"Inert" Ingredients Used in Organic Production

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A Beyond Pesticides Report





he relatively few registered pesticides allowed in organic production are contained in product formulations with so-called "inert" ingredients that are not disclosed on the product label. The "inerts" make up the powder, liquid, granule, or spreader/sticking agents in pesticide formulations. The "inerts" are typically included in products with natural or synthetic active pesticide ingredients recommended by the National Organic Standards Board (NOSB) and listed by the National Organic Program (NOP) on the National List of Allowed and Prohibited Substances. Any of the pesticides that meet the standards of public health and environmental protection and organic compatibility in the Organic Foods Production Act (OFPA) may contain "inert" ingredients. Because the standards of OFPA are different from those used by the U.S. Environmental Protection Agency (EPA) to regulate pesticides and given changes in how the agency categorizes inerts, the NOSB has adopted a series of recommendations since 2010 that established a substance review process as part of the sunset review. NOP has not followed through on the Board's recommendations and, as a result, there are numerous materials in use that have not been subject to OFPA criteria. This report (i) traces the history of the legal requirements for review by the NOSB, (ii) identifies the universe of toxic and nontoxic materials that make of the category of "inerts" used in products permitted in organic production, and (iii) suggests a path forward to ensure NOSB compliance with OFPA and uphold the integrity of the USDA organic label. With this information, the NOSB is being urged through this report to consider the review of "inert" ingredients among its highest priorities, given the widespread exposure to people and the environment, and the availability of alternative green materials.

What is an "Inert" Ingredient?

So-called "inert" ingredients in pesticide products are neither biologically nor chemically inert. Some are quite toxic, and may be "active" ingredients in other products. "Inert" ingredients may also be described as "adjuvants" or "formulants," and the pesticide product may be called a "formulation" or "preparation." "Inerts" are typically not listed on the label, and hence are often called "secret ingredients."

As will be described below, there has been a long history of evaluating –or failing to evaluate– the toxicity and other impacts of "inert" ingredients. Although consumers may assume that the organic food they eat is produced using inputs that are not toxic to humans –and, paradoxically, that does apply to the "active" ingredients in those inputs– the "inert" ingredients may not be so innocuous. See Case Study 1 for an example of one group of "inerts" –nonylphenol ethoxylates– that are allowed for use on food and non-food crops in organic production. Nonylphenol ethoxylates (NPEs) are known endocrine disrupting chemicals and are a high priority for removing from organic production. Case Study 2 describes a former List 2 "inert" that is allowed for use in non-organic food production.



In 1998, the Northwest Coalition for Alternatives to Pesticides (NCAP) published an investigation of "inerts" with toxic properties. NCAP documented a number of toxic "inerts," including the fact that 0.5% of List 1 "inerts" were also active pesticide ingredients, as were 8% of List 2, 68% of List 3, 3% of List 4A, and 20% of List 4B.

Case Study 1. Nonylphenol ethoxylates (NPEs)

Former List 4B as: ethoxylated p-nonylphenol (CAS# 26027-38-3), polyethylene (1,1,3,3-tetramethylbutyl)phenyl ether (CAS# 26 9036-19-5), polyoxyethylene dodecylphenol (CAS# 9014-92-0) and polyoxyethylene nonylphenol (CAS# 27 9016-45-9).

Use: NPEs are widely used to enhance the absorption and efficacy of pesticide ingredients.

Chemical interactions with other substances: NPEs can react with chlorine to form chlorinated alkylphenols.¹ Bacteria help break down NPEs to nonylphenols (NPs) and other more toxic chemicals. In aerobic systems, more carboxylic acid compounds are produced.²

Toxicity and environmental persistence: Breakdown products, especially NPs are much more toxic than NPEs;^{3,4} and are also estrogenic.^{11,5} EPA rates persistence medium to high; degradation products persistent and toxic.⁶

Environmental impacts from its use or manufacture: Bacteria help break down NPEs to nonylphenols (NPs) and other more toxic chemicals. In aerobic systems, more carboxylic acid compounds are produced.⁷ The lowest concentration of NPE

¹ A. Michael Warhurst, 1995. An Environmental Assessment of Alkylphenol Ethoxylates and Alkylphenols, Friends of the Earth, UK.

² P. Whitehouse, 2002. Environmental Impacts of Alkylphenol Ethoxylates and Carboxylates. Part 1: Proposals for the Development of Environmental Quality Standards. R&D Technical Report P2-115/TR3. Environment Agency, Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol BS32 4UD.

³ EPA, 2011. DfE Alternatives Assessment for Nonylphenol Ethoxylates.

⁴ Andrea Lani, 2010. Basis Statement for Chapter 883, Designation of the Chemical Class Nonylphenol and Nonylphenol Ethoxylates as a Priority Chemical and Safer Chemicals Program Support Document for the Designation as a Priority Chemical of Nonylphenol and Nonylphenol Ethoxylates, Bureau of Remediation and Waste Management, Maine Department of Environmental Protection.

⁵ Mark R. Servos, 1999. Review of the Aquatic Toxicity, Estrogenic Responses.

and Bioaccumulation of Alkylphenols and Alkylphenol Polyethoxylates, Water Qual. Res. I. Canada, Volume 34, No. 1, 123-177. A support document for Environment Canada's environmental assessment under the Canadian Environmental Protection Act.

⁶ EPA, 2011. DfE Alternatives Assessment for Nonylphenol Ethoxylates.

⁷ P. Whitehouse, 2002. Environmental Impacts of Alkylphenol Ethoxylates and Carboxylates. Part 1: Proposals for the Development of Environmental Quality Standards. R&D Technical Report P2-115/TR3. Environment Agency, Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol BS32 4UD.



found to inhibit growth of young terrestrial and aquatic plants or trees was 10 ug/L. NPEs are rapidly taken up by plants and metabolized to polar metabolites. Concentrations of 20-500 mg/L inhibited or restricted growth of soil bacteria.⁸ Breakdown products, especially NPs are much more toxic than NPEs;^{9,10} also estrogenic.¹¹

Effects on human health: NPs and NPEs act as xenoestrogens in human cells.¹²

Effects on soil organisms, crops, or livestock: Because they improve wetting, penetration, absorption, and water solubility characteristics, surfactants are used in formulations of foliar-applied agrochemicals as stabilizing, emulsifying, and dispersing agents. The lowest concentration of APE found to inhibit growth of young terrestrial and aquatic plants or trees was 10 ug/L. NPEs are rapidly taken up by plants and metabolized to polar metabolites. Concentrations of 20-500 mg/L inhibited or restricted growth of soil bacteria.¹³

Case Study 2. Methyl Isobutyl Ketone (MIBK)

Former List 2, Methyl isobutyl ketone is also known as isobutyl methyl ketone, 4methyl 2-pentanone, MIBK, CAS number 108-10-1. Despite the toxic effects noted below, MIBK has an exemption from tolerance,¹⁴ so there is no limitation on the amount that may be found in food. An exemption from tolerance is not the same as an exemption from registration as a pesticide. Under Section 25(b) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), a substance that is used as a pesticide (or an "inert" in a pesticide product) may be exempted from the requirement of registration if EPA decides that it poses little to no risk to human

⁸ Sylvia S. Talmage, 1994. Environmental And Human Safety Of Major Surfactants: Alcohol Ethoxylates and Alkylphenol Ethoxylates, A report to The Soap and Detergent Association, Lewis Publishers: Boca Raton, Ann Arbor, London, Tokyo. Pp. 288-289.

⁹ EPA, 2011. DfE Alternatives Assessment for Nonylphenol Ethoxylates

¹⁰ Andrea Lani, 2010. Basis Statement for Chapter 883, Designation of the Chemical Class Nonylphenol and Nonylphenol Ethoxylates as a Priority Chemical and Safer Chemicals Program Support Document for the Designation as a Priority Chemical of Nonylphenol and Nonylphenol Ethoxylates, Bureau of Remediation and Waste Management, Maine Department of Environmental Protection.

¹¹ Mark R. Servos, 1999. Review of the Aquatic Toxicity, Estrogenic Responses and Bioaccumulation of Alkylphenols and Alkylphenol Polyethoxylates, Water Qual. Res. I. Canada,Volume 34, No. 1, 123-177. A support document for Environment Canada's environmental assessment under the Canadian Environmental Protection Act.

¹² Mark R. Servos, 1999. Review of the Aquatic Toxicity, Estrogenic Responses and Bioaccumulation of Alkylphenols and Alkylphenol Polyethoxylates, Water Qual. Res. I. Canada,Volume 34, No. 1, 123-177. A support document for Environment Canada's environmental assessment under the Canadian Environmental Protection Act.

¹³ Sylvia S. Talmage, 1994. Environmental And Human Safety Of Major Surfactants: Alcohol Ethoxylates and Alkylphenol Ethoxylates, A report to The Soap and Detergent Association, Lewis Publishers: Boca Raton, Ann Arbor, London, Tokyo. Pp. 288-289.

¹⁴ EPA Inert Finder: Methyl Isobutyl Ketone.

http://iaspub.epa.gov/apex/pesticides/f?p=INERTFINDER:3:::NO::P3 ID:6044 Accessed 12/30/2015.



health or the environment. However, that chemical may require a tolerance. If EPA finds that a pesticide ingredient the chemical is "considered to be safe enough for the use described in the tolerance exemption that a maximum level does not need to be established," then it may be granted an exemption from the requirement of tolerance.¹⁵

Use: MIBK is used as a solvent or cosolvent in pesticide products.

Chemical interactions with other substances: In 1999, EPA denied a petition to exclude MIBK from the Toxics Release Inventory because, like other volatile organic chemicals, MIBK contributes to tropospheric ozone.¹⁶

Environmental persistence: Methyl isobutyl ketone is a colorless, flammable liquid that is moderately soluble in water.¹⁷ If released to air, MIBK will exist as a vapor in the atmosphere and will be degraded by reaction with photochemically-produced hydroxyl radicals, with a half-life of 27 hours. The half-life for direct photolysis of MIBK in the atmosphere is 15 hours. MIBK is expected to have high soil mobility. MIBK may volatilize from wet and dry soil surfaces. Biodegradation is also an important environmental fate process. If released into water, MIBK is not expected to adsorb to suspended solids and sediment. MIBK is expected to biodegrade in seawater and fresh water in both aerobic and anaerobic conditions. Estimated volatilization half-lives for a model river and model lake are 9 hours and 6 days, respectively. An estimated BCF of 2 suggests the potential for bioconcentration in aquatic organisms is low. Hydrolysis is not expected to be important since MIBK lacks functional groups that hydrolyze under environmental conditions.¹⁸

Environmental and health impacts from its use or manufacture: More than 60 percent of MIBK production comes from a three-step process in which acetone undergoes alkali-catalyzed condensation to form diacetone alcohol, which is dehydrated to mesityl oxide. Selective hydrogenation of the carbon-carbon double bond in mesityl oxide gives MIBK. MIBK may also be produced from isopropanol in a mixed ketones process, with diisobutyl ketone and acetone as co-products.¹⁹ The most likely exposures in the workplace are by inhalation of the vapors and by skin

¹⁵ See <u>http://www.epa.gov/minimum-risk-pesticides/need-tolerances-and-tolerance-exemptions-minimum-risk-pesticides and http://www.epa.gov/minimum-risk-pesticides/minimum-risk-pesticide-definition-and-product-confirmation.</u>

¹⁶ <u>http://www.epa.gov/toxics-release-inventory-tri-program/methyl-isobutyl-ketone-petition</u>. Accessed 12/30/2015.

¹⁷ PubChem: 4-Methylpentan-2-one. <u>https://pubchem.ncbi.nlm.nih.gov/compound/4-Methyl-2-pentanone</u>. Accessed 12/30/2015.

¹⁸ ToxNet. Hazardous Substances Database (HSDB), Methyl Isobutyl Ketone. <u>http://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~5Ol4VG:2</u>.

¹⁹ PubChem: 4-Methylpentan-2-one. <u>https://pubchem.ncbi.nlm.nih.gov/compound/4-Methyl-2-pentanone</u>. Accessed 12/30/2015.



and eye contact. Occupational exposure to methyl isobutyl ketone may occur through inhalation and dermal contact with this compound at workplaces where methyl isobutyl ketone is produced or used. "Monitoring data indicate that the general population may be exposed to methyl isobutyl ketone via inhalation of ambient air, ingestion of food and drinking water, and dermal contact with this compound and other consumer products containing methyl isobutyl ketone."²⁰

Effects on human health:

Acute Effects:

Irritating to eyes and mucous membranes: exposure may cause weakness, headache, nausea, lightheadedness, vomiting, dizziness, incoordination, narcosis in humans. Low acute toxicity by inhalation or dermal exposure and moderate acute toxicity by ingestion.

Chronic Effects (Non-cancer):

Chronic occupational exposure has been observed to cause nausea, headache, burning in the eyes, weakness, insomnia, intestinal pain, and slight enlargement of the liver in humans.

Lethargy and increased kidney and liver weights have been observed in rats chronically exposed by gavage, ingestion, and inhalation.

Reproductive/Developmental Effects:

Maternal toxicity and neurological effects and increased liver and kidney weights in fetuses were observed in rats and mice exposed to methyl isobutyl ketone by inhalation.²¹

Cancer Risk:

The International Agency for Research on Cancer (IARC) found:²² There is sufficient evidence in experimental animals for the carcinogenicity of methyl isobutyl ketone. Methyl isobutyl ketone is possibly carcinogenic to humans (Group 2B).

Effects on nontarget organisms, crops, or livestock:

The body weight and length was significantly reduced in fathead minnows exposed to 105 mg/L or more MIBK. The mortality of the fish was significantly increased at 418 mg/L.

²⁰ ToxNet. Hazardous Substances Database (HSDB), Methyl Isobutyl Ketone. <u>http://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~5Ol4VG:2</u>.

 ²¹ EPA, 2000. Methyl Isobutyl Ketone Hazard Summary. <u>http://www3.epa.gov/airtoxics/hlthef/methyl-k.html</u>.
²² IARC, 2013. Methyl Isobutyl Ketone, IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Vol. 101, pp. 305-324. <u>http://monographs.iarc.fr/ENG/Monographs/vol101/mono101.pdf</u>.



Aquatic invertebrates are less sensitive than fish to the toxicity of MIBK.

The 8-day threshold for toxicity is 725 mg/L in the green alga Scenedesmus quadricauda, and 136 mg/L in the relatively more sensitive cyanobacterium (blue-green alga) Microcystis aeruginosa.²³

Context: "Inert" Ingredients in Pesticide Products

Federal Insecticide, Fungicide, and Rodenticide Act

The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), which governs the registration and use of pesticides, defines an "inert ingredient" as "an ingredient which is not active." An active ingredient is one that "will prevent, destroy, repel, or mitigate any pest." An "inert" is a substance other than an active ingredient that is intentionally included in a pesticide product – for example, emulsifiers, solvents, carriers, aerosol propellants, dyes, and fragrance. Many "inerts" are used to enhance the action of the "active" ingredients, but some –like dyes and fragrances—may be added the formulation as a warning or to make the product more acceptable.

"Inerts" are not inert.

The "inerts" that are added to improve the action of the active ingredients may be considered synergists. In addition, many "inerts" are toxic by themselves, and may be active ingredients in other products. Most of the tests performed to assess the safety of pesticides are performed on the active ingredients alone, so the impacts of the product are generally unknown. As summarized by Caroline Cox and Michael Surgan, PhD, "Inert ingredients can increase the ability of pesticide formulations to affect significant toxicologic end points, including developmental neurotoxicity, genotoxicity, and disruption of hormone function. They can also increase exposure by increasing dermal absorption, decreasing the efficacy of protective clothing, and increasing environmental mobility and persistence. Inert ingredients can increase the phytotoxicity of pesticide formulations as well as the toxicity to fish, amphibians, and microorganisms."²⁴

Secrecy and "inerts"

In general, "inert" ingredients are not listed by name on pesticide labels. There is generally a categorical statement of the percentage of "inert" or "other" ingredients. The exceptions are the most toxic (former List 1) and those products allowed under Section 25(b) of FIFRA –

²³ ToxNet. Hazardous Substances Database (HSDB), Methyl Isobutyl Ketone. <u>http://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~5Ol4VG:2</u>.

²⁴ Cox, C., & Surgan, M. (2006). Unidentified inert ingredients in pesticides: implications for human and environmental health. Environmental health perspectives, 1803-1806.



minimum risk pesticides. These are pesticides that "have been determined to be of a character not requiring regulation under FIFRA, and are therefore exempt from all provisions of FIFRA when intended for use, and used, only in the manner specified."²⁵ All ingredients, including "inert" ingredients, used in minimum risk pesticide products must be listed on the label.

The secrecy of "inerts" has been claimed to be necessary to protect trade secrets or confidential business information, but the courts have found that not all such information is legally confidential.

Table 1. Inerts Timeline

1961	USDA decided that all components of a pesticide were "pesticide chemicals"
	requiring a tolerance or exemption from tolerance.
1969	FDA policy establishing data requirements and review procedures for "inerts."
1970	EPA took over pesticide registration, tolerances, and exemptions from tolerance.
1984	EPA confirms the requirement to list carbon tetrachloride, petroleum distillates,
	methanol, and sodium nitrite on labels. EPA requires acute toxicity testing for
	pesticide formulations.
1987	Lists 1 and 2, "inerts of toxicological concern" and "potentially toxic inerts/high
	priority for testing," are published. EPA requires that List 1 "inerts" be identified on
	product labels and announces that additional data will be required to support
	continued registration of products containing List 1 "inerts." Subsequently, most List
	1 "inerts" disappeared from pesticide products.
1989	EPA divides List 4 ("inerts of minimal concern") into Lists 4A ("ingredients believed
	to present minimal risk") and 4B (those for which EPA has "sufficient information to
	conclude that their current use patterns will not adversely affect public health and
	the environment").
1994	EPA publishes List 4A.
1995	EPA publishes List 4B and List 3 ("inerts of unknown toxicity"), which contained the
	majority of "inerts."
1996	A legal victory in 1996 by NCAP and NCAMP/Beyond Pesticides showed that
	manufacturers can reverse engineer their competitors' products and that "inerts"
	do not fall under the FOIA exemption for trade secrets unless in a specific case,
	manufacturers are able to prove that competitive harm will result from the release
	of the information.
1998	NCAP and others submit a rulemaking petition to EPA asking the agency to require
	that all pesticide ingredients be identified on product labels. A parallel petition was
	submitted by the attorneys general from seven states and the territory of Guam.
2001	EPA denies petitions of NCAP et al and AGs.
2002	Court upholds EPA denial of petitions.

²⁵ 40 CFR §152.25.



2006	Petitions from NGOs and AGs to list on label "inerts" identified elsewhere as
	hazardous.
	EPA completes the reassessment of "inerts" required by the FQPA. In view of the
	reliance of the National Organic Program (NOP) on List 4A and 4B, EPA notified the
	NOP of the revocation of tolerances of some List 4 "inerts."
2009	EPA published ANPR on options for "inerts" disclosure.
2014	CEH, BP, and PSR file complaint for unreasonable delay. EPA retracts 2009 ANPR,
	saying it will not deal with "inerts" disclosure through rulemaking.
2015	CEH, BP, and PSR file a suit seeking review of EPA's amended response to the
	petition for rulemaking. The court approves a schedule for briefings and scheduled a
	hearing for cross-motions for summary judgment on May 11, 2016.
2016	Judge rules in CEH et al. v. Gina McCarthy (EPA) that EPA has no responsibility under
	federal pesticide law to complete rulemaking on the disclosure of hazardous
	ingredients in pesticide products.
	EPA banned 72 of the "inert" ingredients of the 371 petitioned for disclosure.

No more lists

The Food Quality Protection Act of 1996 (FQPA) required the reassessment of existing "inert" ingredient tolerances and tolerance exemptions. EPA now assesses "inerts" based on a much larger set of data.²⁶ EPA completed the reassessment of "inerts" in 2006, and with that action, discontinued the updating and use of the "inerts" lists. Completed "inert" ingredient tolerance reassessment decision documents are available on EPA's Tolerance Reassessment Decision Document website.²⁷ In view of the reliance of the National Organic Program (NOP) on Lists 4A and 4B, EPA notified the NOP of the revocation of tolerances of some List 4 "inerts."²⁸

Why "inerts" are important

The largest part of a pesticide formulation generally consists of "inert" ingredients –often more than 90%. People may be exposed to these chemicals through their own use of pesticides, use on food they eat, their neighbors' use, or use in public or work places. Since "active" ingredients are identified on the label, people can get information about the impacts of those chemicals on themselves, their children, their pets, and the environment. However, informed decision making at the personal and community levels requires information about all the ingredients in a pesticide product. The "inerts" that are required to be disclosed are the most toxic –which have been mostly phased out by manufacturers– and the least toxic, in products

²⁶ For more information on EPA's current assessment of "inerts," see <u>http://www.epa.gov/pesticide-registration/inert-ingredients-overview-and-guidance</u>.

²⁷ Tolerance Reassessment Decision Document <u>http://www.epa.gov/ingredients-used-pesticide-products/inert-ingredients-reassessment-decision-documents</u>.

²⁸ See NOP Guidance 5008, July 22, 2011. Guidance: Reassessed Inert Ingredients. <u>http://www.ams.usda.gov/sites/default/files/media/5008.pdf</u>.



that do not need to be registered. Most "inert" ingredients fell in the former List 3, "inerts of unknown toxicity," which, along with those formerly on Lists 2, and 4B, (and some on 4A) are not listed on pesticide labels. While these have been assessed for the purpose of tolerance setting, many are known to be toxic. Many are still also used as "active" ingredients in other pesticide products.

"Inert" Ingredients in Organic Production

Organic Foods Production Act (OFPA)

The Organic Foods Production Act of 1990 (OFPA) requires that, with the exception of materials exempt by listing on the National List of Allowed and Prohibited Substances, organic products must be produced without the use of synthetic substances. Section 6517(c)(1)(B)(ii) of OFPA allows the exemption of "synthetic inert ingredients that are not classified by the Administrator of the Environmental Protection Agency (EPA) as inerts of toxicological concern." Like all other exemptions of synthetic materials, "inerts" may be allowed only if the specific exemption is developed according to procedures described in §6517(d), which requires review by the National Organic Standards Board (NOSB). Sections 6518(I) and (m) describe requirements for the review of National List materials, including a requirement to "work with manufacturers of substances considered for inclusion in the proposed National List to obtain a complete list of ingredients and determine whether such substances contain inert materials that are synthetically produced."

As is evident from the history above, when OFPA was passed, only the most toxic of the "inert" ingredients had been made public. Thus, the authors of OFPA needed to make provision for the review of "inerts" when their identities did become available. The Senate Report clarifies this:

Organic farmers also use substances in which the active ingredient is known to be natural but which also contain inert ingredients that are undisclosed as a matter of trade secret law under the Federal Insecticide Fungicide Rodenticide Act. The Committee suspects that many of these inert ingredients are synthetic. For example, adjuvants would fall into this-category.

Until such time as FIFRA is altered to require the full disclosure of inert ingredients, organic farmers should be allowed to continue using compounded substances if the active ingredient is natural and if use of the substance is recommended by the National Organic Standards Board and approved by the Secretary for inclusion on the National List. However, in order for the National Organic Standards Board to evaluate whether certain compounds should be listed, the Board will need some information about the inert ingredients in question. The Committee directs the Board to seek the advice of the Administrator of the EPA, who has information on inert ingredients submitted as part of registration, as to whether such inert material would be appropriate for organic production. EPA's response will not limit its regulatory responsibility for such material.



NOSB efforts regarding "inerts"

Thus, decisions regarding which "inerts" could be used in organic production became the responsibility of the NOSB. Like EPA, the NOSB found "inerts" to be a secondary issue, next to the problem of evaluating the many active substances that had been used in organic production prior to the passage of OFPA. The issue of the review of "inerts" has continued to come up on a regular basis. In fact, there is scarcely a year in which the NOSB has not addressed "inerts." (See Table 2: Timeline of NOSB Actions on "Inerts.")

A series of discussion papers culminated in NOSB recommendations establishing a baseline position and procedures for implementing it. The baseline position adopted in 2010 is, "The NOSB needs to review all inert ingredient components used in current NOP compliant pesticide formulations for consideration for inclusion on the National List." In 2012 and 2014, the NOSB outlined a procedure for evaluating the "inerts" used in organic production in classes of related chemicals with the assistance of EPA's Design for the Environment (DfE –now Safer Choice) program.

1992	First NOSB appointed.
1995	NOSB says it will review "inerts" after the National List is published in the Federal
	Register and passes the resolution, "Inerts on the EPA List 4 are considered
	generally recognized as safe and will be accepted for organic production, <u>unless</u> an
	NOSB evaluation finds a specific List 4 inert to be unacceptable. Inerts proposed for
	organic production on EPA's List 2 which are potentially toxic and List 3 which are
	unknown will be compiled by the NOSB and forwarded to the EPA as materials for
	fast-track review and possible reclassification. List 1 inerts are prohibited by the
	OFPA."
1997	First proposed rule would have allowed all but List 1 "inerts."
1999	NOSB recommends allowing List 4 and prohibiting all others, with the exception of
	particular List 3 "inerts" approved on a case-by-case basis.
2000	Following the NOSB recommendation, the final rule allowed "inerts" on Lists 4A and
	4B.
2002	NOSB votes to allow the use of List 3 "inerts" in passive pheromone dispensers and
	to temporarily allow List 3 "inerts" while under review.
2004	NOSB and the public objected to a directive by the NOP that allowed the use of
	pesticides containing undisclosed "inerts," including those on Lists 2 and 3.
2006	EPA tells USDA that it had completed the review mandated by FQPA and would no
	longer be maintaining the "inerts" lists on which the NOP regulations depended.
2007	NOSB relists List 3 "inerts," limiting the renewal to those identified as List 3 by
	October 9, 2007 and says, "Future petitions to add, remove or renew an inert
	ingredient to the National List will need to reference a specific inert ingredient."
2008	NOSB discussion document on "inerts" options.
2009	Another NOSB discussion document on "inerts."

Figure 2. Timeline of NOSB Actions on "Inerts"



2010	Spring: NOSB establishes the baseline position, "The NOSB needs to review all inert ingredient components used in current NOP compliant pesticide formulations for
	consideration for inclusion on the National List " The 2010 recommendation also
	recommended six steps to accomplish the changes in regulation
	Inerts Working Group (IWG) is established
	Fall: NOSB votes to re-list List 4, with a minority opinion stressing the importance of
	moving ahead with NOSB review. The summary of the recommendation stated that
	the relisting was "pending review by the program of inerts individually and as a class
	of materials."
2011	IWG, through the Crops Subcommittee, submits a discussion document that
	presents some initial considerations and some proposals.
2012	Spring: NOSB recommends an expiration date of October 21, 2017 for List 3 "inerts"
	in passive pheromone dispensers, to coincide with the sunset date for List 4
	"inerts." The NOP refused to codify the recommendation.
	Fall: NOSB follows up on the IWG's 2011 discussion document by unanimously
	recommending a changed annotation and a plan of action. NOSB proposes to review
	of "inerts" by classes.
2013	In its response to the fall 2012 NOSB meeting, the NOP said it intends to conduct a
	public notification and comment process, including notification to the public of
	"inert" ingredients known to be used in organic production and NOSB's review plan,
	and a request for public comments regarding any other "inert" ingredients currently
	used in organic production that are not identified in the list provided by the NOP. It
	said that changes to the National List would be considered after NOSB completion
	of "inerts" review.
	Spring: NOP reiterates its intentions as stated in its response to the fall 2012
	meeting and said that a Federal Register notice to this effect was in review.
2014	Spring: NOP update describes meetings with EPA Design for the Environment (DfE)
	program and suggests the possibility of cooperating with DfE on "inerts."
	Fall: NOP reports that since the spring meeting: Office of General Counsel (OGC)
	reviewed the concept of collaborating with EPA; NOP provided more background to
	DfE; and NOP has been planning for interagency meetings. NOP sees next steps: (1)
	NOP and EPA meet further to develop plans for collaboration; (2) NOP consults with
	NOSB on options; and (3) public notice will be given via Federal Register.
2015	Spring: NOP provides a TR for one category of List 4 inerts –nonylphenol ethoxylates
	(NPEs). NOP and DfE (now Safer Choice) presentations. NOP outlined "next steps":
	(1) NOSB reviews Safer Choice to consider referring to it for "inerts" review, (2)
	NOSB reviews current List 4 reference as part of 2017 sunset review, (3) NOSB and
	IWG may draft alternate language proposal to replace current references to List 4
	and List 3-for fall 2015 meeting, (4) NOSB reviews EPA Safer Choice Criteria, and
	compares to OFPA criteria.
	Fall: NOSB passes an annotation to the List 4 listing on the National List that allows:
	(i) substances permitted for use in minimal risk products, (ii) substances included on
	the EPA's Safer Chemical Ingredients List, (iii) "inert" ingredients that are exempt



	from the requirement of a tolerance for use only in passive pheromone dispensers,
	and (iv) other inerts individually petitioned and reviewed.
2016	Spring: Crops Subcommittee presents a discussion document on a proposal to
	prohibit use of NPEs.
	Fall: Saying that the listing will be superseded by the annotation change approved at
	the Fall 2015 meeting, the NOSB votes to relist List 3 "inerts." No further action on
	NPEs.

However, the recommendation passed in the fall of 2015 broke from the long-held principle that the NOSB should review all "inerts." It is inconsistent with all previous NOSB recommendations and inconsistent with the spring 2015 descriptions by NOP and EPA of how the review process would work. See Table 4 for a summary of the differences between the use of the Safer Chemical Ingredients List (SCIL) as described in spring 2015 and as recommended by the NOSB in fall 2015.

Spring 201E Description NOD and EDA	Fall 201E NOSE Recommendation
Spring 2015 Description –NOP and EPA	Fail 2015 NOSB Recommendation
NOSB decides what "inerts" are allowed.	EPA decides what "inerts" are allowed.
NOSB uses EPA reviews and applies	EPA uses SCIL criteria; NOSB can address gaps
additional OFPA criteria.	in periodic review of SCIL.
Allowable "inerts" are on National List.	Allowable "inerts" are on EPA's Safer
	Chemical Ingredient List (SCIL).
Allowable "inerts" might be listed on a sublist	Any substance on any of the SCIL sublists is
of the SCIL, "Inert ingredients for use in	an "inert" allowable for use in organic
pesticides in organic production," which	production,
would start with 126 known to be used in	
organic production with additions by	
petition.	
Allows only "inerts" formerly on List 4A or 4B,	Materials on SCIL include active ingredients
a few on List 3, or petitioned.	like antimicrobials and industrial chemicals.
"Inerts" are subject to sunset review.	The NOSB "may" review the SCIL.
There is a process, subject to public notice	There is no process for the public to initiate
and comment, for adding and removing	additions or subtractions, and no public
"inerts" from the National List.	comment process.

Table 3. Comparison of Safer Chemical and NOSB Approach

OFPA review of actives and "inerts"

A synthetic material may be used in organic production only after a review and recommendation by the NOSB based on three criteria, that the substance

(i) would not be harmful to human health or the environment;

(ii) is necessary to the production or handling of the agricultural product because of the unavailability of wholly natural substitute products; and



(iii) is consistent with organic farming and handling;²⁹

So far these criteria have been applied only to those ingredients in pesticide products that are identified as "active," and not to "inert" ingredients. As a result, the most toxic ingredients in pesticide products used in organic production may be the "inerts." Since the "inerts" frequently make up 90% or more of a pesticide product, the failure of the NOSB to review them results in the allowance of products that are more toxic than believed by organic consumers.

Comparison of toxicity of "inerts" and "actives" in organic

There is a relatively short list of synthetic active ingredients allowed to be used in pesticides in organic production. In addition, natural active ingredients are also permitted. Table 4 lists the synthetic pesticides permitted for use in organic crop and livestock production. Table 5 lists the synthetic "inert" ingredients <u>known to be used</u> in organic production.³⁰ See Appendix 1 for Lists 4A and 4B –all the "inerts" <u>allowed for use</u> in organic production.

While there are concerns about some of the active ingredients used in organic production –for example, we have concerns about cradle-to-grave impacts of chlorine materials, and copperbased materials may have detrimental impacts on soil organisms– there are many more issues with the allowed "inert" ingredients.

The endocrine-disrupting nonylphenol ethoxylates examined above are in the class "alkylphenol ethoxylates" in Table 5. Here are a few of the hazards associated with some other "inerts" known to be used in organic production:

 EDTA and its salts, Ethylenediaminetetraacetic acid (EDTA) (CAS# 60-00-4) and Ethylenediaminetetraacetic acid (EDTA), tetrasodium (CAS# 64-02-8): EDTA is a chelating agent whose affinity for alkaline-earth ions (for example, calcium and magnesium) and heavy-metal ions (for example, lead and mercury) generally results in the formation of highly stable and soluble complexes. When released to soil, EDTA causes an increase in the total solubility of the metals. The toxic effects of EDTA are mostly related to metal deficiencies, especially a deficiency of zinc. Studies show it to affect inhibition of DNA synthesis and enhance mutagen-induced aberration frequencies by interfering with the DNA repair process that takes place after exposure to mutagens.³¹

²⁹ OFPA §6517(c)(1)(A)

³⁰ Johanna Mirenda, Technical Director of OMRI, explained at the Fall 2015 meeting (p. 603 of transcript): "In 2011, OMRI was asked by the NOP to provide a list of inert ingredients in OMRI listed pesticides for use by the Inerts Working Group. We provided a non-confidential list of inerts included in OMRI listed products without associating them with any specific products."

³¹ EPA Office of Prevention, Pesticides, and Toxic Substances, 2004. Memo from Betty Shackleford, Registration Division, to Peter Caulkins, Special Review and Registration Division concerning Lower Toxicity Pesticide Chemical Focus Group Decision Document for ethylenediaminetetraacetic acid (EDTA) and its salts. http://www.epa.gov/opprd001/inerts/edta.pdf



- Butylated hydroxytoluene (BHT) (CAS# 128-37-0) preservative/antioxidant: The dispenser products in which it is used have undergone expedited review by the Environmental Protection Agency and therefore the mammalian toxicity, ecological effects, and environmental fate and groundwater data have for the most part been waived. Therefore, little environmental information is available on the effects of using BHT as an "inert" to terrestrial invertebrates or aquatic invertebrates and vertebrates.³² BHT is considered irritating to the eyes, respiratory system, and skin under European classification. Allergic contact dermatitis and contact urticaria are associated with exposure. It is currently listed as "unclassifiable" in regard to its carcinogenicity in humans (due to limited human test data), however a variety of in vitro and animal studies have shown it to have carcinogenic, tumorigenic, mutagenic, and teratogenic effects in animals as well as in human. Studies have also confirmed BHT to have estrogenic activity, and chronic exposure to BHT may cause reproductive and fetal effects.³³
- 2-Hydroxy-4-n-octyloxybenzophenone (methanone) (CAS # 1843-05-6) UV absorber: Ciba submitted three substantial risk reports under TSCA for sensitization.³⁴ Related compounds in the benzophenone family have been shown to form estrogenic photoproducts, upon exposure to UV or sunlight.³⁵ EPA has added methanone to its TSCA Workplan for Chemical Assessments based on its acute and chronic aquatic toxicity.³⁶

Tables 5 and 6 contain lists of active and "inert" ingredients in pesticides known to be used in organic crop and livestock production, respectively, checked against some toxicity screens –the Beyond Pesticides Gateway, Pesticide Action Network North America, Hazardous Substances Database, and EPA's Ecotox database. A summary is presented in Table 4. There is little information in these databases regarding many "inerts." Nevertheless, we can form some conclusions:

- There are many more synthetic substances used as "inert" ingredients in pesticides in organic production (127) than as active ingredients (39).
- "Inerts" do not differ very much from actives in the range of effects seen.
- In spite of the more complete information available in these databases regarding active ingredients, there are more "inert" chemicals used in organic production known to have almost every type of toxic impact.

³³ Safety Review of Checkmate Chemicals, by Don't Spray California.

http://www.dontspraycalifornia.org/Safety%20of%20Checkmate%20Chemicals%202-06-08.pdf

³⁴ Submitted under TSCA section 8(e): <u>http://java.epa.gov/chemview?tf=0&ch=1843-05-6&su=2-5-6-7&as=3-10-9-8&ac=1-16-6378999&ma=4-11-</u>

 $\underline{1981377\&tds=0\&tdl=10\&tas1=1\&tas2=asc\&tas3=undefined\&tss=\&modal=detail\&modalId=314006\&modalSrc=5.$

³⁵ Safety Review of Checkmate Chemicals, by Don't Spray California.

http://www.dontspraycalifornia.org/Safety%20of%20Checkmate%20Chemicals%202-06-08.pdf.

³² TAP review of BHT (lines 348-351).

³⁶ <u>http://op.bna.com.s3.amazonaws.com/env.nsf/r%3FOpen%3dprio-9q6tx4.</u>



• Of the "inerts" about which information is available, some present serious problems and others appear to be fairly harmless.

Table 4. Total Number of Active and Inert Ingredients Allowed in Organic Production by Categories of Harm

	Acute toxicity	Neurotoxic	Carcinogenic	Developmental / Reproductive	Kidney/Liver Damage	Sensitizer	Endocrine Disruption	Soil Mobility	Toxic to Birds	Aquatic toxicity	Toxic to bees
Number of actives	8	1	2	6	2	8	1	1	1	19	5
Number of "inerts"	20	4	4	5	4	15	4	1	0	65	4

Table 5. Synthetic Active Pesticide Ingredients Allowed in Organic Crop and Livestock Production³⁷ by Categories of Harm

	Acute toxicity	Neurotoxic	Carcinogenic	Developmental / Reproductive	Kidney/Liver Damage	Sensitizer	Endocrine Disruption	Soil Mobility	Toxic to Birds	Aquatic toxicity	Toxic to bees
Ethanol			x* ³⁸	х*						х+	
Isopropanol		х								х	
Ammonium carbonate											
Aqueous potassium											
silicate											
Boric acid				х		х					
Chlorhexidine	х					х					
Chlorine materials:	х			х		х				х	
calcium hypochionite,											
bypachlarita											
Copper suitate				х	Х	Х			Х	Х	
Coppers, fixed: copper							х			Х	
hydroxide, copper											

³⁷ Pesticidal materials only, from organic regulations at §205.601 and §205.603.

³⁸ Databases distinguish ethanol in alcoholic beverages (*) from other uses (+).



oxide, copper											
oxychloride											
Elemental sulfur						х		х			
Ethylene gas	х			х						х	
Ferric phosphate											
Formic acid	х				х	х				х	
Herbicides, soap-based										х	
Hydrated lime	х									х	
Hydrogen peroxide						х				х	
Iodine	х									х	
Lime sulfur										х	х
Mineral oil										х	х
Oils, horticultural			х								х
Ozone gas	х			х		х				х	
Fenbendazole	N/A*	N/A									
Ivermectin										х	
Moxidectin	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Peroxyacetic/peracetic	х									х	
acid											
Pheromones											
Phosphoric acid										х	
Potassium bicarbonate										х	
Soap-based										х	
algicide/demossers.											
Soaps, ammonium											х
Soaps, insecticidal											х
Sodium carbonate											
peroxyhydrate											
Sticky traps/barriers											
Sucrose octanoate											
esters											
Vitamin D ₃											
Number of actives	8	1	2	6	2	8	1	1	1	19	5

*N/A = Information not available from databases.

Table 6. "Inert" Ingredients Known to be Used in Organic Production



	Acute toxicity	Neurotoxic	Carcinogenic	Dev/Repro	Kidney/Liver Dama <i>g</i> e	Sensitizer	Endocrine Disruption	Soil Mobility	Toxic to Birds	Aquatic toxicity	Toxic to bees
Alkyl alcohols											
Hexanol (CAS# 111-27-3)										х	
1-Butanol (CAS# 71-36-3)		х								х	
Ethanol (CAS# 64-17-5)			x* ³⁹	х*						x+	
Alkyl alkoxylates											
Alcohols, C11-15-secondary,	х									х	
ethoxylated (CAS# 68131-40-8)											
Alcohols, C12-15, ethoxylated										х	
propoxylated (CAS# 68551-13-3)											
Alcohols, C12-18, ethoxylated											
propoxylated (CAS# 69227-21-0)											
Alcohols, C9-16, ethoxylated (CAS#	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
97043-91-9)	*										
Poly(oxy-1,2-ethanediyl),.alpha hydroomegahydroxy-, mono-C11- 14-isoalkyl ethers, C13-rich, phosphates (CAS# 78330-24-2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Polyoxyethylene 2,6,8-trimethyl-4-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Polyoxyethylene dodecyl mono ether (CAS# 9002-92-0)	x									x	
Polyoxyethylene mono(cis-9- octadecenyl) (CAS# 9004-98-2)										x	
Alkylphenol ethoxylates											
p- Nonylphenol, ethoxylated (CAS# 26027-38-3)				x		x	x			х	
Polyoxyethylene (1,1,3,3- tetramethylbutyl)phenyl ether (CAS# 9036-19-5)							x			x	
Polyoxyethylene dodecylphenol (CAS# 9014-92-0)											
Polyoxyethylene nonylphenol (CAS# 9016-45-9)				x			x			x	
Dyes											
Copper phthalocyanine blue (CAS# 147-14-8)											
FD&C Red No. 40 (CAS# 25956-17-6)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

³⁹ Databases distinguish ethanol in alcoholic beverages (*) from other uses (+).



EDTA and salts											
Ethylenediaminetetraacetic acid				х		х				х	
(EDTA) (CAS# 60-00-4)											
Ethylenediaminetetraacetic acid				х		х				х	
(EDTA), tetrasodium (CAS# 64-02-8)											
Fatty acid ethoxylates											
Polyoxyethylene monolaurate (CAS# 9004-81-3)	N/A										
Polyoxyethylene monooctadecyl ether (CAS# 9005-00-9)										х	
Polyoxyethylene monooleate (CAS#											
Polyoxyethylene monostearate (CAS# 9004-99-3)										х	
Fatty acids, esters and salts											
Fatty acids, C16-18 & C18-unsatd., Me esters (CAS# 67762-38-3)	N/A										
Fatty acids, C16-18 and C18-unsatd (CAS# 67701-08-0)	N/A										
Methyl oleate (CAS# 112-62-9)											
Polyglyceryl Phthalate Ester of Coconut Oil Fatty Acid (CAS# 66070- 87-9)	N/A										
Potassium coconut oil soap (CAS# 61789-30-8)											x
Potassium salts of fatty acids (C8-18 and C18 unsatd.) (CAS# 67701-09-1)											х
Low Risk Polymer as defined under 40 CFR 180.960											
Acrylic acid polymer (CAS# 9003-01- 4)											
Acrylic acid polymer, sodium salt (CAS# 9003-04-7)											
Dimethyl silicone polymer with silica (CAS# 67762-90-7)											
Polyvinyl acetate (CAS# 9003-20-7)											
Polyvinyl chloride resin (CAS# 9002- 86-2)	х										
Polyvinylpyrrolidone (CAS# 9003-39- 8)					х					х	
Rosin, maleated, polymer with pentaerythritol (CAS# 68333-69-7)	N/A										
Vinyl alcohol-vinyl acetate copolymer (CAS# 25213-24-5)	N/A										
Mineral acids, bases, and inorganic (their) salts											
Acetic acid, ammonium salt (CAS# 631-61-8)										x	
Ammonium chloride (CAS# 12125- 02-9)	x				x	x				x	



Ammonium hydroxide (CAS# 1336-	х									х	
Ammonium phosphate (monobasic)	v									v	
$(C\Delta S \pm 7722-76-1)$	^									^	
Calcium chloride (CAS# 10043-52-4)										х	
Calcium hydroxide (CAS# 1305-62-0)	х									x	
Calcium oxide (CAS# 1305-78-8)										x	
Carbonic acid, dipotassium salt	х									x	
(CAS# 584-08-7)											
Carbonic acid, disodium salt (CAS#										х	
497-19-8)											
Diammonium phosphate (CAS#										х	
7783-28-0)											
Diphosphoric acid, tetrasodium salt (CAS# 7722-88-5)										х	
Disodium phosphate (CAS# 7558-79-										х	
4)											
Hydrogen chloride (CAS# 7647-01-0)	х					х				х	
Phosphoric acid (CAS# 7664-38-2)										х	
Potassium hydroxide (CAS# 1310-58-	х									х	
3)											
Potassium phosphate (dibasic) (CAS#										х	
7758-11-4)											
Potassium phosphate, monobasic										х	
(LAS# ///8-//-0)											
						х				x	
(CAS# 0654-92-0)											
7758-16-9)											
Sodium tripolyphosphate (CAS#	x					x				x	
7758-29-4)	~					~				~	
Sulfuric acid (CAS# 7664-93-9)	х		х							x	
Tricalcium phosphate (CAS# 7758-										х	
87-4)											
Nonsynthetic											
Ascophyllum nodosum, ext (CAS#	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
84775-78-0)											
Clay (CAS# 70131-50-9)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
d- Limonene (CAS# 5989-27-5)						Х				х	
Milk, hydrolyzed (CAS# 68514-61-4)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oil, rosemary (CAS# 8000-25-7)										х	
Orange oil (CAS# 8008-57-9)											
Pine oil (CAS# 8002-09-3)	X	X				X				X	
Pyrophyllite (CAS# 12269-78-2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sweet orange peel tincture (CAS#	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
$\delta U 2 \delta - 4 \delta - \delta)$			v								
1 dic (CAS# 1480/-90-0)	NI / A	NI / A	X NI / A	NI / A	NI / A	NI / A	NI / A	NI / A	NI / A	NI/A	N/A
Whey (CAS# 69609 59 3)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic acids and salts	IN/A	IN/A	IN/A	IN/A	IN/A	IN/A	IN/A	IN/A	IN/A	IN/A	N/A
Δ cotic acid (CAS# 64.10.7)	v				<u> </u>	v		v	<u> </u>	v	
ACEUC ACIU (CAS# 04-19-7)	Х					х		х		Х	



Octanoic acid (CAS# 124-07-2)										х	х
Propanoic acid (CAS# 79-09-4)	х									х	х
Polyalkoxylates and											
polyalkoxylated alkyl ethers											
Oxirane, methyl-, polymer with	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
oxirane, mono[2-(2-butoxyethoxy)		-	-	-	-				-	-	
ethyl] ether (CAS# 85637-75-8)											
Polyethylene glycol (CAS# 25322-68-						х				х	
3)											
Polvethylene glycol ether with 1.4-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
diisobutyl-1 4-dimethylbutynediol	,	,	,	,	,	,	.,	,	.,	,	,
(2:1) (CAS# 9014-85-1)											
Polyethylene-polypropylene glycol	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
monobutyl ether (CAS# 9038-95-3)	,,,	,,,	,,,	,,,	,,,	,,,	,,,	,,,	,,,	,,,	,,,
Polyoxyethylene-polyoxypropylene										v	
condymer(CAS# 9003-11-6)										^	
Polycorbatos											
Polysorbates										~	
Polyoxyethylene sorbitan										x	
monolaurate (CAS# 9005-64-5)											
Polyoxyethylene sorbitan										х	
monooleate (CAS# 9005-65-6)											
Polyoxyethylene sorbitan trioleate											
(CAS# 9005-70-3)											
Polyoxyethylene sorbitan tristearate											
(CAS# 9005-71-4)											
Polyoxyethylene sorbitol hexaoleate											
(CAS# 57171-56-9)											
Preservatives / Antioxidants											
Benzoic acid (CAS# 65-85-0)										х	
Butylated hydroxytoluene (BHT)										х	
(CAS# 128-37-0)											
Calcium propionate (CAS# 4075-81-											
4)											
Ethoxyquin (CAS# 91-53-2)					х	х				х	
Methyl p-hydroxybenzoate (CAS#						х				х	
99-76-3)											
Propyl p-hydroxybenzoate (CAS# 94-						х	х			х	
13-3)											
Sorbic acid (CAS# 110-44-1)										х	
Tall oil and terpene derivatives											
Copolymer of alpha- and beta-											
pinene (CAS# 31393-98-3)											
Homopolymer of alpha-pinene (CAS#	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
25766-18-1)	,	,	,	,	,	,	,	,	,	,	,
Homopolymer of beta-pinene (CAS#											
25719-60-2)											
Tall oil (CAS# 8002-26-4)											
Ternenes and ternenoids ternentine	N/A	N/A	N/A	N/A	Ν/Δ	N/A	N/A	N/A	N/A	N/A	N/A
oil alnha-ninene fraction		11/74	11/74	11/74	11/74		11/74		11/74		11/7
nolymerized (CAS# 70750-57-1)											
porymenzeu (CA3# 70730-37-1)											



Hydroxyethylldene-1,1-diphosphonic N/A	TBD											
1.1-difluoroethane (CAS# 75-37-6) x	Hydroxyethylidene-1,1-diphosphonic acid (CAS# 2809-21-4)	N/A										
2-(2-hydroxy-3-tert-butyl-5- methylphenyl)-5- chlorobenzotriazole (CAS# 3896-11- 5) 2.2-hydroxy-4-n- octyloxybenzophenone (CAS# 1843- 05-6) Aluminum sulfate (CAS# 10043-01-3) x Aluminum sulfate (CAS# 10043-01-3) x Benzopyran-6-0.3,4-dihydro-2,5,7,8- 2H-1-tertramethyl-2-(4,8,12- trimethyltrideyl)- (CAS# 10191-41- 0) Castor oil, ethoxylated (CAS# 61791- 12-6) Chitosan (CAS# 9012-76-4) Corm steep liquor (CAS# 66071-94-1) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	1,1-difluoroethane (CAS# 75-37-6)	х					х					
methylphenyl-5- chlorobenzotriazole (CAS# 3896-11- 5) N/A N/A <th< td=""><td>2-(2-hydroxy-3-tert-butyl-5-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	2-(2-hydroxy-3-tert-butyl-5-											
chlorobenzotriazole (CAS# 3896-11- 5) 2,2-hydroxy-4-n- octyloxybenzophenone (CAS# 1843- 05-6) Aluminum sulfate (CAS# 10043-01-3) x V V V/A V/A V/A V/A V/A V/A V/A Aluminum sulfate (CAS# 10043-01-3) X V V V/A V/A V/A V/A V/A V/A Benzopyran-6-0;3,4-dihydro-2,5,7,8- 2H-1-tetramethyl-2(4,8,12 trimethyltridecyl)- (CAS# 10191-41- 0) Castor oil, ethoxylated (CAS# 61791- 12-6) Chitosan (CAS# 9012-76-4) Corn steep liquor (CAS# 66071-94-1) V/A	methylphenyl)-5-											
5) Image: Mark Stress of the str	chlorobenzotriazole (CAS# 3896-11-											
2,2-hydroxy-4-n- octyloxybenzophenone (CAS# 1843- 05-6) N/A N/A <td>5)</td> <td></td>	5)											
octyloxybenzophenone (CAS# 1843- 05-6) N	2,2-hydroxy-4-n-	N/A	х	N/A								
05-6) </td <td>octyloxybenzophenone (CAS# 1843-</td> <td></td>	octyloxybenzophenone (CAS# 1843-											
Aluminum sulfate (CAS# 10043-01-3) x x x	05-6)											
Benzopyran-6-ol,3,4-dihydro-2,5,7,8- 2H-1-tetramethyl-2-(4,8,12- trimethyltrideyl)- (CAS# 10191-41- 0) Image: Case of the second se	Aluminum sulfate (CAS# 10043-01-3)		х								х	
2H-1-tetramethyl-2-(4,8,12- trimethyltridecyl)- (CAS# 10191-41- 0) Image: CAS# 10191-41- Castor oil, ethoxylated (CAS# 61791- 12-6) Image: CAS# 10191-41- Castor oil, ethoxylated (CAS# 6071-94-1) Image: CAS# 10191-41- Castor oil, ethoxylated (CAS# 10191-41- Cast 10034-96-5) Image: CAS# 10191-41- Cast 1014-41- Cast 1014- Cast 1014-41- Cast 1014-41- Cast 1014-41- Cast 1014-	Benzopyran-6-ol,3,4-dihydro-2,5,7,8-											
trimethyltridecyl)- (CAS# 10191-41- 0) Castor oil, ethoxylated (CAS# 61791- 12-6) Chitosan (CAS# 9012-76-4) Corn steep liquor (CAS# 66071-94-1) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	2H-1-tetramethyl-2-(4,8,12-											
0) -	trimethyltridecyl)- (CAS# 10191-41-											
Castor oil, ethoxylated (CAS# 61791- 12-6) k k k k k 12-6) k k k k k k Corn steep liquor (CAS# 66071-94-1) N/A N/A <td>0)</td> <td></td>	0)											
12-6) - <td>Castor oil, ethoxylated (CAS# 61791-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>х</td> <td></td>	Castor oil, ethoxylated (CAS# 61791-										х	
Chitosan (CA\$# 9012-76-4) N/A N/A <td>12-6)</td> <td></td>	12-6)											
Corn steep liquor (CAS# 66071-94-1) N/A	Chitosan (CAS# 9012-76-4)										х	
Dodecyl sulfate, sodium salt (CAS# 151-21-3)NN/A <td>Corn steep liquor (CAS# 66071-94-1)</td> <td>N/A</td>	Corn steep liquor (CAS# 66071-94-1)	N/A										
151-21-3) Image: Constraint of the second secon	Dodecyl sulfate, sodium salt (CAS#										х	
Ethylenediamine-N,N'-disuccinic acid (EDDS) (CAS# 20846-91-7)N/A	151-21-3)											
(EDDS) (CAS# 20846-91-7) Image: Constraint of the second seco	Ethylenediamine-N,N'-disuccinic acid	N/A										
Lignosulfonic acid, calcium salt (CAS# 8061-52-7) Manganese sulfate monohydrate (CAS# 10034-96-5) N,N-Bis(2-hydroxyethyl)(coconut oil alkyl)amine (CAS# 61791-31-9) Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt (CAS# 9084-06-4) Oxirane, methyl-, polymer with (CAS# 10034-96-5) N,N-Bis(2-hydroxyethyl)(coconut oil alkyl)amine (CAS# 61791-31-9) Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt (CAS# 9084-06-4) Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3- tetramethyl-1- [(trimethylsilyl)oxy]disiloxanyl]propyl] ether (CAS# 134180-76-0) Oxirane, methyl-, polymer with oxirane, mono-2-propenyl ether (CAS# 9041-33-2) Poly(oxy-1,2-ethanediyl)alpha undecyl-omegahydroxy-, branched and linear (CAS# 127036-24-2) Poly(oxy-1,2-ethanediyl)alpha undecyl-omegahydroxy-, branched and linear (CAS# 127036-24-2) Poly(oxy-1,2-ethanediyl)alpha undecyl-omegahydroxy-, branched and linear (CAS# 127036-24-2) Poly(oxy-1,2-ethanediyl)alpha undecyl-omegahydroxy-, branched and linear (CAS# 127036-24-2) Poly(oxy-1,2-ethanediyl).xalpha undecyl-omegahydroxy-, branched and linear (CAS# 25038- 59-9) Polyoxethylene tristyrylphenol N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	(EDDS) (CAS# 20846-91-7)											
8061-52-7) Image: Constraint of the second seco	Lignosulfonic acid, calcium salt (CAS#											
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N,N-BIS(2-hydroxyethyl)(coconut oii N/A	(CAS# 10034-96-5)	NI / A	N1 / A	N1 / A	N1 / A	NI / A						
Alkylamine (CAS# 61791-31-9)N/AN	N,N-BIS(2-hydroxyethyl)(coconut oll	N/A										
Maphthalehestinonic acid, polymerN/A	alkyijamine (CAS# 61/91-31-9)	NI / A	N1 / A	N1 / A		NI / A						
With formation yole, solidin saitNatN/A	with formaldebude, sodium salt	N/A	IN/A	IN/A	x	N/A						
Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3- tetramethyl-1- [(trimethylsilyl)oxy]disiloxanyl]propyl] ether (CAS# 134180-76-0)N/A <td></td>												
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tetramethyl-1- [(trimethylsilyl)oxy]disiloxanyl]propyl] ether (CAS# 134180-76-0) Oxirane, methyl-, polymer with oxirane, mono-2-propenyl ether (CAS# 9041-33-2) Poly(oxy-1,2-ethanediyl),.alpha undecylomegahydroxy-, branched and linear (CAS# 127036-24-2) Poly(oxy-1,2-ethanediyloxycarbonyl- 1,4-phenylenecarbonyl (CAS# 25038- 59-9) Polyoxyethylene tristyrylphenol N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	ovirane mono[3-[1 3 3 3-	N/A										
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Internet (CAS# 134180-76-0)N/AN/	[(trimethylsilyl)oxyldisiloxanyl]propyl											
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oxirane, mono-2-propenyl ether (CAS# 9041-33-2)N/AN/	Oxirane, methyl-, polymer with	N/A										
CAS# 9041-33-2)N/AN/	oxirane, mono-2-propenyl ether	,	,,,	,,	,,,	,,,	,,,	,,,	,,,	,,,	,	,
Poly(oxy-1,2-ethanediyl),.alpha undecylomegahydroxy-, branched and linear (CAS# 127036-24-2)N/A <td>(CAS# 9041-33-2)</td> <td></td>	(CAS# 9041-33-2)											
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and linear (CAS# 127036-24-2)N/A	undecylomegahydroxy branched	,	,	,	,	,	,	,	,	,	.,	,
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Polyoxyethylene tristyrylphenol N/A	59-9)											
phosphate, potassium salt (CAS#	Polyoxyethylene tristyrylphenol	N/A										
163436-84-8)	phosphate, potassium salt (CAS#										-	-
	163436-84-8)											



Polypropylene glycol (CAS# 25322-	х	х								х	
69-4)											
Propylene glycol (CAS# 57-55-6)	х									х	
Silicones and siloxanes, dimethyl										х	
(CAS# 63148-62-9)											
Sodium bis(2-ethylhexyl)	х									х	
sulfosuccinate (CAS# 577-11-7)											
Sorbitan monostearate (CAS# 1338-											
41-6)											
Titanium dioxide (CAS# 13463-67-7)			х							х	
Tridecanol, ethoxylated, phosphate	N/A										
ester (CAS# 26915-70-8)											
Triethanolamine, compd. with	N/A										
poly(oxyethylene) tristyrylphenyl											
ether (CAS# 105362-40-1)											
Tannic Acid (Tannin) (CAS# 1401-55-	х				х					х	
4)											
Number of "inerts"	20	4	4	5	4	15	4	1	0	65	4

Comparison of toxicity of "inerts" in organic with "inerts" generally

There are more than 2000 substances listed by EPA as "inert" ingredients.⁴⁰ Many of these are of low toxicity, but about half are considered by EPA to be "at least moderately risky."⁴¹ EPA has assessed the toxicity of "inerts" for the purpose of tolerance setting and categorizing them as allowed for food use or non-food use, but has not performed a full battery of tests either on "inert" ingredients or complete formulations including active and "inert" ingredients.

Although the old lists 1, 2, 3, 4A, and 4B are no longer maintained, the descriptions of those not allowed in organic production is illuminating:⁴²

<u>List 1</u>: Inert Ingredients of Toxicological Concern

- Classified on the basis of peer-reviewed studies which demonstrated carcinogenicity, adverse reproductive effects, neurotoxicity or other chronic effects, developmental toxicity (birth defects), ecological effects or the potential for bioaccumulation.
- Original listing of List 1 inert ingredients contained over 50 chemical substances. Today approximately 10 of these substances are still used in pesticide products.
- List 2: Potentially Toxic Other Ingredients/High Priority for Testing inerts
 - Many List 2 inert ingredients are structurally similar to chemicals known to be toxic; some have data suggesting a concern.

⁴⁰ <u>https://iaspub.epa.gov/apex/pesticides/f?p=INERTFINDER:2:::NO</u>:...

⁴¹ Cox, C., & Surgan, M. (2006). Unidentified inert ingredients in pesticides: implications for human and environmental health. Environmental health perspectives, 1803-1806.

⁴² <u>https://www.epa.gov/pesticide-registration/categorized-lists-inert-ingredients-old-lists</u>.



Moving Forward

The Safer Chemical Ingredients List (SCIL)

Safer Choice is a non-regulatory labeling program through which EPA identifies products that meet certain health and environmental criteria. For its first 15 years of existence, Safer Choice was called "Design for the Environment" (DfE), and pesticide products can still receive the DfE label. The Safer Choice criteria consist of "master criteria" and criteria specific to a chemical's functional class (such as solvent, surfactant, chelating agent, etc.)

All SCIL chemicals must meet general and functional-class criteria concerning acute mammalian toxicity, carcinogenicity, genetic toxicity, neurotoxicity, repeated dose toxicity, reproductive and developmental toxicity, respiratory sensitization, skin sensitization, environmental toxicity and fate, and eutrophication. While these criteria address many issues covered in NOSB reviews according to OFPA criteria, they do not address some important elements of OFPA reviews, including impacts on soil organisms and the agroecosystem, essentiality/need, hazards associated with manufacture, transportation, and disposal, and compatibility with organic production systems. Chemicals on the SCIL are given ratings:⁴³

Green circle - The chemical has been verified to be of low concern based on experimental and modeled data.

Green half-circle - The chemical is expected to be of low concern based on experimental and modeled data. Additional data would strengthen our confidence in the chemical's safer status.

Yellow triangle - The chemical has met Safer Choice Criteria for its functional ingredient-class, but has some hazard profile issues. Specifically, a chemical with this code is not associated with a low level of hazard concern for all human health and environmental endpoints. While it is a best-in-class chemical and among the safest available for a particular function, the function fulfilled by the chemical should be considered an area for safer chemistry innovation.

Grey square - This chemical will not be acceptable for use in products that are candidates for the Safer Choice label and currently labeled products that contain it must reformulate per Safer Choice Compliance Schedules.

Thus, even for the OFPA criteria that <u>are</u> included in the review of the SCIL, those with a yellow triangle and gray square rating would <u>not</u> meet OFPA criteria, and those with a green half circle have inadequate data. As of March 2017, the SCIL contains 824 chemicals, some of which are listed in more than one of the 16 categories.⁴⁴ There are 353 List 4A or 4B "inerts" that were on the SCIL, and therefore the NOSB recommendation will allow 471 <u>more</u> chemicals that have not

⁴³ Quoted from <u>http://www.epa.gov/saferchoice/safer-ingredients</u>.

⁴⁴ As of March 29, 2017, there are 824 chemicals on the SCIL, with a total of 875 listings in 16 categories. It is possible that some "inerts" on the list provided to the IWG are no longer used, or that others are now used.



been reviewed by the NOSB to be used as "inerts" in organic production.⁴⁵ Only 49 of the 126 "inerts" known to be used in organic production are currently on the SCIL. Furthermore, it would allow 189 chemicals not currently on Lists 4A or 4B that are coded with a yellow triangle or gray square, and an additional 63 that are coded with a green half circle.

Numbers of Chemicals								
	Green	Half Green	Yellow	Gray	Not on	Total		
List	Circle	Circle	Triangle	Square	SCIL	S		
4A	52	3			84	139		
4B	38	2	15		172	227		
Not on 4A or								
4B	417	78	192	1		688		
Totals	507	83	207	1	256	1054		

How to Use the Safer Choice Program (SCP) and the SCIL to Evaluate "Inerts"

Although the recommendation passed by the NOSB at its fall 2015 meeting is inadequate to ensure that "inerts" meet OFPA criteria, the SCP and SCIL can be helpful to the NOSB in reviewing these materials.

- NOP can contract with the SCP to review "inerts" to OFPA criteria. This could result in Technical Reviews that would be used by the NOSB in its decisions.
- The SCP can create a new functional class, synthetic non-pesticidal ingredients in pesticides used in organic production. This class would have sub-classes, many or all of which may correspond to existing SCIL functional classes –surfactants, fragrances, polymers, for example.
- In conjunction with the NOSB and NOP, the SCP can create an expanded list of criteria that apply to the new class and subclasses and include OFPA criteria. This list of criteria is included in the checklist used by the NOSB to evaluate
- The review of chemicals for this list should include the SCP's review (the Technical Review) to expanded criteria, as well as the NOSB review.

NOP Response to NOSB Fall 2015 Recommendation

NOP issued the following response to the Fall 2015 recommendation:

The NOP has reviewed the NOSB's recommendation and plans to collaborate further with EPA's Safer Choice Program to develop a program for inert ingredient review, and to initiate notice and comment rulemaking to revise the annotations for inert ingredients at 205.601(m) and 205.603(e).⁴⁶

⁴⁵ As of this writing, the last update to the list was September 26, 2016.

⁴⁶ Miles McEvoy, February 29, 2016 Memorandum to NOSB.



Next Steps

The NOSB proposed that a memorandum of understanding (MOU) with EPA would finalize the agreement between NOP and the Safer Choice Program to spell out the details of how the recommendation would actually be implemented. In an October 7, 2016 conference call meeting with members of the National Organic Coalition, USDA Deputy Director (NOP) Miles McEvoy indicated that he has no idea of when the implementation will occur. He also said that the program does not usually accept public input into memoranda of agreement. Nevertheless, given the vacuum of experience at NOP and on the NOSB, some suggestions for elements to be included in the MOU may be needed.

The MOU is between EPA and USDA, but also involves the NOSB as a crucial part of materials review. Below is a description of the procedure for evaluating "inerts" to be covered by the MOU, followed by a description of the responsibilities of each body (NOP, EPA, and NOSB). It is based on the NOSB recommendations made in fall 2012 and fall 2015.

Timeframe

The fall 2012 NOSB recommendation said, in part:

H. The anticipated timeline will enable the NOSB to finalize the procedure by spring 2013, start reviews for fall 2013 and to have as many reviews completed as possible by spring 2015. The intention is to have an amendment to the National List in 2017, which will address the materials reviewed with an implementation period of 2 - 5 years, taking into account public comment and the need for additional reviews for reformulation and compliance.

I. By the time of the five-year sunset period the NOSB will approach a review of those inert substances permitted for use in minimal risk products exempt from pesticide registration under FIFRA section 25(b).

This timeframe is now delayed by four years –finalizing the procedure in 2017, resulting in completion in 2021.

MOU Procedure

- 1. NOP must immediately (as stated in the NOP response to Fall 2012 proposals) conduct a public notice and comment process including:
 - Notification to the public of "inert" ingredients known to be in use in organic production;
 - b. Notification to the public of NOSB's review plan; and
 - c. A request for public comments regarding any other "inert" ingredients currently used in organic production that are not identified in the list provided by NOP.



- 2. NOP will publish for public comment a description of this MOU as a description of the means of implementing the Fall 2015 NOSB recommendation. It will state that "on the SCIL" means "on the section of the SCIL identified as 'Ingredients Other than Active Ingredients in Pesticides Used in Organic Production.'" This may be the same Federal Register notice as the above notice.
- 3. EPA will create a new section of the Safer Chemical Ingredient List (SCIL) for "Ingredients Other than Active Ingredients in Pesticides Used in Organic Production." This list will contain sublists by the function –such as surfactants, chelating agents, and antioxidants that they perform in the pesticide product.
- 4. EPA will identify products in use in organic production in which the "inerts" identified by NOP are used, the function of each "inert" ingredient within the products, and alternative materials that serve the same function.
- 5. In concert with NOP and the NOSB, EPA will divide the list of "inerts" into five groups and review one group per year. One year's review group may include one or more functional classes.
- 6. EPA will evaluate the "inerts" identified by NOP and the EPA alternatives according to the criteria appropriate for the substance's function and will assign ratings according to the current practice within the Safer Choice Program (SCP) –i.e., green circle, green half-circle, yellow triangle, and gray square.
- 7. EPA's review will cover all topics covered in a technical review commissioned for the NOSB, as well as the topics required to rate the substances according to the SCP. To minimize duplication of work and ease NOSB review, a single review will cover chemicals in the same functional class.
- 8. EPA will provide a public version of the information it reviews to the NOSB, which will be used as a technical review. It will be posted on the NOP website for public viewing. It will contain the following:
 - a. a chart of all inerts in the class identified by CAS number with their chemical properties, uses, types of product categories in which they occur, EPA regulatory status, including data gaps.
 - b. a description of how inerts within the class are related and how different, especially outliers that are significantly different from others.
 - a chart that evaluates each inert in the class under the screening steps suggested by NOSB and any additional screening recommended by the NOSB, with input from the IWG.
 - d. OFPA criteria will be addressed that are not usually covered in the EPA review (environment, interactions, and alternatives or essentiality).
- 9. Based on results of the group TR, the NOSB Crops Subcommittee will accept the class to move forward to the NOSB agenda, or single out one or more substance for individual review –in which case, the group will then move forward without that substance and that one will be re-reviewed in more detail if necessary.
- 10. The NOSB will review the information provided by EPA according to its usual materials review procedures, subjecting them to OFPA criteria.



- 11. In accordance with its meeting and notice procedures, after NOP publishes the NOSB proposal for listing a class of "inerts" on the National List (as part of the SCIL sublist for "Ingredients Other than Active Ingredients in Pesticides Used in Organic Production"), the NOSB will vote on the proposals and recommend listing or not listing each class.
- 12. NOP will publish recommendations from the NOSB for public comment according to its usual National List procedures, gather public comment, and finalize the listing.
- 13. EPA will add the approved chemicals, with approved annotations, to the appropriate subsection of the SCIL sublist for "Ingredients Other than Active Ingredients in Pesticides Used in Organic Production."

MOU Responsibilities

NOP:

- NOP must immediately (as stated in the NOP response to Fall 2012 proposals) conduct a public notice and comment process including:
 - Notification to the public of "inert" ingredients known to be in use in organic production;
 - Notification to the public of NOSB's review plan; and
 - A request for public comments regarding any other "inert" ingredients currently used in organic production that are not identified in the list provided by NOP.
- NOP will publish for public comment a description of this MOU as a description of the means of implementing the Fall 2015 NOSB recommendation. It will state that "on the SCIL" means "on the section of the SCIL identified as 'Ingredients Other than Active Ingredients in Pesticides Used in Organic Production.'" This may be the same Federal Register notice as the above notice.
- NOP will publish in the Federal Register recommendations from the NOSB for public comment according to its usual National List procedures, gather comments, and send the finalized listing to EPA.
- NOP will provide expertise as needed to EPA to address issues not generally covered by EPA's Safer Choice reviews.

EPA:

- EPA will create a new section of the Safer Chemical Ingredient List (SCIL) for "Ingredients Other than Active Ingredients in Pesticides Used in Organic Production." This list will contain sublists by the function –such as surfactants, chelating agents, and antioxidants—they perform in the pesticide product.
- EPA will identify products in use in organic production in which the "inerts" identified by NOP are used, the function of each "inert" ingredient within the products, and alternative materials that serve the same function.
- In concert with NOP and the NOSB, EPA will divide the list of "inerts" into five groups and review one group per year. Each group may contain one or more functional class.



- EPA will evaluate the "inerts" identified by NOP and the EPA alternatives according to the criteria appropriate for the substance's function and will assign ratings according to the current practice within the Safer Choice Program –i.e., green circle, green half-circle, yellow triangle, and gray square.
- EPA will provide a public version of the information it reviews to the NOSB.
- EPA will list in the appropriate section of "Ingredients Other than Active Ingredients in Pesticides Used in Organic Production" those "inerts" approved by the NOSB and NOP.

NOSB:

- The NOSB will review the information provided by EPA according to its usual materials review procedures, subjecting them to OFPA criteria.
- In accordance with its meeting and notice procedures, after NOP publishes NOSB proposals for listing of "inerts" on the National List and the SCIL sublist for "Ingredients Other than Active Ingredients in Pesticides Used in Organic Production," the NOSB will vote on the proposals and recommend listing or no listing of each.

Conclusion

The continued allowance of "inert" ingredients as listed based on an obsolete categorization by EPA jeopardizes the integrity of the organic label. These ingredients frequently compose as much as 99% of pesticide products and due to NOSB scrutiny of <u>active</u> ingredients may be the most hazardous ingredients in pesticide products used in organic production. This report has outlined the history of "inerts" and issues associated with them and has suggested a path forward for completing the NOSB's recommended actions.

Appendices

EPA Lists 4A and 4B, as amended Safer Chemical Ingredient List

U.S. Environmental Protection Agency

Office of Pesticide Programs List of Inert Pesticide Ingredients List 4A - Minimal Risk Inert Ingredients - By Chemical Name Updated August 2004

CAS	PREFIX	NAME	List No.
62-54-4		Acetic acid, calcium salt	4A
127-08-2		Acetic acid, potassium salt	4A
127-09-3		Acetic acid, sodium salt	4A
8007-69-0		Almond oil	4A
1327-43-1		Aluminum magnesium silicate	4A
1327-44-2		Aluminum potassium silicate	4A
		Animal feed items conforming to 40 CFR 180.950(b)	4A
		Animal glue	4A
50-81-7	L-	Ascorbic acid	4A
137-66-6		Ascorbyl palmitate	4A
8012-89-3		Beeswax	4A
1302-78-9		Bentonite	4A
85409-30-5		Bentonite, sodian	4A
1863-63-4		Benzoic acid, ammonium salt	4A
2090-05-3		Benzoic acid, calcium salt	4A
553-70-8		Benzoic acid, magnesium salt	4A
582-25-2		Benzoic acid, potassium salt	4A
532-32-1		Benzoic acid, sodium salt	4A
68409-75-6		Bone meal	4A
123-95-5		Butyl stearate	4A
5743-26-0		Calcium acetate, monohydrate	4A
471-34-1		Calcium carbonate	4A
6107-56-8		Calcium octanoate	4A
12168-85-3		Calcium oxide silicate (Ca3O(SiO4))	4A
10101-41-4		Calcium sulfate, dihydrate	4A
10034-76-1		Calcium sulfate, hemihydrate	4A
68476-78-8		Cane syrup	4A
120962-03-0		Canola oil	4A
7440-44-0		Carbon	4A
124-38-9		Carbon dioxide	4A
13397-26-7		Carbonic acid, calcium salt (calcite)	4A
546-93-0		Carbonic acid, magnesium salt (1:1)	4A
298-14-6		Carbonic acid, monopotassium salt	4A
144-55-8		Carbonic acid, monosodium salt	4A
		Cardboard	4A
8015-86-9		Carnauba wax	4A
9000-40-2		Carob gum (locust bean gum)	4A
9000-07-1		Carrageenan	4A
8001-79-4		Castor oil	4A
8001-78-3		Castor oil, hydrogenated	4A
		Cat food	4A
9004-34-6		Cellulose	4A
9004-35-7		Cellulose acetate	4A
9004-32-4		Cellulose carboxy methyl ether, sodium salt	4A
9004-62-0		Cellulose, 2-hydroxyethyl ether	4A
9004-64-2		Cellulose, 2-hydroxypropyl ether	4A
9004-65-3		Cellulose, 2-hydroxypropyl methyl ester	4A
9000-11-7		Cellulose, carboxymethyl ether	4A
9004-67-5		Cellulose, methyl ether	4A

	Cellulose, mixture with cellulose carboxymethyl ether,	
51395-75-6	sodium salt	4A
65996-61-4	Cellulose, pulp	4A
68442-85-3	Cellulose, regenerated	4A
77-92-9	Citric acid	4A
813-94-5	Citric acid, calcium salt (2:3)	4A
7693-13-2	Citric acid, calcium salt (2:3)	4A
3609-96-9	Citric acid, dipotassium salt	4A
144-33-2	Citric acid, disodium salt	4A
5949-29-1	Citric acid, monohydrate	4A
866-83-1	Citric acid, monopotassium salt	4A
18996-35-5	Citric acid, monosodium salt	4A
7778-49-6	Citric acid, potassium salt	4A
994-36-5	Citric acid, sodium salt	4A
866-84-2	Citric acid, tripotassium salt	4A
6100-05-6	Citric acid, tripotassium salt, monohydrate	4A
68-04-2	Citric acid, trisodium salt	4A
6132-04-3	Citric acid, trisodium salt, dihydrate	4A
6858-44-2	Citric acid, trisodium salt, pentahydrate	4A
68514-76-1	Citrus pulp, orange	4A
	Clam shells	4A
8002-31-1	Сосоа	4A
8001-31-8	Coconut oil	4A
68916-18-7	Coffee grounds	4A
	Commonly consumed food commodities conforming to 40	
	CFR 180.950(a)	4A
61789-98-8	Cork	4A
68525-86-0	Corn flour	4A
8001-30-7	Corn oil	4A
8029-43-4	Corn syrup	4A
68131-37-3	Corn syrup solids	4A
9005-25-8	Cornstarch	4A
	Cotton	4A
68424-10-2	Cottonseed meal	4A
8001-29-4	Cottonseed oil	4A
53988-07-1	Decanoic acid, diester with 1,2,3-propanetriol (9CI)	4A
26402-22-2	Decanoic acid, monoester with 1,2,3-propanetriol	4A
9004-53-9	Dextrins	4A
50-99-7	Dextrose	4A
61790-53-2	Diatomaceous earth (less than 1% crystalline silica)	4A
143-07-7	Dodecanoic acid	4A
142-18-7	Dodecanoic acid, 2,3-dihydroxypropyl ester	4A
27638-00-2	Dodecanoic acid, diester with 1,2,3-propanetriol (9CI)	4A
27215-38-9	Dodecanoic acid, monoester with 1,2,3-propanetriol (9CI)	4A
16389-88-1	Dolomite (CaMg(CO3)2)	4A
	Douglas fir bark	4A
	Edible fats and oils conforming to 40 CFR 180.950(c)	4A
	Egg shells	4A
68476-25-5	Feldspar group minerals	4A
8016-13-5	Fish oil	4A
8031-18-3	Fuller's earth	4A
110-17-8	Fumaric acid	4A

71010-52-1	Gellan gum (tolerance pending approval)	4A
68476-37-9	Glue (as depolymerized animal collagen)	4A
56-81-5	Glycerol (glycerin) 1,2,3 propanetriol	4A
7782-42-5	Graphite	4A
9000-30-0	Guar gum	4A
13397-24-5	Gypsum	4A
1317-60-8	Hematite (Fe2O3)	4A
57-10-3	Hexadecanoic acid	4A
26657-95-4	Hexadecanoic acid, diester with 1,2,3-propanetriol (9CI)	4A
26657-96-5	Hexadecanoic acid, monoester with 1,2,3-propanetriol	4A
8028-66-8	Honey	4A
68514-28-3	Humic acid, potassium salt	4A
68131-04-4	Humic acid, sodium salt	4A
68334-00-9	Hydrogenated cottonseed oil	4A
68514-74-9	Hydrogenated palm oils	4A
84681-71-0	Hydrogenated rapeseed oil	4A
8016-70-4	Hydrogenated soybean oil	4A
8013-17-0	Invert sugar	4A
12068-86-9	Iron magnesium oxide (Fe2MaO4)	4A
1317-61-9	Iron oxide (Fe3O4)	4A
1309-37-1	Iron oxide (Fe2O3)	4A
12259-21-1	Iron oxide (Fe2O3), hydrate	4A
1345-25-1	Iron oxide (FeO)	4A
110-27-0	Isopropyl myristate	4A
1332-58-7	Kaolin	4A
97-64-3	Lactic acid, ethyl ester	4A
138-22-7	Lactic acid, n-hutvl ester	10
130-22-7		77
63-42-3	(+)- Lactose	4A
64044-51-5	Lactose monohydrate	4A
8006-54-0	Lanolin	4A
61789-99-9	Lard	4A
8002-43-5	Lecithins	4A
8030-76-0	Lecithins, sova	4A
68916-91-6	Licorice extract	4A
12001-27-3	Lime (chemical) dolomitic	4A
1317-65-3	Limestone	4A
8001-26-1	Linseed oil (unboiled)	4A
1309-48-4	Magnesium oxide	4A
12207-97-5	Magnesium oxide silicate (Mg3O(Si2O5)2), monohydrate	4A
1343-90-4	Magnesium silicate, hydrate	4A
14987-04-3	Magnesium silicon oxide (Mg2Si3O8)	4A
10034-99-8	Magnesium sulfate heptahydrate	4A
6915-15-7	Malic acid	4A
8002-48-0	Malt extract	4A
9050-36-6	Maltodextrin	4A
68131-12-4	Meat meal	4A
12003-38-2	Mica	4A
12001-26-2	Mica group minerals	4A
8052-35-5	Molasses	4A
1318-93-0	Montmorillonite	4A

1327-36-2		Mullite	4A
37244-96-5		Nepheline syenite	4A
7727-37-9		Nitrogen	4A
134134-87-5		Oat protein	4A
25496-72-4	9-	Octadecanoic acid (9Z)-,monoester with 1,2,3 propanetriol	4A
1002-89-7		Octadecanoic acid, ammonium salt	4A
1592-23-0		Octadecanoic acid, calcium salt	4A
557-04-0		Octadecanoic acid, magnesium salt	4A
12694-22-3	9-	Octadecanoic acid, monoester with oxybis (propanediol)	4A
593-29-3		Octadecanoic acid, potassium salt	4A
822-16-2		Octadecanoic acid, sodium salt	4A
557-05-1		Octadecanoic acid, zinc salt	4A
111-03-5	9-	Octadecenenoic acid (Z)-, 2,3-dihydroxypropyl ester (9CI)	4A
143-18-0	9-	Octadecenoic acid (9Z)-, potassium salt	4A
143-19-1	9-	Octadecenoic acid (9Z)-, sodium salt	4A
7492-30-0	9-	Octadecenoic acid, 12-hydroxy-, monopotassium salt, (9Z,	4A
5323-95-5	9-	Octadecenoic acid, 12-hydroxy-, monosodium salt, (9Z, 12	2R4A
49553-76-6	9-	Octadecenoic acid, ester with 1,2,3-propanetriol	4A
71012-10-7	9-	Octadecenoic acid, monoester with tetraglycerol	4A
		Octanoic acid, diester iwht 1,2,3-propanetriol	
36354-80-0		(9CI)	4A
26402-26-6		Octanoic acid, monoester with 1,2,3-propanetriol	4A
1984-06-1		Octanoic acid, sodium salt	4A
1323-83-7		Octodecanoic acid, diester with 1,2,3-propanetriol (9CI)	4A
11099-07-3		Octodecanoic acid, ester with 1,2,3-propanetriol (9CI)	4A
		Octodecanoic acid, monoester with 1,2,3-propanetriol	
31566-31-1		(9CI)	4A
25637-84-7	9-	Octodecenoic acid (9Z)-, diester with 1,2,3-propanetriol (96	C4A
68917-73-7		Oils, wheat	4A
112-80-1		Oleic acid	4A
8001-25-0		Olive oil	4A
		Oyster shells	4A
8002-75-3		Palm oil	4A
		Paper	4A
68991-42-4		Paprika	4A
8002-74-2		Paraffin wax	4A
8002-03-7		Peanut oil	4A
		Peat moss	4A
130885-09-5		Perlite	4A
93763-70-3		Perlite, expanded	4A
26499-65-0		Plaster of Paris	4A
9002-88-4		Polyethylene	4A
7646-93-7		Potassium bisulfate	4A
7447-40-7		Potassium chloride	4A
764-71-6		Potassium octoate	4A
24634-61-5		Potassium sorbate	4A
9007-48-1	1,2,3-	Propanetriol, homopolymer (9Z)-9-octadecenoate	4A
9009-32-9	1,2,3-	Propanetriol, homopolymer, octadecanoate	4A
1332-09-8			4A
68553-81-1		RICE DRAN OIL	4A
9006-04-6		Kubber	4A

8001-23-8	Safflower oil	4A
	Sawdust	4A
8008-74-0	Sesame seed oil	4A
63231-67-4	Silica Gel	4A
112926-00-8	Silica gel, precipitated, crystalline-free	4A
112945-52-5	Silica, amorphous, fumed (crystalline free)	4A
7699-41-4	Silica, amorphous, precipitated and gel	4A
10279-57-9	Silica, hydrate	4A
60676-86-0	Silica, vitreous	4A
13776-74-4	Silicic acid (H2SiO3), magnesium salt (1:1)	4A
12003-51-9	Silicic acid (H4SiO4), aluminum sodium salt (1:1:1)	4A
12736-96-8	Silicic acid, aluminum potassium sodium salt	4A
1335-30-4	Silicic acid, aluminum salt	4A
1344-00-9	Silicic acid, aluminum sodium salt	4A
1344-95-2	Silicic acid, calcium salt	4A
1343-88-0	Silicic acid, magnesium salt	4A
7631-86-9	Silicon dioxide (crystalline-free forms only)	4A
1393-03-9	Soapbark (Quillaja saponin)	4A
9005-38-3	Sodium alginate	4A
7647-14-5	Sodium chloride	4A
50-70-4	Sorbitol	4A
8001-22-7	Soybean oil	4A
8002-24-2	Sperm oil	4A
57-11-4	Stearic acid	4A
57-50-1	Sugar	4A
7704-34-9	Sulfur	4A
7778-18-9	Sulfuric acid. calcium salt (1:1)	4A
7778-80-5	Sulfuric acid, dipotassium salt	4A
7757-82-6	Sulfuric acid, disodium salt	4A
7727-73-3	Sulfuric acid, disodium salt, decahvdrate	4A
7487-88-9	Sulfuric acid, magnesium salt (1:1)	4A
68937-99-5	Sunflower seeds	4A
61789-97-7	Tallow	4A
544-63-8	Tetradecanoic acid	4A
589-68-4	Tetradecanoic acid. 2.3-dihydroxypropyl ester	4A
53563-63-6	Tetradecanoic acid, diester with 1,2,3-propanetriol (9CI) 4A
27214-38-6	Tetradecanoic acid, monoester with 1,2,3-propanetriol	9CI 4A
13429-27-1	Tetradecanoic acid, potassium salt	4A
57-13-6	Urea	4A
121-33-5	Vanillin	4A
1318-00-9	Vermiculite	4A
	Vinegar (maximum of 8% acetic acid in solution)	4A
1406-18-4	Vitamin E	4A
7732-18-5	Water	4A
8006-95-9	Wheat germ oil	4A
8042-47-5	White mineral oil (petroleum)	4A
68917-75-9	Wintergreen oil	4A
13983-17-0	Wollastonite (Ca(SiO3))	4A
11138-66-2	Xanthan gum	4A
68876-77-7	Yeast	4A
-		

1318-02-1	Zeolites (excluding erionite (CAS Reg. No. 66733-21-9))	4A
68989-22-0	Zeolites, NaA	4A
12063-19-3	Zinc iron oxide	4A
1314-13-2	Zinc oxide	4A
U.S. Environmental Protection Agency

Office of Pesticide Programs List of Inert Pesticide Ingredients List 4B - Other ingredients for which EPA has sufficient information to reasonably conclude that the current use pattern in pesticide products will not adversely affect public health or the environment. - By Chemical Name Updated August 2004

CAS 64-19-7	PREFIX	NAME Acetic acid	4B
26337-35-9		and ethene	4B
137091-12-4		Acetic acid ethenyl ester, polymer with ethanol and alpha- 2-propenyl-omega-hydroxypoly(oxy-1,2-ethandiyl) Acetic acid [(5-chloro-8-quipolipyl)oxyl- 1-methylbexyl	4B
99607-70-2		ester (9Cl)	4B
631-61-8		Acetic acid, ammonium salt	4B
108419-34-7		Acetic acid, C9-11-branched alkyl esters, C10-rich	4B
108-24-7		Acetic anhydride	4B
98-86-2		Acetophenone	4B
77-90-7		Acetyl tributyl citrate	4B
91994-94-4		Acetylated lanolin alcohol	4B
9003-06-9		Acrylamide - acrylic acid resin	4B
130353-60-5		Acrylic acid - divinyl benzene copolymer	4B
		Acrylic acid butyl ester, polymer with methacrylic acid,	
25987-66-0		methyl methacrylate and styrene	4B
24968-79-4		Acrylic acid methyl ester, polymer with acrylonitrile	4B
		Acrylic acid methyl ester, polymer with acrylonitrile and	
27012-62-0		1,3-butadiene	4B
9003-01-4		Acrylic acid polymer	4B
9003-04-7		Acrylic acid polymer, sodium salt	4B
151006-66-5		Acrylic acid terpolymer, partial sodium salt	4B
25750-84-9		Acrylic acid, butyl ester, polymer with ethylene	4B
25119-83-9		Acrylic acid, copolymer with butyl acrylate	4B
25987-30-8		Acrylic acid, polymer with acrylamide, sodium sait	4B
26604 01 2		Actylic acid, polymer with actylonithie, ethyl actylate and N-	1 D
20004-01-3		Acrylic acid, polymer with ethyl acrylate and	4D
25135-30-1		methylmethacrylate	∕IR
20100-00-1		Acrylic acid styrene alpha -methyl styrene conolymer	ΨD
89678-90-0		ammonium salt	4R
52831-04-6		Acrylic acid-alpha-methylstyrene-styrene copolymer	4B
0_00.0.0		Acrylic acid-sodium acrylate-sodium-2-	
97953-25-8		methylpropanesulfonate copolymer	4B
27756-15-6		Acrylic acid-stearyl methacrylate copolymer	4B
9003-18-3		Acrylonitrilebutadiene copolymer	4B
		Alanine, N-(2,4-dihydroxy-3,3-dimethyl-1-oxobutyl)-,	
137-08-6	beta-	calcium salt (2:1), (R)- (9CI) (CA IN	4B
68131-40-8		Alcohols, C11-15-secondary, ethoxylated	4B
68551-13-3		Alcohols, C12-15, ethoxylated propoxylated	4B
70632-06-3		Alcohols, C12-15, ethoxylated, carboxylated, sodium salts	4B
69227-21-0		Alcohols, C12-18, ethoxylated propoxylated	4B
68526-94-3		Alcohols, C12-20, ethoxylated	4B
68920-66-1		Alcohols, C16-18 and C18-unsatd., ethoxylated	4B
00004 00 0		Alconols, C8-10, ethoxylated, monoether with sulfuric	45
00091-29-2		acio, ammonium sait	4B
00920-09-4		Alconois, C9-11, propoxylated	4D

154518-36-2	Alcohols, C9-11-iso-, C10-rich, ethoxylated propoxylated	4B
97043-91-9	Alcohols, C9-16, ethoxylated	4B
68527-08-2	Alkenes, C>10 .alpha, polymd.	4B
142-03-0	Aluminum acetate, basic	4B
7446-70-0	Aluminum chloride	4B
21645-51-2	Aluminum hydroxide	4B
6028-57-5	Aluminum octanoate	4B
1344-28-1	Aluminum oxide	4B
10043-01-3	Aluminum sulfate	4B
68425-44-5	Amides, coco, N-(hydroxyethyl), ethoxylated	4B
61791-26-2	Amines, tallow alkyl, ethoxylated	4B
7784-25-0	Ammonium alum	4B
7803-63-6	Ammonium bisulfate	4B
12124-97-9	Ammonium bromide	4B
12125-02-9	Ammonium chloride	4B
3012-65-5	Ammonium citrate, dibasic	4B
1336-21-6	Ammonium hydroxide	4B
6484-52-2	Ammonium nitrate	4B
7722-76-1	Ammonium phosphate (monobasic)	4B
68333-79-9	Ammonium polyphosphate	4B
7783-20-2	Ammonium sulfate	4B
147-81-9	Arabinose (8CI, 9CI) (CA INDEX NAME)	4B
84775-78-0	Ascophyllum nodosum, ext	4B
374602-90-1	Ashes (residues), sunflower seed hull	4B
12174-11-7	Attapulgite	4B
7727-43-7	Barium sulfate (1:1)	4B
8029-31-0	Beer	4B
	Benzene, diethenyl-, polymer with etenylbenzene and	
69011-22-9	ethenylethylbenzene, sulfonated, sodium salts	4B
	Benzene, ethenyl-, polymer with 2,5-furandione, 2-	
68890-80-2	butoxyethyl ester, ammonium salt	4B
	Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene,	
68648-89-5	hydrogenated	4B
65-85-0	Benzoic acid	4B
	Benzopyran-6-ol,3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-	
10191-41-0	2H-1- trimethyltridecyl)-	4B
	Benzyl ether of 1,1,3,3-tetramethylbutylphenoxypolyethoxy	
60864-33-7	ethanol	4B
61791-31-9	N,N- Bis(2-hydroxyethyl)(coconut oil alkyl)amine	4B
	Bis(6-isocyanatohexyl)-2H-1,3,5-oxadiazine-2,4,6-	
87823-33-4	3,5- (3H,5H)-trione, polymer with diethylenetriamine	4B
1318-23-6	Boehmite (AI(OH)O)	4B
9003-55-8	Butadiene-styrene copolymer	4B
106-97-8	n- Butane	4B
110-15-6	Butanedioic acid	4B
106-65-0	Butanedioic acid, dimethyl ester	4B
	Butanediol, copolymer with 4,4'-diphenylmethane	
9018-04-6	1,4- diisocyanate and polytetramethylene glycol	4B
71-36-3	1- Butanol	4B

689-82-7	2- Butenedioic acid (Z)-, monopotassium salt	4B
32649-30-2	2- Butenedioic acid (Z)-, polymer with ethenol, sodium salt Butenedioic acid (Z), polymer with ethenol and ethenyl	4B
139871-83-3	2- acetate, sodium salt	4B
	Butyl acrylate-2-ethylhexyl acrylate-2-hydroxyethyl	
70549-17-6	acrylate-styrene copolymer	4B
	Butyl acrylate-ethyl acrylate-methacrylic acid-methyl	
63744-68-3	methacrylate-styrene copolymer	4B
65405-40-5	Butyl acrylate-vinyl acetate-acrylic acid copolymer	4B
26160-96-3	Butylated polyvinylpyrrolidone	4B
50769-39-6	Butylpolyethoxyethanol esters of phosphoric acid	4B

96-48-0	gamma- Butyrolactone	4B
1328-53-6	C.I. Pigment Green 7	4B
10043-52-4	Calcium chloride	4B
1305-62-0	Calcium hydroxide	4B
1305-78-8	Calcium oxide	4B
10103-46-5	Calcium phosphate	4B
4075-81-4	Calcium propionate	4B
68187-71-3	Calcium salts of tall-oil fatty acids	4B
15974-07-9	Calcium zinc phosphate (CaZn2(PO4)2)	4B
8028-89-5	Caramel	4B
10361-29-2	Carbonic acid, ammonium salt	4B
506-87-6	Carbonic acid, diammonium salt	4B
584-08-7	Carbonic acid, dipotassium salt	4B
497-19-8	Carbonic acid, disodium salt	4B
598-62-9	Carbonic acid, manganese(2+) salt (1:1)	4B
1066-33-7	Carbonic acid, monoammonium	4B
9000-71-9	Caseins	4B
9005-42-9	Caseins, ammonium complexes	4B
9005-46-3	Caseins, sodium complexes	4B
	Castor oil, dehydrated, polymer with p-tert-butylbenzoic	
68071-54-5	acid, glycerol and phthalic anhydride	4B
61791-12-6	Castor oil, ethoxylated	4B
	Castor oil, hydrogenated, polymer with adipic acid,	
125303-89-1	ethylenediamine and 12-hydroxyoctadecanoic acid	4B
	Castor oil, maleic anhydride, and polyethylene glycol	
71820-36-5	copolymer	4B
68187-84-8	Castor oil, oxidized	4B
68187-76-8	Castor oil, sulfated, sodium salt	4B
8023-84-		
5	Catnip	4B
65997-15-1	Cement, portland, chemicals	4B
36653-82-4	Cetyl alcohol	4B
29710-31-4	Cetvl octanoate	4B
8021-99-6	Charcoal, bone	4B
97765-70-3	Cheese	4B
9012-76-4	Chitosan	4B
64754-90-1	Chlorinated polyethylene	4B

	(3 beta)		
57-88-5	- C	Cholest-5-en-3-ol	4B
67-48-1	C	Choline chloride	4B
70131-50-9	C	Slav	4B
8001-69-2	C	Cod liver oil	4B
20427-59-2	C	Copper (II) C2449hvdroxide	4B
147-14-8	C	Copper phthalocvanine blue	4B
66071-94-1	C	Corn. steep liquor	4B
68917-18-0	C	Cornmint oil	4B
63393-89-5	C	Coumarone - indene resin	4B
14464-46-1	C	Cristobalite	4B
74811-65-7	C	Croscarmellose sodium	4B
	С	Crustacea (raw and processed forms)	4B
527-09-3	С	Cupric gluconate	4B
10016-20-3	alpha- C	Cyclodextrin	4B
	•		
128446-33-3	1-alpha- C	Cyclodextrin, 2-hydroxypropyl ethers	4B
111-20-6	D	Decanedioic acid	4B
334-48-5	D	Decanoic acid	4B
112-30-1	1- D	Decanol	4B
21662-09-9	4- D	Decenal, (4Z)-	4B
41444-55-7	D	ecyl glucoside	4B
37764-25-3	N,N- D	Diallyl-2,3-dichloroacetamide	4B
7783-28-0	D	Diammonium phosphate	4B
404770 00 0	2 / D		40
121770-33-0	3-(D	Notholoacelyl)-5-(2-lulanyl)-2,2-dimethyl 2 pyrozolia 2 5	4D
125500 01 0	D	ieerbewylete	40
135590-91-9	ui D	ical DOXylate	4D 4D
67762.00.7	D	Vimethyl eiliegne polymer with eilige	4D 4D
20464 64 7	D	Vineury Silicone polymer with Silica	4D 4D
39404-04-7	D	monyiphenoi, emoxyialed, phosphaled	4D
20727-33-7	П	Noctyl* sodium sulfosuccinate (* octyl is 1-methylbentyl)	4R
20121 00 1		Dioxolo[4,5-f]benzimidazole, 6-chloro-5-[(3,5-	τU
400007 70 0			45
188027-78-3	5H-1,3- d	limetnyi-4-isoxazoiyi)suitonyij-2,2-ditiuoro	4B
7722-88-5	D	Piphosphoric acid, tetrasodium salt	4B
7558-79-4	D	Disodium phosphate	4B
0004.00.4	D	odecanol, ethoxylated, monoether with sulfuric acid,	40
9004-82-4	so	odium salt	4B
25719-52-2	D	odecyl 2-metnylacrylate polymer	4B
26183-44-8	П	odecyl alcohol, ethoxylated, monoether with sulfuric acid	∕IR
151-21-3		odecyl alconol, cinoxylaica, monocinci with sulfate acia	⊿B
101 21-0	ם)ried crickets	4R
	ם		4R
9006-50-2	F	ag white	4R
5000 00 Z		and processed forms)	4R
	- ;		.0

	Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-	
	oxo-2-propenyl)oxy]-, chloride, polymer with	
36347-52-1	methyl 2-methyl-2-propenoate	4B
64-17-5	Ethanol	4B
9003-09-2	Ethene, methoxy-, homopolymer	4B
91-53-2	Ethoxyauin	4B
141-78-6	Ethyl acetate	4B
25212-88-8	Ethyl acrylate-methacrylic acid copolymer	4B
73637-19-1	Ethyldiaminetetraacetic acid (EDTA) disodium copper (II) s	a4B
73637-20-4	Ethyldiaminetetraacetic acid (EDTA) disodium manganese	4B
73513-47-0	Ethyldiaminetetraacetic acid (EDTA) disodium zinc salt, dih	۱4B
15708-41-5	Ethyldiaminetetraacetic acid (EDTA) iron(III) sodium salt	4B
17421-79-3	Ethyldiaminetetraacetic acid (EDTA) monosodium salt	4B
65501-24-8	Ethyldiaminetetraacetic acid (EDTA) tripotassium salt, dihv	d4B
	Ethylene oxide-propylene oxide copolymer	
26316-40-5	ethylenediamine ether	4B
24937-78-8	Ethylene, polymer with vinyl acetate	4B
139-33-3	Ethylenediaminetetraacetatic acid (EDTA), disodium salt	4B
150-38-9	Ethylenediaminetetraacetatic acid (EDTA), trisodium salt	4B
5964-35-2	Ethylenediaminetetraacetec acid (EDTA), tetrapotassium s	a4B
60-00-4	Ethylenediaminetetraacetic acid (EDTA)	4B
61916-40-3	Ethylenediaminetetraacetic acid (EDTA) disodium copper(I	I4B
14729-89-6	Ethylenediaminetetraacetic acid (EDTA) disodium iron(II) s	a4B
15375-84-5	Ethylenediaminetetraacetic acid (EDTA) disodium mangang	e4B
62-33-9	Ethylenediaminetetraacetic acid (EDTA), calcium disodium	4B
12276-01-6	Ethylenediaminetetraacetic acid (EDTA), copper (II) salt	4B
20824-56-0	Ethylenediaminetetraacetic acid (EDTA), diammonium salt	4B
14025-15-1	Ethylenediaminetetraacetic acid (EDTA), disodium copper(I4B
6381-92-6	Ethylenediaminetetraacetic acid (EDTA), disodium salt, dih	v4B
14025-21-9	Ethylenediaminetetraacetic acid (EDTA), disodium zinc salt	ί4Β
7379-27-3	Ethylenediaminetetraacetic acid (EDTA), potassium salt	4B
7379-28-4	Ethylenediaminetetraacetic acid (EDTA), sodium salt	4B
64-02-8	Ethylenediaminetetraacetic acid (EDTA), tetrasodium salt	4B
67401-50-7	Ethylenediaminetetraacetic acid (EDTA), tetrasodium salt,	t 4B
17572-97-3	Ethylenediaminetetraacetic acid (EDTA), tripotassium salt	4B
17099-81-9	Ethylenediaminetetraacteic acid (EDTA), iron(III) salt	4B
67762-38-3	Fatty acids, C16-18 & C18-unsatd., Me esters	4B
67701-08-0	Fatty acids, C16-18 and C18-unsatd	4B
	Fatty acids, C18-unsatd., trimers, reaction products with	
162627-18-1	triethylenetetramine	4B
68525-90-6	Fatty acids, C8-18, esters with sorbitol, ethoxylated	4B
	Fatty acids, coco, esters with polyethylene glycol ether	
68553-02-6	with glycerol (3:1)	4B
68154-33-6	Fatty acids, coco, esters with sorbitan, ethoxylated-	4B
68919-53-9	Fatty acids, soya, Me esters	4B
	Fatty acids, tall-oil, C12-15-alkyl esters, sulfated, sodium	
68424-50-0	salts	4B
61790-90-7	Fatty acids, tall-oil, hexaester with sorbitol, ethoxylated	4B
	Fatty acids, tall-oil, mixed esters with glycerol and	
68650-09-9	polyethylene glycol	4B

61790-92-9		Fatty acids, tall-oil, pentaester with sorbitol, ethoxylated	4B
67761-98-2		pentaerythritol, and phthalic anhydride	4B
66070-75-5		epichlorohydrin	4B
68605-57-2		epichlorohydrin, rosin and tung oil Eatty acids, tall-oil, polymers with isophthalic acid	4B
68413-17-2		pentaerythritol and walnut oil Eatty acids, tall-oil, polymers with pentaerythritol, phthalic	4B
68038-31-3		anhydride and rosin	4B
68648-20-4		Fatty acids, tall-oil, sesquiesters with sorbitol, ethoxylated	4B
61790-37-2		Fatty acids, tallow	4B
61790-38-3		Fatty acids, tallow, hydrogenated	4B
8005-44-5		Fatty alcohols	4B
860-22-0		FD&C Blue No. 2	4B
25956-17-6		FD&C Red No. 40	4B
7705-08-0		Ferric chloride	4B
10028-22-5		Ferric sulfate	4B
563-71-3		Ferrous carbonate	4B
5905-52-2		Ferrous lactate	4B
7720-78-7		Ferrous sulfate	4B
7782-63-0		Ferrous sulfate heptahydrate	4B
		Fish (raw and processed forms)	4B
97675-81-5		Fish meal	4B
59-30-3		Folic acid	4B
57-48-7	D-	Fructose	4B
		Furandione, polymer with ethylbenzene, sulfonated,	
68037-40-1	2,5-	sodium salt (CA INDEX NAME)	4B
9000-70-8		Gelatin	4B
527-07-1		Gluconic acid, sodium salt	4B
4468-02-4	D-	Gluconic acid, zinc complex	4B
29836-26-8	(beta-D-	Glucoopyranoside, octyl	4B
	(alpha-		
29781-80-4	D-	Glucopyranoside, octyl	4B
59947-99-8	beta-D-	Glucoside, decyl	4B
54549-23-4	D-	Glucoside, octyl	4B
100403-			
38-1		Glycerides, animal, reaction products with sucrose	4B
68424-61-3		Glycerides, C16-18 and C18-unsatd. mono- and di-	4B
68002-70-0		Glycerides, C16-22	4B
100403-39-2		Glycerides, palm-oil, reaction products with sucrose	4B
61789-14-8		Glycerides, tallow sesqui-, hydrogenated	4B

100403-		
40-5	Glycerides, tallow, reaction products with sucrose	4B
100403-		
41-6	Glycerides, vegetable-oil, reaction products with sucrose	4B
102-76-1	Glyceryl triacetate	4B
139-44-6	Glyceryl tris(12-hydroxystearate)	4B
	Glycine, N-(carboxymethyl)-N-[2-	
19019-43-3	[(carboxymethyl)amino]ethyl]-, trisodium salt	4B
	Glycine, N-methyl-, N-coco acyl derivs. (CA INDEX	
68411-97-2	NAME) (Pending)	4B
	Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, sodium salt	
3624-77-9	(9CI) (CA INDEX NAME) (Pending)	4B
97-78-9	Glycine, N-methyl-N-(1-oxododecyl)-	4B
142-48-3	Glycine, N-methyl-N-(1-oxooctadecyl)-	4B
5136-55-0	Glycine, N-methyl-N-(1-oxooctadecyl)-, sodium salt	4B
52558-73-3	Glycine, N-methyl-N-(1-oxotetradecyl)-	4B
30364-51-3	Glycine, N-methyl-N-(1-oxotetradecyl)-, sodium salt	4B
26635-76-7	Glycols, plyethylene, mono(oleylamines)-ethyl ester	4B
	Ground grass seed	4B
9000-01-5	Gum Arabic	4B
12173-47-6	Hectorite	4B
7440-59-7	Helium	4B
111-70-6	1- Hentanol	4R
111700	Hexanedioic acid polymer with 1 4-butanediol and 1 2-	τD
68511-11-5	propanediol didodecanoate	4B
	Hexanedioic acid polymer with 2 2-dimethyl-	
	1.2 propagadial 1.6 boxagadial bydrazing 2	
	hydrauna Q (hydrau mathud) Q mathuda na an ais	
	nydroxy-2-(nydroxymetnyi)-2-metnyipropanoic	
	acid and 1,1'-methylenebis[4-	
	isocyanatocyclohexane], compd. with N,N-	
125826-44-0	diethylethanamine	4B
	Hexanedioic acid, polymer with N-(2-	
	aminoethyl)-1,3-propanediamine, aziridine.	
	(chloromethyl)ovirane 1.2-ethanediamine NIN"-	
	(chloromethy)oxitalie, 1,2-ethaliediamine, 1,1,1 -	
	1,2-emaneolylois[1,3-propaneolamine], formic	
	acid and .alphahydro.omegahydroxypoly(oxy-	
	1,2-ethanediyl)	

114133-44-7		4B
111-27-3	1- Hexanol	4B
928-96-1	3- Hexen-1-ol, (Z)-	4B
25213-02-9	1- Hexene, polymer with ethene	4B
7647-01-0	Hydrogen chloride	4B
2809-21-4	1- Hydroxyethylidene-1,1-diphosphonic acid	4B
70142-34-6	12- Hydroxystearic acid-polyethylene glycol copolymer	4B

120-72-9 7439-89-6 20344-49-4 27458-93-1	1H- Indole Iron (Fe) Iron hydroxide oxide (Fe(OH)O) Isooctadecanol	4B 4B 4B 4B
70425-89-7	Isooctyl acrylate-stearyl methacrylate-acrylic acid copolymer	4B
163520-33-0 50-21-5 814-80-2 515-98-0 97676-23-8 8061-52-7	3- ester Lactic acid Lactic acid, calcium salt (2:1) Lactic acid, monoammonium salt Leaves, apple Licorice extract (licorice and licorice derivates) Lignosulfonic acid, calcium salt	4B 4B 4B 4B 4B 4B
8061-51-6 5989-27-5 8001-26-1	Lignosulfonic acid, sodium salt d- Limonene Linseed oil (boiled)	4B 4B 4B
67746-08-1 66071-03-2 7786-30-3 1309-42-8 18917-93-6 10377-60-3 26099-09-2	Linseed oil, polymd. Linseed oil, polymd.,oxidized Magnesium chloride Magnesium hydroxide Magnesium lactate Magnesium nitrate Maleic acid homopolymer	4B 4B 4B 4B 4B 4B 4B 4B
25119-68-0	Maleic acid monobutyl ester-vinyl methyl ether copolymer	4B
25087-06-3 31307-95-6 9011-16-9 37199-81-8 25266-02-8	Maleic acid monoethyl ester-vinyl methyl ether copolymer Maleic acid monoisopropyl ester-vinyl methyl ether copolymer Maleic anhydride - methylvinyl ether copolymer Maleic anhydride, polymer with 2,4,4-trimethylpentene, sodium salt Maleic anhydride-1-octadecene copolymer	4B 4B 4B 4B 4B
60092-15-1 7785-87-7 1344-43-0 66402-68-4	Maleic anhydride-methylstyrene copolymer, sodium salt Manganese sulfate Manganous oxide Metakaolin Methacrylic acid-methyl methacrylate-polyethylene glycol	4B 4B 4B 4B
63-68-3 103-26-4 61788-60-1	L- Methionine Methyl cinnamate Methyl esters of cottonseed oil	4B 4B 4B 4B
119724-54-8 112-62-9 99-76-3 124-10-7	Methyl methacrylate-methacrylic acid- monomethoxypolyethylene glycol methacrylate copolymer Methyl oleate Methyl p-hydroxybenzoate Methyl tetradecanoate	4B 4B 4B 4B

25153-40-6	Methyl vinyl ether-maleic acid copolymer Methyl vinyl ether-maleic acid copolymer calcium sodium	4B
62386-95-2	salt	4B
	Milk (raw and processed forms)	4B
68514-61-4	Milk, hydrolyzed	4B
	Naphthalenesulfonic acid, polymer with formaldehyde,	
9084-06-4	sodium salt	4B
58846-77-8	N-Decyl glucoside	4B
7697-37-2	Nitric acid	4B
	Nitrogen fixing bacteria	4B
26027-38-3	p- Nonylphenol, ethoxylated	4B
9081-17-8	Nonylphenol, ethoxylated, monoether with sulfuric acid	4B
	Nonylphenol, ethoxylated, monoether with sulfuric acid,	
9014-90-8	sodium salt	4B
	Nonylphenol, ethoxylated, monoether with sulfuric acid,	
57451-03-3	triethanolamine salt	4B
51609-41-7	4- Nonviphenol, ethoxylated, phosphate ester	4B
51811-79-1	Nonylphenol, ethoxylated, phosphate ester	4B
37340-60-6	Nonylphenol, ethoxylated, phosphate ester, sodium salt	4B
	Octadecanoic acid, 12-hydroxy-, homopolymer,	
58128-22-6	octadecanoate	4B
637-12-7	Octadecanoic acid, aluminum salt	4B
143-28-2	9- Octadecen- 1 -ol, (9Z)-	4B
544-60-5	9- Octadecenoic acid (9Z)-, ammonium salt	4B
124-07-2	Octanoic acid	4B
41444-50-2	Octyl glucoside	4B
31800-88-1	Octyloxypoly(ethyleneoxy)ethyl phosphate	4B
72869-69-3	Oils, apricot	4B
8015-73-4		4B
8021-28-1	Oils, Fir	4B
8000-46-2	Oils, geranium	4B
8007-08-7	Oils, ginger	4B
8016-20-4	Oils, grapetruit	4B
68153-10-6	Olis, lard, sulfated, sodium salts,	4B
8022-15-9	Oils, lavandin Oils, Masadamia	4B
128497-20-1	Oils, Macadamia Oils, manhadan, avidizad	4B
0000 50 4		4B
9000-50-4	Oils, oakmoss-resinoid (CA INDEX NAME)	4B
122528 04 4	Oils, orange-juice	4B
132538-94-4		4B
8014-19-5	Oils, paimarosa	4B
8000-25-7	Oils, rosemary	4B
0UZZ-00-0 9016 95 1	Oils, saye	4Ď ⊿D
0010-00-1 9016 06 4		4Ď ⊿D
0010-90-4 9002 72 0		4Ď ⊿D
0002-12-0	Orinons, on Orango oil	4Ď ⊿D
0000-07-9	Orange awaat valansia syt	4D
91100-JU-D	Orange, Sweet, Valencia, ext.	4D

71526-07-3	1- Oxa-4-azaspiro[4.5]decane, 4-(dichloroacetvl)-	4B
68441-17-8	Oxidized polyethylene	4B
61725-89-1	Oxirane methyl-, polymer with oxirane, tridecyl ether	4B
39362-51-1	Oxirane, methyl-, polymer with oxirane, acetate	4B
9038-29-3	Oxirane, methyl-, polymer with oxirane, decyl ether	4B
	Oxirane, methyl, polymer with oxirane, mono C6-C10 alkyl	
68585-15-9	ethers, phosphates	4B
	Oxirane, methyl-, polymer with oxirane, mono[2-(2-	
	butoxyethoxy) ethyl] ether	
85637-75-8		4B
	Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-	
134180-76-0	tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether	4B
	Oxirane, methyl-, polymer with oxirane, mono-2-propenyl	
9041-33-2	ether	4B
	Oxirane, methyl-, polymer with oxirane, monoacetate, 2-	
56090-69-8	propenyl ether	4B
61827-84-7	Oxirane, methyl-, polymer with oxirane, octyl ether	4B
7782-44-7	Oxygen	4B
68476-82-4	Peanut meal	4B
	Peanut shells	4B
	Peanuts (raw and processed forms)	4B
	Pecan shell flour	4B
9000-69-5	Pectin	4B
78-23-9	Pentaerythritol monostearate	4B
115-83-3	Pentaerythritol tetrastearate	4B
8009-03-8	Petrolatum	4B
7664-38-2	Phosphoric acid	4B
7757-93-9	Phosphoric acid, calcium salt (1:1)	4B
7758-23-8	Phosphoric acid, calcium salt (2:1)	4B
7757-86-0	Phosphoric acid, magnesium salt (1:1)	4B
13092-66-5	Phosphoric acid, magnesium salt (2:1)	4B
7757-87-1	Phosphoric acid, magnesium salt (2:3)	4B
7778-53-2	Phosphoric acid, tripotassium salt	4B
7779-90-0	Phosphoric acid, zinc salt (2:3)	4B
8002-09-3	Pine oil	4B
80-56-8	alpha- Pinene	4B
25719-60-2	beta- Pinene homopolymer	4B
	Poly(ov-1 2-ethandiyl) alpha -acetyl- omega -[3-{1 3 3 3-	
125997-17-3	tetramethyl-1-[(trimethylsilyl)oxyldisiloxanyl]propoxy)-	4B
120007 17 0	Poly(oxy-1 2-ethanediyl) alpha -bydro- omega -bydroxy-	ΨD
68908-64-5	mono-C10-12-alkyl ethers, phosphates	4B
	Poly(oxy-1,2-ethanedivl), .alphaalphalphaalpha.'-[[methvl[3-	
68601-19-5	(tridecyloxy)propylliminoldi-2,1-ethanedivl	4B
	Poly(oxy-1,2-ethanedivl), .alphaalpha.'-	_
	phosphinicobis[.omegahydroxy-, di-C13-15-alkvl ethers.	
73050-08-5	sodium salts	4B

	Poly(oxy-1,2-ethanediyl), .alpha3-[1,3,3,3-tetramethyl-1-	
67674-67-3	[(trimethylsilyl)oxy]disiloxanyl]propyl]-omegahydroxy- Poly(oxy-1,2-ethanediyl), .alphahydroomegahydroxy-,	4B
143819-63-0	monoether with (hydroxymethyl)decane Poly(oxy-1,2-ethanediyl), .alphasulfoomega[tris(1-	4B
119432-41-6	phenylethyl)phenoxy]- ammonium salt Poly(oxy-1 2-ethanediyl), alpha-hydro-omega-hydroxy-	4B
59800-21-4	ether with D-glucitol (6:1), (z)-9-octadecenoate	4B
68130-47-2	mono-C8-10-alkyl ethers, phosphates	4B
69364-63-2	hydroxy- Poly(oxy-1,2-ethanediyl), alpha-isotridecyl-omega-bydroxy-	4B
73038-25-2	, phosphate	4B
27252-80-8	(2-propenyloxy)- (CA INDEX NAME) Poly(oxy-1,2-ethanediyl), alpha-methyl-omega- [3-[1,3,3,3-tetramethyl-1-	4B
27306-78-1	[(trimethylsilyl)oxy]disiloxanyl]propoxy]-(2- propenyloxy)- Poly(oxy-1,2-ethanediyl),.alpha	4B
73050-07-4	ethers, sodium salts	4B
27274-31-3	hydroxy-	4B
78330-24-2	Poly(oxy-1,2-ethanediyl),.alphahydroomegahydroxy-, mono-C11-14-isoalkyl ethers, C13-rich, phosphates Poly(oxy-1 2-ethanediyl), alpha -phosphono- omega -	4B
73050-09-6	hydroxy-,C13-15-alkyl ethers, disodium salts Poly(oxy-1 2-ethanediyl), alpha -undecyl- omega -bydroxy-	4B
127036-24-2	, branched and linear Poly(oxy-1,2-ethanediyloxycarbonyl-1,4-phenyleneca	4B
25038-59-9 56388-96-6	rbonyl Poly(oxyethylene)tridecylacetic acid Poly(oxyethylene/oxypropylene) monoalkyl(C6-C10)ether	4B 4B
102900-02-7	sodium fumarate adduct	4B
63231-81-2	Poly(vinylpyrrolidone-1-hexadecene)	4B
27937-16-4	Poly[imino(1-oxo-1,12-dodecanediyl)] Poly[oxy(methyl-1,2-ethanediyl)], alpha-(methylphenyl)-	4B
9064-13-5	omega-hydroxy- Poly[oxy(methyl-1,2-ethanediyl)],.alpha(1-oxopropyl)-	4B
74775-06-7	.omega(tetradecyloxy)- Poly[oxy(methyl-1,2-ethanediyl)],.alpha[2-[bis(2- hydroxyethyl)amino]propyl]omegahydroxy-, ether with.alphahydro.omegahydroxypoly(oxy-1,2-	4B
176022-82-5	ethanediyl) (1:2), mono-C12-16-alkyl ethers	4B
9003-05-8	Polyacrylamide	4B
63428-83-1 25322-68-3	Polyamide resins Polyethylene glycol	4B 4B

9014-85-1	Polyethylene glycol ether with 1,4-diisobutyl-1,4- dimethylbutynediol (2:1) Polyethylene glycol ether with 2.2'-methylenebis(4-(tert-	4B
41928-09-0	octyl)phenol) (2:1)	4B
60874-89-7	Polyethylene glycol ether with methylenebis(diamylphenol)	4B
55069-68-6	dodecanoic and oleic acids	4B
99734-09-5	Polyethylene alycol mono(tristyrylphenyl)ether	4R
00101000	Polyethylene glycol nonvlphenyl ether phosphate	
59139-23-0	ethanolamine salt	4B
	Polvethylene glycol nonviphenyl ether phosphate	
67922-57-0	magnesium salt	4B
	Polyethylene glycol nonylphenyl ether phosphate	
52503-15-8	potassium salt	4B
	Polyethylene glycol-polyisobutenyl anhydride-tall oil fatty	
68650-28-2	acid copolymer	4B
	Polyethylene glycol-polyisobutenyl anhydride-tall oil fatty	
132175-04-3	acid copolymer	4B
9003-68-3	Polyethylene terephthalate	4B
24938-04-3	Polyethylene terphthalate - polyethylene isophthalate film	4B
9038-95-3	Polyethylene-polypropylene glycol, monobutyl ether	4B
63705-03-3	Polyglycerol diisostearate	4B
66070-87-9	Polyglyceryl phthalate ester of coconut oil fatty acid	4B
	Polymer of n-butyl acrylate, methyl methacryalate,	
	methacrylic acid and aminopropyl methacrylate	4B
	Polymer of vinyl acetate, n-butyl acrylate, vinyl chloride,	
30938-41-1	and acrylic acid	4B
9003-49-0	Polymerized butyl acrylate	4B
9011-14-7	Polymethyl methacrylate	4B
9036-19-5	Polyoxyethylene (1,1,3,3-tetramethylbutyl)phenyl ether	4B
60828-78-6	Polyoxyethylene 2,6,8-trimethyl-4-nonyl ether	4B
9014-93-1	Polyoxyethylene dinonylpheno	4B
9005-07-6	Polyoxyethylene dioleate	4B
9005-08-7	Polyoxyethylene distearate	4B
20030-40-0	Polyoxyethylene docosyl einer	4D 4D
9002-92-0	Polyoxyethylene dodecyl mono etner	4D 4D
9014-92-0	Polyoxyethylene addecylpheno Rolyoxyethylene aster of resin	4D 10
51102 00 7	Polyoxyethylene ester or rosin Relyoxyethylene glycerin menocleate	4D 10
0001-08-2	Polyoxyethylene mono(cis-9-octadecenyl) other	4D 1R
9004-90-2 26183-52-8	Polyoxyethylene monodecyl ether	4D 1R
26636-30-5	Polyoxyethylene monoeicosyl ether	4D /R
20030-39-3	Polyoxyethylene monobexadecyl ether	4D /R
9004-93-9	Polyoxyethylene monolaurate	4D 4R
9004-01-3	Polyoxyethylene monooctadecyl ether	4D 4R
9004-96-0	Polyoxyethylene monooleate	4R
9004-99-3	Polyoxyethylene monostearate	4R
27306-79-2	Polyoxyethylene monotetradecyl ether	4B
9016-45-9	Polyoxyethylene nonylpheno	4B
51617-79-9	Polyoxyethylene octadecylpheno	4B
-		

37280-82-3	Polyoxyethylene polyoxypropylene phosphate	4B
9005-64-5	Polyoxyethylene sorbitan monolaurate	4B
9005-65-6	Polyoxyethylene sorbitan monooleate	4B
9005-66-7	Polyoxyethylene sorbitan monopalmitate	4B
9005-67-8	Polyoxyethylene sorbitan monostearate	4B
9005-70-3	Polyoxyethylene sorbitan trioleate	4B
9005-71-4	Polyoxyethylene sorbitan tristearate	4B
31307-92-3	Polyoxyethylene sorbitol	4B
57171-56-9	Polyoxyethylene sorbitol hexaoleate	4B
9011-29-4	Polyoxyethylene sorbitol hexastearate	4B
61824-34-8	Polyoxyethylene sorbitol pentaoleate	4B
63089-86-1	Polyoxyethylene sorbitol tetraoleate	4B
163436-84-8	Polyoxyethylene tristyrylphenol phosphate, potassium salt	4B
9003-11-6	Polyoxyethylene-polyoxypropylene copolymer	4B
37286-64-9	Polyoxypropylene monomethyl ether	4B
25231-21-4	Polyoxypropylene monostearyl ether	4B
	Polyphosphoric acids, esters with polyethylene glycol	
68458-49-1	nonylphenyl ether	4B
9003-07-0	Polypropylene	4B
25322-69-4	Polypropylene glycol	4B
31394-71-5	Polypropylene glycol monooleate	4B
9003-53-6	Polystyrene resin	4B
53504-41-9	Polyurethane	4B
9003-20-7	Polyvinyl acetate	4B
9002-89-5	Polyvinyl alcohol	4B
9002-86-2	Polyvinyl chloride resin	4B
9003-39-8	Polyvinylpyrrolidone	4B
25086-89-9	Polyvinylpyrrolidone-vinyl acetate copolymer	4B
61789-30-8	Potassium coconut oil soap	4B
1310-58-3	Potassium hydroxide	4B
14977-37-8	Potassium magnesium sulfate (Mg2K2(SO4)3)	4B
7758-11-4	Potassium phosphate (dibasic)	4B
7778-77-0	Potassium phosphate, monobasic	4B
69669-25-6	Potassium salts of fatty acids (C12-C20)	4B
67701-09-1	Potassium salts of fatty acids (C8-18 and C18 unsatd.)	4B
59766-31-3	Potassium titanium oxide (K2Ti8O17)	4B
	Propanesulfonic acid, 2-hydroxy-3-(2-propenyloxy)-	
78266-09-8	1- ,monosodium salt, polymer with 2-propenoic acid	4B
	Propanetricarboxylic acid, 2-hydroxy-, iron (3+) salt (1:1),	
17217-76-4	1,2,3- trihydrate	4B
74504-64-6	1.2.3- Propanetriol, homopolymer, dodecanoate	4B
79-09-4	Propanoic acid	4B
67-63-0	2- Propanol	4B
71-23-8	1- Propanol	4B
	Propenenitrile, polymer with 1.2.4-triethenvlcvclohexane.	
109961-42-4	2- hydrolyzed	4B
9003-18-3	2- Propenenitrile, polymer with 1.3-butadiene	4B
	Propenenitrile, polymer with 1.3-butadiene and	
9003-56-9	2- ethenylbenzene	4R

24938-16-7	Propenoic acid, 2-methyl-, butyl ester, polymer with 2- (dimethylamino)ethyl 2-methyl-2-propenoate and methyl 2- 2- methyl-2-propenoate	4B
	Propenoic acid, 2-methyl-, dodecyl ester, polymer with eicosyl 2-methyl-2-propenoate, hexadecyl 2-methyl-2- propenoate, octadecyl 2-methyl-2-propenoate, pentadecyl 2 methyl 2 propenoate, tetradecyl 2 methyl 2 propenoate	
63150-03-8	2- and tridecyl 2-methyl-2-propenoate Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-	4B
71394-17-7	propenoate, ethenylbenzene, 2-ethylhexyl 2-propenoate 2- and methyl 2methyl-2-propenoate	4B
06070 77 0	Propenoic acid, 2-methyl-, polymer with ethenylbenzene,	4 D
20873-77-8	Propenoic acid, 2-methyl-, polymer with ethyl 2- propenoic acid, 2-methyl-, polymer with ethyl 2-	4B
55989-05-4	2- ammonium salt Propenoic acid. 2-methyl-, polymer with ethyl 2-	4B
41487-53-0	2- propenoate, sodium salt	4B
90511 70 F	Propenoic acid, 2-methylpolymer with ethyl 2-propenoate	1 D
09511-79-5	Propenoic acid, butyl ester, polymer with ethenylbenzene	4D
30795-23-4	2- and 2-ethylhexyl 2-propenoate Propenoic acid, butyl ester, polymer with ethyl 2-	4B
29437-34-1	2- propenoate and 2-propenenitrile	4B
25608-12-2	2- Propenoic acid, homopolymer, potassium salt Propenoic acid, polymer with 1,3-butadiene and	4B
25085-39-6	2- ethenylbenzene Propenoic acid, polymer with 2-hydroxypropyl 2-	4B
86864-96-2	2- propenoate and sodium 2-propenoate Propenoic acid, polymer with 2-propanol, reaction	4B
114033-68-0	2- products with sodium acrylate	4B
9033-79-8	2- Propenoic acid, polymer with sodium 2-propenoate	4B
94-13-3	Propyl p-hydroxybenzoate	4B
57-55-6	Propylene glycol	4B
9005-37-2	Propylene glycol alginate	4B
58-08-2	1H- Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl-	4B
12269-78-2	Pyrophyllite	4B
28211-18-9	2- Pyrrolidinone, 1-ethenyl-, polymer with 1-eicosene	4B
73891-99-3	Rape oil, Me ester	4B
8023-77-6	Resins, oleo-, capsicum	4B
81-88-9	Rhodamine B (conforming to 40 CFR 180.2020)	4B
	Rosin, fumarated, polymer with ethylene glycol and	45
68152-57-8	pentaerythritol (CA INDEX NAME)	4B
68333-69-7	Rosin, maleated, polymer with pentaerythritol	4B
	Sano	4B ⊿⊡
	Secondaria 111 trimothyl N (trimothylaiky) kystystysis	4B
69000 20 6	Silanamine, 1,1,1-trimetryi-iv-(trimetryisiiyi)-, nydrolysis	4 D
00909-20-0	products with silica Silana, dichlorodimathul, repetion products with silica	4Ď ⊿₽
00011-44-9	Shane, dichlorodimetriyi-, reaction products with silica	4D

1343-98-2	Silicic acid	4B
13870-28-5	Silicic acid (H2Si2O5), disodium salt	4B
6834-92-0	Silicic acid (H2SiO3), disodium salt	4B
15593-82-5	Silicic acid (H6Si2O7), hexasodium salt	4B
10213-79-3	Silicic acid, disodium salt, pentahydrate	4B
1312-76-1	Silicic acid, potassium salt	4B
1344-09-8	Silicic acid, sodium salt	4B
63148-62-9	Silicones and siloxanes, dimethyl	4B
	Silkworm pupae	4B
	Siloxanes and silicones, 3-hydroxypropyl Me, ethers with	
117272-76-1	polyethylene glycol mono-Me ether	4B
	Siloxanes and silicones, di-Me, 3-hydroxypropyl Me,	
68554-64-3	ethers with polyethylene glycol mono-Me ether	4B
	Siloxanes and silicones, di-Me, 3-hydroxypropyl Me,	
68938-54-5	ethers with polyethylene glycol mono-Me ether	4B
	Siloxanes and silicones, di-Me, 3-hydroxypropyl Me,	
67762-87-2	ethers with polyethylene-polypropylene glycol	4B
	Siloxanes and silicones, di-Me, 3-hydroxypropyl Me,	
68440-66-4	ethers with polypropylene glycol mono-Bu ethe	4B
	Siloxanes and silicones, di-Me, 3-hydroxypropyl Me,	
68937-55-3	ethoxylated propoxylated	4B
	Siloxanes and silicones, di-Me, Me hydrogen, reaction	
68037-62-7	products with polyethylene glycol monoacetate	4B
	Siloxanes and silicones, di-Me, hydroxy-terminated, ethers	
67762-96-3	with polypropylene glycol mono-Bu ether	4B
67701-10-4	Soap: (Fatty acids, C8-18 and C18-unsatd., sodium salts)	4B
7758-16-9	Sodium acid pyrophosphate	4B
25085-02-3	Sodium acrylate, polymer with acrylamide	4B
1302-42-7	Sodium aluminate	4B
7785-88-8	Sodium aluminum phosphate	4B
134-03-2	Sodium ascorbate	4B
577-11-7	Sodium bis(2-ethylhexyl) sulfosuccinate	4B
7681-38-1	Sodium bisulfate	4B
7647-15-6	Sodium bromide	4B
126-96-5	Sodium diacetate	4B
7558-80-7	Sodium dihydrogen phosphate	4B
1639-66-3	Sodium dioctyl sulfosuccinate	4B
7681-49-4	Sodium fluoride	4B
10124-56-8	Sodium hexametaphosphate	4B
1310-73-2	Sodium hydroxide	4B
7681-53-0	Sodium hypophosphite	4B
7631-99-4	Sodium nitrate	4B
7632-05-5	Sodium phosphate	4B
137-40-6	Sodium propionate	4B
533-96-0	Sodium sesquicarbonate	4B
8052-48-0	Sodium tallow soap	4B
868-18-8	Sodium tartrate	4B
7772-98-7	Sodium thiosulfate	4B
10102-17-7	Sodium thiosulfate, pentahydrate	4B
54116-08-4	Sodium tridecylpoly(oxyethylene) sulfate	4B
7758-29-4	Sodium tripolyphosphate	4B

110-44-1	Sorbic acid	4B
26266-57-9	Sorbitan monohexadecanoate	4B
1338-41-6	Sorbitan monostearate	4B
68646-20-4	Sorbitol tall oil fatty acid sesquiester, ethoxylated	4B
68513-95-1	Soy flour	4B
68308-36-1	Soybean meal	4B
61791-23-9	Soybean oil, ethoxylated	4B
	Soybean oil, polymer with ethylene glycol, glycerol,	
67762-09-8	pentaerythritol and phthalic anhydride	4B
	Soybean oil, polymer with isophthalic acid, linseed oil and	
68309-49-9	trimethylolpropane	4B
66071-16-7	Soybean oil, polymer with maleic anhydride	4B
	Soybean oil, polymer with phthalic anhydride, trimellitic	
68131-29-3	anhydride and trimethylolpropane	4B
	Soybeans (raw and processed forms)	4B
8008-79-5	Spearmint oil	4B
63798-35-6	Starch acetate adipate	4B
65996-63-6	Starch, acid-hydrolyzed	4B
9063-38-1	Starch, carboxymethyl ether, sodium salt	4B
9011-13-6	Styrene - maleic anhydride resin	4B
25085-34-1	Styrene acrylic acid copolymer	4B
	Styrene, polymer with methacrylic acid and	
68630-83-1	polyethoxylated (Z)-2-butenedioic acid	4B
9003-70-7	Styrene-divinyl benzene copolymer resin matrix	4B
	Styrene-methyl methacrylate-2-ethylhexyl acrylate	
25750-06-5	copolymer	4B
8002-33-3	Sulfated castor oil	4B
10025-67-9	Sulfur chloride	4B
	Sulfur Coated Urea	4B
7664-93-9	Sulfuric acid	4B
68919-54-0	Suntiower-oil fatty acids, Me ester	4B
8028-48-6		4B
14807-96-6		4B
8030-12-4	Tallow, nydrogenated	4B
104133-09-7	I etraetnoxysilane, polymer with nexamethyldislioxane	4B
811-97-2	1,1,1,2- Tetranuoroetnane	4B
7320-34-3 59 56 0	Tetrapolassium pyrophosphale	4D
56-56-0		4D
13463-67-7	Titanium dioxide	4D /R
13403-07-7	Tree puts (raw and processed forms)	4D /R
	Triazine-2.4.6-triamine, polymer with formaldehyde	40
68002-20-0	1 3 5- methylated	4R
7758-87-4	Tricalcium phosphate	4R
26915-70-8	Tridecanol, ethoxylated, phospate ester	4R
15468-32-3	Tridymite $(SiO2)$	4R
10100 02 0	Triethanolamine compd with poly(oxyethylene)	0
105362-40-1	tristyrylphenyl ether phosphate	4R
1317-95-9	Tripoli	4B
	· · · F - · ·	
	Alpha-Tris[1-(phenyl)ethyl}phenyl]-omega-	
132580-45-1	[2,4,6- hydroxypoly(oxyethylene)poly(oxypropylene) copolymer	4B

7601-54-9	Trisodium phosphate	4B
73-22-3	L- Tryptophan	4B
9011-05-6	Urea-formaldehyde resin	4B
	Vinyl acetate, polymer with methyl acrylate and methyl	
28430-58-2	methacrylate	4B
25067-01-0	Vinyl acetate, polymer with n-butyl acrylate	4B
25085-41-0	Vinyl acetate-butyl acrylate-acrylic acid terpolymer	4B
25213-24-5	Vinyl alcohol-vinyl acetate copolymer	4B
9003-22-9	Vinyl chloride - vinyl acetate copolymer	4B
25086-48-0	Vinyl chloride, vinyl acetate and vinyl alcohol copolymer	4B
28062-44-4	Vinyl pyrrolidone-acrylic acid copolymer	4B
	Vinyl pyrrolidone-dimethylaminoethylmethacrylate	
30581-59-0	copolymer	4B
25086-29-7	Vinylpyrrolidinone-styrene polymer	4B
68-26-8	Vitamin A	4B
12001-76-2	Vitamin B complex	4B
68-19-9	Vitamin B12	4B
67-97-0	Vitamin D3	4B
	Wheat (raw and processed forms)	LISTNO
130498-22-5	Wheat flour	4B
68608-58-2	Whey	4B
	Wood flour	4B
58-86-6	D- Xylose	4B
7440-66-6	Zinc (metallic)	4B
7779-88-6	Zinc nitrate	4B

Appendix 2: Safer Chemical Ingredient List¹

SCIL CAS Name				
Rating				
Antimicrobial Actives				
Green 77-92- Citric acid, anhydrous				
[Circle] 9				
Green 64-17- Ethanol				
[Circle] 5				
Green 7722- Hydrogen peroxide				
[Circle] 84-1				
Green 67-63- Isopropanol				
[Circle] 0				
Green 79-33- L-Lactic acid				
[Circle] 4				
Green 79-21- Peracetic acid				
[Circle] 0				
Green 7681- Sodium bisulfate				
[Circle] 38-1				
Chelating Agent				
Half Green 181828 2-Butenedioic acid (2Z)-,				
[Circle] -06-8 ammonium salt (1:?),				
homopolymer, hydrolyzed, sodiu	m			
salts				
Green 164462 Alanine, N,N-bis(carboxymethyl)-	-,			
[Circle] -16-2 sodium salt (1:3)				
Half Green 144538 Aspartic acid, N-(1,2-				
[Circle] -83-0 dicarboxyethyl)-, tetrasodium sal	t			
Green 1456// Butanedioic acid, 2-methylene-,	م دا			
[Circle] 2-91-0 polymer with 2-propendic acid al	na			
socium 2-metnyi-2-[(1-0x0-2-				
propen-1-yi)aminoj-1-				
propanesuironate				
Green 77-02. Citric acid anhudrous				
[Circle] 9				
Green 526- D-Gluconic scid				
Green 17140 D-glycero-D-gulo-Hentonic scid				
[Circle] $60-2$ calcium salt (2.1)				
Green 13007- D-glycero-D-gulo-Hentonic acid				
[Circle] 85-7 monosodium salt				
Green 3609- Dinotassium hydrogen citrato				
Green 3609- Dipotassium hydrogen citrate				
Green 3609- Dipotassium hydrogen citrate [Circle] 96-9 Green 79-33- L-Lactic acid				
Green3609-Dipotassium hydrogen citrate[Circle]96-9Green79-33-L-Lactic acid[Circle]4				
Green3609-Dipotassium hydrogen citrate[Circle]96-9Green79-33-L-Lactic acid[Circle]4Green31138-Monosodium D-glucobentonate				

Half Green	20846-	N,N'-Ethylenediamine disuccinic
[Circle]	91-7	acid
Green	866-	Potassium citrate, anhydrous
	84-2	
Green	0100-	Potassium citrate, mononydrate
Croop	05-0	Sodium citrato, anhydrous
	08-04- 2	Sourdin citrate, annyurous
Green	6132-	Sodium citrate, dihydrate
[Circle]	04-3	
Half Green	178949	Sodium ethylene diamine
[Circle]	-82-1	disuccinate
Green	136205	Sodium glucarate
[Circle]	3-75-5	
Green	527-	Sodium gluconate
[Circle]	07-1	
Green	51981-	Tetrasodium N,N-
[Circle]	21-6	bis(carboxylatomethyl)-L-
		glutamate
Colorants		
Yellow	63589-	2-Anthracenesulfonic acid, 1-
[Irlangle]	10-6	amino-9,10-dinydro-4-[(4-
		sodium salt (1:1)
		, source (1.1)
Half Green	70210-	C. I. Acid Violet 54
Half Green [Circle]	70210- 05-8	C. I. Acid Violet 54
Half Green [Circle] Half Green	70210- 05-8 11006-	C. I. Acid Violet 54 C.I. 75810
Half Green [Circle] Half Green [Circle]	70210- 05-8 11006- 34-1	C. I. Acid Violet 54 C.I. 75810
Half Green [Circle] Half Green [Circle] Yellow	70210- 05-8 11006- 34-1 6408-	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145
Half Green [Circle] Half Green [Circle] Yellow [Triangle]	70210- 05-8 11006- 34-1 6408- 80-6	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78 2	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow [Triangle]	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78-2 6424-	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow [Triangle] Yellow	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78-2 6424- 85-7	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25 C.I. Acid Blue 40
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78-2 6424- 85-7 4474-	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25 C.I. Acid Blue 40 C.I. Acid Blue 80
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle]	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78-2 6424- 85-7 4474- 24-2	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25 C.I. Acid Blue 40 C.I. Acid Blue 80
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78-2 6424- 85-7 4474- 24-2 28983-	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25 C.I. Acid Blue 40 C.I. Acid Blue 80 C.I. Acid Blue 93
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle]	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78-2 6424- 85-7 4474- 24-2 28983- 56-4	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25 C.I. Acid Blue 40 C.I. Acid Blue 80 C.I. Acid Blue 93
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78-2 6424- 85-7 4474- 24-2 28983- 56-4 5850-	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25 C.I. Acid Blue 40 C.I. Acid Blue 80 C.I. Acid Blue 93 C.I. Acid Brown 14, disodium salt
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle]	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78-2 6424- 85-7 4474- 24-2 28983- 56-4 5850- 16-8	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25 C.I. Acid Blue 40 C.I. Acid Blue 80 C.I. Acid Blue 93 C.I. Acid Brown 14, disodium salt
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Half Green	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78-2 6424- 85-7 4474- 24-2 28983- 56-4 5850- 16-8 19381-	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25 C.I. Acid Blue 40 C.I. Acid Blue 80 C.I. Acid Blue 93 C.I. Acid Brown 14, disodium salt
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Half Green [Circle]	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78-2 6424- 85-7 4474- 24-2 28983- 56-4 5850- 16-8 19381- 50-1	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25 C.I. Acid Blue 40 C.I. Acid Blue 80 C.I. Acid Blue 93 C.I. Acid Brown 14, disodium salt C.I. Acid Green 1
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Half Green [Circle] Yellow	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78-2 6424- 85-7 4474- 24-2 28983- 56-4 5850- 16-8 19381- 50-1 1320-	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25 C.I. Acid Blue 40 C.I. Acid Blue 80 C.I. Acid Blue 93 C.I. Acid Brown 14, disodium salt C.I. Acid Green 1 C.I. Acid Orange 24, monosodium
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Half Green [Circle] Yellow [Triangle]	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78-2 6424- 85-7 4474- 24-2 28983- 56-4 5850- 16-8 19381- 50-1 1320- 07-6	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25 C.I. Acid Blue 40 C.I. Acid Blue 80 C.I. Acid Blue 93 C.I. Acid Brown 14, disodium salt C.I. Acid Green 1 C.I. Acid Orange 24, monosodium salt
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Half Green [Circle] Yellow [Triangle] Half Green [Circle] Yellow	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78-2 6424- 85-7 4474- 24-2 28983- 56-4 5850- 16-8 19381- 50-1 1320- 07-6 3567- 62 2	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25 C.I. Acid Blue 40 C.I. Acid Blue 80 C.I. Acid Blue 93 C.I. Acid Brown 14, disodium salt C.I. Acid Green 1 C.I. Acid Green 1 C.I. Acid Orange 24, monosodium salt C.I. Acid Red 14
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Half Green [Circle] Yellow [Triangle] Half Green [Circle] Yellow	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78-2 6424- 85-7 4474- 24-2 28983- 56-4 5850- 16-8 19381- 50-1 1320- 07-6 3567- 69-9	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25 C.I. Acid Blue 40 C.I. Acid Blue 80 C.I. Acid Blue 93 C.I. Acid Brown 14, disodium salt C.I. Acid Green 1 C.I. Acid Orange 24, monosodium salt C.I. Acid Red 14
Half Green [Circle] Half Green [Circle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Yellow [Triangle] Half Green [Circle] Yellow [Triangle] Half Green [Circlo]	70210- 05-8 11006- 34-1 6408- 80-6 6408- 78-2 6424- 85-7 4474- 24-2 28983- 56-4 5850- 16-8 19381- 50-1 1320- 07-6 3567- 69-9 12220- 28 0	C. I. Acid Violet 54 C.I. 75810 C.I. Acid Blue 145 C.I. Acid Blue 25 C.I. Acid Blue 40 C.I. Acid Blue 80 C.I. Acid Blue 93 C.I. Acid Brown 14, disodium salt C.I. Acid Green 1 C.I. Acid Orange 24, monosodium salt C.I. Acid Red 14 C.I. Acid Red 289

¹ The most current list is available at: <u>https://www.epa.gov/saferchoice/safer-ingredients</u>. This list was downloaded 3/29/2017.

Green	3520-	C.I. Acid Red 52	Yellow	2783-	FD&C Yellow No. 6
[Circle]	42-1		[Triangle]	94-0	
Half Green	6408-	C.I. Acid Violet 34	Yellow	15790-	FD&C Yellow No. 6-aluminum lake
[Circle]	63-5		[Triangle]	07-5	
Yellow	4430-	C.I. Acid Violet 43	Half Green	27344-	Fluorescent Brightener 230
[Triangle]	18-6		[Circle]	06-5	
Yellow	72243-	C.I. Acid Violet 48	Green	16090-	FWA-1
[Triangle]	90-4		[Circle]	02-1	
Yellow	6359-	C.I. Acid Yellow 17	Green	13463-	Titanium (IV) oxide
[Triangle]	98-4		[Circle]	67-7	()
Half Green	1330-	C.I. Direct Blue 86	Defoamers		
[Circle]	38-7		Green	2004-	2-Methyloctanoic acid
Vellow	3626-	C Direct Orange 26		02 1	
[Triangle]	36-6		Crear	93-1 C01F4	Alashala C10.12 otherwisted
Croon	16470	C L Eluaraccont Brightonor 220	Green	08154-	Alconois, C10-12, ethoxylated
Green	10470-	C.I. Fluorescent Brightener 220	[Circie]	97-2	propoxylated
[Circle]	24-9		Green	1302-	Bentonite
Green	4193-	C.I. Fluorescent Brightener 28,	[Circle]	78-9	
[Circle]	55-9	sodium salt	Half Green	67762-	Dimethyl silicone polymer with
Green	4404-	C.I. Fluorescent Brightening Agent	[Circle]	90-7	silica
[Circle]	43-7	28	Green	9003-	Poloxalene
Yellow	4548-	C.I. Food Red 1	[Circle]	11-6	
[Triangle]	53-2		Half Green	70131-	Polydimethylsiloxane, hydroxy-
Half Green	8028-	C.I. Natural Brown 10	[Circle]	67-8	terminated
[Circle]	89-5		Yellow	63148-	Polydimethylsiloxanes
Green	147-	C.I. Pigment Blue 15	[Triangle]	62-9	
[Circle]	14-8		Green	9004-	Polyethylene glycol stearate
Green	1328-	C.I. Pigment Green 7	[Circle]	99-3	
[Circle]	53-6		Yellow	9011-	Polynoxylin
Yellow	12225-	C.I. Pigment Yellow 100	[Triangle]	05-6	
[Triangle]	21-7		Green	9082-	Propylene oxide ethylene oxide
Yellow	6358-	C.I. Solvent Green 7	[Circle]	00-2	polymer, ether with glycerol (3:1)
[Triangle]	69-6		[]		p = 1,, =, = 8., = = . (= .=,
Half Green	63950-	C.I.Direct Blue 199	Vellow	68937-	Silovanes and Silicones di-Me 3-
[Circle]	02-7		[Triangle]	55-3	hydroxypropyl Me, ethoxylated
Half Green	90295-	Copper phthalocyanine sulfamoyl	[Indigic]	55 5	nronoxylated
	11_7	sulfo derivs sodium salts	Half Croop	69110	Silovanos and Siliconos, di mothyl
Vollow	1102	D&C Groop No. 5		70.0	Shokanes and Shicones, di-methyl,
[Triangle]	4403- 00_1	Dat Green No. 5	[CITCIE]	70-0	nydroxy-terminated, reaction
Vallaw	2567	D&C Dod No. 22			products with
Tellow	3507-	Dac Red No. 33			chlorotrimetryisliane, hydrochloric
	00-0	EDB C Dhua Na (1 aluminum lalua			aciu, iso-pi alc. allu soululli silicate
Yellow	68921-	FD&C Blue NO. 1 aluminum lake			
[Iriangle]	42-6				
Green	3844-	FD&C Blue No.1	Emollients		
[Circle]	45-9		Green	8002-	Cocoa butter
Half Green	9079-	FD&C Blue No.1, PEG Derivative	[Circle]	31-1	
[Circle]	33-8		Green	8016-	Cuburbita pepo seed oil
Yellow	2353-	FD&C Green No. 3	[Circle]	49-7	
[Triangle]	45-9		Green	27138-	Dipropylene glycol dibenzoate
Green	25956-	FD&C Red 40	[Circle]	31-4	
[Circle]	17-6		Green	8008-	Fats and Glyceridic oils, sesame
Green	1934-	FD&C Yellow No. 5	[Circle]	74-0	
[Circle]	21-0		Green	91744-	Glycerides, C16-18 and C18-unsatd.
			[Circle]	09-1	mono-

Green	67701-	Glycerides, C8-18 and C18-unsatd.	Yellow	9001-	Rizolipase
[Circle]	28-4		[Triangle]	62-1	
Green	6309-	Isoamyl laurate	Green	141-	Sodium formate
[Circle]	51-9		[Circle]	53-7	
Green	142-	Isopropyl palmitate	Yellow	9014-	Subtilisins
[Circle]	91-6		[Triangle]	01-1	
Green	111-	Methyl laurate	Fragrance		
[Circle]	82-0		Yellow	110-	2-Methyl-undecanal
Green	8023-	Oils, palm kernel	[Triangle]	41-8	
[Circle]	79-8		Yellow	65405-	1,2,3,4,4a,7,8,8a-Octahydro-
Green	68917-	Oils, wheat	[Triangle]	72-3	2,4a,5,8a-tetramethyl-1-naphthyl
[Circle]	73-7				formate
Green	91078-	Orbignya oleifera seed oil			
[Circle]	92-1		Yellow	166432	1,3-Undecadien-5-yne
Green	111-	Squalane	[Triangle]	-52-6	
[Circle]	01-3		Yellow	150-	1,4-dimethoxybenzene
Green	8001-	Sunflower oil	[Triangle]	78-7	
[Circle]	21-6		Yellow	112-	10-Undecenal
Enzymes and	d Stabilizer	's	[Triangle]	45-8	
Green	57-55-	1,2-Propanediol	Half Green	112-	1-Decanol
[Circle]	6		[Circle]	30-1	
Yellow	9000-	alpha-Amylase	Green	112-	1-Dodecanol
[Triangle]	90-2		[Circle]	53-8	
Yellow	9000-	Amylase	Half Green	143-	1-Nonanol
[Triangle]	92-4		[Circle]	08-8	
Yellow	9000-	Amylase bacterial	Half Green	111-	1-Octanol
[Triangle]	85-5		[Circle]	87-5	
Yellow	9080-	Bacillolysin Bacillus	Half Green	112-	1-Tetradecanol
[Triangle]	56-2	metalloprotease	[Circle]	72-1	
Yellow	1303-	Borax	Half Green	112-	1-Undecanol
[Triangle]	96-4		[Circle]	42-5	
Yellow	1330-	Boron sodium oxide	Vellow	4674-	2(3H)-Nanhthalenone 4 4a 5 6 7 8-
[Triangle]	43-4		[Triangle]	50-4	hexabydro-4 4a-dimethyl-6-(1-
Green [Circle]	10043- 52-4	Calcium chloride, anhydrous	[Indialc]	50 4	methylethenyl)-, (4R,4aS,6R)-
Green	10035-	Calcium chloride, dibydrate			
[Circle]	04-8	calciam emonac, amyarate	Malla	12254	
Green	544	Calcium formate	Yellow	13254-	2,6-Dimethyi-2-neptanoi
	17-2	calcium formate	[Irlangle]	34-7	
Vellow	17 Z	Cellulase	Yellow	93-08-	2-Acetyinaphthalene
[Triangle]	5/1-8	Centrase	[Irlangle]	3	
Croon	54-0 E0 E1	DI Mathianina	Yellow	5471-	2-Butanone, 4-(4-hydroxyphenyl)-
	0	DE-Methonne	[Iriangle]	51-2	
Vallaw	0014	ludrataca, phacphaopalpuruurata	Yellow	137-	2-Heptylcyclopentan-1-one
Trianglal	9014-	nyuratase, phosphoenoipyruvate	[Triangle]	03-1	
[Inangie]	08-8	Name and the bate	Yellow	51115-	2-Methylbutyl salicylate
Yellow	3/288-	Mannanase, endo-1,4-beta-	[Triangle]	63-0	
[iriangie]	54-3		Yellow	13491-	2-tert-Butylcyclohexanol
Yellow	10043-	Urthodoric acid	[Triangle]	79-7	
[iriangle]	35-3		Yellow	67633-	3-cis-Hexenyl methyl carbonate
Yellow	9032-	Polygalacturonase	[Triangle]	96-9	
[Iriangle]	/5-1		Half Green	562-	3-Cyclohexen-1-ol, 4-methyl-1-(1-
Yellow	9001-	Proteinase	[Circle]	74-3	methylethyl)-
Triangle	92-7				

Yellow	1423-	3-Cyclohexene-1-carboxaldehyde,	Yellow	3681-	cis-3-Hexenylacetate
[Triangle]	46-7	2,4,6-trimethyl-	[Triangle]	71-8	
			Yellow	106-	Citronellal
Yellow	81782-	3-Decen-5-ol, 4-methyl-	[Triangle]	23-0	
[Triangle]	77-6		Yellow	106-	Citronellol
Yellow	65405-	3-Hexenyl salicylate	[Triangle]	22-9	
[Triangle]	77-8		Yellow	7492-	Citronelloxyacetaldehyde
Yellow	22457-	3-Methyl-5-heptanone oxime	[Triangle]	67-3	
[Triangle]	23-4		Yellow	150-	Citronellyl acetate
Yellow	54830-	4,7-Methano-1H-indenol,	[Triangle]	84-5	
[Triangle]	99-8	3a,4,5,6,7,7a-hexahydro-, acetate	Yellow	122-	Cuminaldehyde
			[Triangle]	03-2	
Yellow	32210-	4-t-Butylcyclohexyl acetate	Yellow	81752-	Cyclohexanecarboxylic acid, 2,2-
[Triangle]	23-4		[Triangle]	87-6	dimethyl-6-methylene-, methyl
Yellow	98-52-	4-tert-Butylcyclohexanol			ester
[Triangle]	2		Yellow	70788-	Cyclohexanepropanol, 2.2.6-
Half Green	53219-	7-Octen-2-ol. 2-methyl-6-	[Triangle]	30-6	trimethylalphapropyl-
[Circle]	21-9	methylene-, dihydro deriy.	[0]		,
Yellow	13019-	9-Decen-1-ol	Yellow	38462-	Cyclohexanone 2-(1-mercanto-1-
[Triangle]	22-2		[Triangle]	22-5	methylethyl)-5-methyl-
Vellow	127-	alnha-lonone	[Indigic]	22 5	methylethyly 5 methyl
[Triangle]	127= //1_2	apha-lonone	Vollow	1010	Cyclopantanana 2 pantyl
Vollow	41-5	alaba komathylionana	Triangle	4019- 67-1	Cyclopentatione, 2-pentyl-
Trianglal		apria-isomethynonone	Vallaw	112	Deceldebude
Vallaw	51-5 7770	alaba Mathul janana	Trianglal	11Z- 21 2	Decaldenyde
Triongle	7779-	apria-internyi lonone	[Triangle]	51-2	
[Triangle]	30-8		Yellow	5/3/8-	delta-Damascone
Hair Green	98-55- F	alpha-Terpineol	[Irlangle]	68-4 705	
[Circle]	5		Yellow	/05-	delta-Decalactone
Yellow	628-	Amyl acetate	[Iriangle]	86-2	
[Iriangle]	63-7		Yellow	713-	delta-Dodecalactone
Yellow	2050-	Amyl salicylate	[Iriangle]	95-1	
[Triangle]	08-0		Yellow	68912-	Dicyclopentadiene propionate
Half Green	28219-	Balinol	[Triangle]	13-0	
[Circle]	61-6		Green	105-	Diethyl malonate
Yellow	55066-	Benzenepentanol, gamma-methyl-	[Circle]	53-3	
[Triangle]	48-3		Yellow	106-	Dihydrocitronellol
Yellow	118-	Benzyl salicylate	[Triangle]	21-8	
[Triangle]	58-1		Half Green	18479-	Dihydromyrcenol
Yellow	151-	Benzyldimethyl carbinyl acetate	[Circle]	58-8	
[Triangle]	05-3		Yellow	10250-	Diisobutyl carbinyl acetate
Yellow	14901-	beta-lonone	[Triangle]	45-0	
[Triangle]	07-6		Green	108-	Dimethyl malonate
Yellow	659-	Butanoic acid, 3-methyl-, 3-	[Circle]	59-8	
[Triangle]	70-1	methylbutyl ester	Yellow	68737-	Dimethyl tetrahydrobenzaldehyde
Yellow	28940-	Calone	[Triangle]	61-1	
[Triangle]	11-6		Yellow	1191-	Dimethylallyl acetate
Yellow	79-92-	Camphene	[Triangle]	16-8	
[Triangle]	5		Yellow	138-	Dipentene
Yellow	99-49-	Carvone	[Triangle]	86-3	
[Triangle]	0		Yellow	101-	Diphenyl oxide
Yellow	928-	cis-3-hexenol	[Triangle]	84-8	
[Triangle]	96-1		Yellow	5989-	D-Limonene
			[Triangle]	27-5	

Yellow	15356-	D-Menthol	Yellow	107-	Hydroxycitronellal
[Triangle]	60-2		[Triangle]	75-5	
Yellow	112-	Dodecanal	Yellow	120-	Indole
[Triangle]	54-9		[Triangle]	72-9	
Yellow	105-	Ethyl butyrate	Yellow	8013-	lonone
[Triangle]	54-4		[Triangle]	90-9	
Yellow	67634-	Ethvl	Half Green	123-	Isoamyl acetate
[Triangle]	15-5	dimethylhydrocinnamaldehyde	[Circle]	92-2	···· / ·····
[Yellow	106-	Isoamyl butyrate
Half Green	7452-	Ethyl ester 2-methylbutanoic acid	[Triangle]	27-4	
[Circle]	79-1		Yellow	87-20-	Isoamyl salicylate
Yellow	108-	Ethyl isovalerate	[Triangle]	7	isourny surry acc
[Triangle]	64-5		Half Green	, 110-	Isobutyl acetate
Vellow	10220-	Ethyl linalool		19_0	isobaty acctate
[Trianglo]	10339-		Vollow	13-0 07 10	Isobutyl calicylate
Vallaw	55-0 61021	Ethyl linglyl agotata	Trianglal	A A	isobulyi sancylate
Trianglal	01931-		[Thangle]	4 1005	leagualagitral
	60-4 602		fellow	1335-	isocyclocitral
Yellow	692-	Ethyl undecylenate	[Iriangie]	66-6	
[Iriangle]	86-4		Yellow	125109	Isopropylphenylbutanal
Half Green	121-	Ethyl vanillin	[Triangle]	-85-5	
[Circle]	32-4		Yellow	89-79-	Isopulegol
Half Green	105-	Ethylene brassylate	[Triangle]	2	
[Circle]	95-3		Half Green	18871-	Jasmal
Yellow	470-	Eucalyptol	[Circle]	14-2	
[Triangle]	82-6		Half Green	38285-	Jasmin pyranol
Half Green	63500-	Florol	[Circle]	49-3	
[Circle]	71-0		Yellow	488-	Jasmone
Half Green	706-	gamma-Decalactone	[Triangle]	10-8	
[Circle]	14-9		Yellow	6485-	L-Carvone
Half Green	105-	gamma-Heptalactone	[Triangle]	40-1	
[Circle]	21-5		Yellow	68039-	Ligustral
Half Green	695-	gamma-Hexalactone	[Triangle]	49-6	
[Circle]	06-7	-	Yellow	78-70-	Linalool
Half Green	104-	gamma-Nonalactone	[Triangle]	6	
[Circle]	61-0	5	Yellow	115-	Linalvl acetate
Half Green	104-	gamma-Octalactone	[Triangle]	95-7	· / · · · · · ·
[Circle]	50-7	Service Constructions	Yellow	2216-	I-Menthol
Yellow	99-85-	gamma-Terninene	[Triangle]	51-5	
[Triangle]	4	Samma respinence	Yellow	106-	Melonal
Half Green	104-	Gamma-undecalactone	[Triangle]	72-9	Weional
[Circle]	67-6		Vellow	1490-	Menthol
Green	102-	Chycerol triacetate	[Triangle]	04-6	Wention
[Circle]	76_1	Giver of thatetate	Vollow	04 0	Monthal racomic
	1/1772	Holyatalida	Trianglol	0 <i>5-1</i> 0- 1	
	141//5	Helvetolide	[IIIaligie]	1225	Mathulanana
[Circle]	-/5-1	Hevenel	Tellow	1335-	Methy Ionone
Yellow	00-25-	Hexanal	[Inangle]	40-2	
[Triangle]	1		Yellow	111-	Methyl 2-nonenoate
Halt Green	123-	Hexanoic acid, ethyl ester	[iriangie]	/9-5	
	66-0		Yellow	111-	Methyl 2-nonynoate
Half Green	142-	Hexyl acetate	[Iriangle]	80-8	
[Circle]	92-7		Yellow	93-58-	Methyl benzoate
Yellow	6259-	Hexyl Salicylate	[Triangle]	3	
[Triangle]	76-3				

Yellow	79-89- 0	Methyl delta-ionone	Half Green	8007-	Terpineol acetate
[Triangle]	0			35-0	- · ·
Green	24851-	Methyl dinydrojasmonate	Yellow	586-	Terpinolene
[Circle]	98-7		[Iriangle]	62-9	
Yellow	111-	Methyl undecylenate	Half Green	80-26-	Terpinyl acetate
[Iriangle]	81-9		[Circle]	2	
Half Green	54982-	Muskonate	Yellow	78-69-	Tetrahydrolinalool
[Circle]	83-1		[Triangle]	3	
Half Green	543-	Myrcenol	Yellow	928-	trans-3-Hexenol
[Circle]	39-5		[Triangle]	97-2	
Yellow	93-18-	Naphthalene, 2-ethoxy-	Yellow	17511-	Tricyclodecenyl propionate
[Triangle]	5		[Triangle]	60-3	
Yellow	93-04-	Naphthalene, 2-methoxy-	Yellow	77-93-	Triethyl citrate
[Triangle]	9		[Triangle]	0	
Yellow	124-	Nonanal	Yellow	112-	Undecanal
[Triangle]	19-6		[Triangle]	44-7	
Yellow	124-	Octanal	Green	121-	Vanillin
[Triangle]	13-0		[Circle]	33-5	
Yellow	112-	Octyl acetate	Yellow	122-	Vanillyl acetone
[Triangle]	14-1		[Triangle]	48-5	
Half Green	109-	Oxacycloheptadecan-2-one	Yellow	88-41-	Verdox
[Circle]	29-5		[Triangle]	5	
Yellow	111879	Oxacyclohexadec-12-en-2-one,	Yellow	5413-	Verdyl acetate
[Triangle]	-80-2	(12E)-	[Triangle]	60-5	
Yellow	111879	Oxacyclohexadec-12-en-2-one,	Oxidants an	d Stabilize	rs
[Triangle]	-79-9	(12Z)-	Yellow	6419-	Aminotrimethylene phosphonic
Yellow	99219-	Oxacyclohexadec-13-en-2-one,	[Triangle]	19-8	acid
[Triangle]	32-6	(13E)-	Yellow	22042-	Diethylenetriaminepenta(methylen
Yellow	111879	Oxacyclohexadec-13-en-2-one,	[Triangle]	96-2	ephosphonic acid), sodium salt
[Triangle]	-81-3	(13Z)-			
Half Green	106-	Oxacyclohexadecan-2-one	Yellow	12027-	Disodium tin hexahydrate
[Circle]	02-5		[Triangle]	70-2	
Yellow	69103-	Oxirane, 2,2-dimethyl-3-(3-methyl-	Green	7722-	Hydrogen peroxide
[Triangle]	20-4	2,4-pentadien-1-yl)-	[Circle]	84-1	,
Yellow	67634-	p-Ethyl-alpha,alpha-dimethyl-	Yellow	13598-	Phosphonic acid
[Triangle]	14-4	hydrocinnamaldehyde	[Triangle]	36-2	·
			Yellow	7664-	Phosphoric acid
Yellow	67634-	Propanoic acid, 2-methyl-,	[Triangle]	38-2	
[Triangle]	20-2	3a,4,5,6,7,7a-hexahydro-4,7-	Yellow	10294-	Phosphorous acid
		methano-1H-inden-5-yl ester	[Triangle]	56-1	
			Yellow	12142-	Potassium stannate
Yellow	68039-	Propanoic acid, 2-methyl-,	[Triangle]	33-5	
[Triangle]	39-4	3a,4,5,6,7,7a-hexahydro-4,7-	Yellow	7758-	Sodium acid pyrophosphate
		methano-1H-inden-6-yl ester	[Triangle]	16-9	
			Yellow	7631-	Sodium nitrate
Half Green	65113-	Sandalore	[Triangle]	99-4	
[Circle]	99-7		Green	15630-	Sodium percarbonate
Yellow	86803-	Scentenal	[Circle]	89-4	
[Triangle]	90-9		Green	7775-	Sodium perovydisulfate
Yellow	8008-	Sweet orange oil	[Circle]	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
[Triangle]	57-9		Yellow	7722-	Sodium pyrophosphate
Half Green	8000-	Terpineol	[Triangle]	88-5	Sociality pyrophosphate
			THURSTON		
[Circle]	41-7				

Yellow [Triangle] Yellow	12058- 66-1 7758-	Sodium stannate Sodium tripolyphosphate	Green [Circle]	28205- 96-1	2-Propenoic acid, 2-methyl-, polymer with 2-propenoic acid, sodium salt
[Triangle] Yellow [Triangle]	29-4 10543- 57-4	Tetraacetyl ethylene diamine	Green [Circle]	25950- 40-7	2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2- propenoate, butyl 2-propenoate,
Yellow [Triangle] Polymers	7320- 34-5	Tetrapotassium pyrophosphate			ethenylbenzene and methyl 2- methyl-2-propenoate
Green	25722-	2,5-Furandione, polymer with 1-			
[Circle]	45-6	propene	Green	25035-	2-Propenoic acid, 2-methyl-,
Green [Circle]	37199- 81-8	2,5-Furandione, polymer with 2,4,4-trimethylpentene, sodium	[Circle]	82-9	polymer with butyl 2-propenoate
		salt	Green [Circle]	25036- 16-2	2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate
Green [Circle]	26022- 09-3	2,5-Furandione, polymer with ethenylbenzene, ammonium salt			and ethenylbenzene
			Green	25035-	2-Propenoic acid, 2-methyl-,
Green [Circle]	52720- 34-0	2,5-Furandione, telomer with ethenylbenzene and (1-	[Circle]	69-2	polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate
		methylethyl)benzene, ammonium	C	04024	
Crean	52500	Salt	Green [Circle]	94031- 39-7	2-Propendic acid, 2-methyl-,
	52500- 02-2	2,5-Furancione, telomer with	[encle]	557	(1-methylethenyl)benzene and
[Circle]	52-2	methylethyl)benzene, sodium salt			methyl 2-methyl-2-propenoate
Green	29132-	2-Butenedioic acid (2Z)-, polymer	Green	67802-	2-Pronancic scid 2-mathul
	26-9	2. Decrear size side 2 monthed whether	[Circle]	91-5	polymer with butyl 2-propenoate,
Green	25322-	2-Propenoic acid, 2-methyl-, butyl			propengate and methyl 2-methyl-
[Circle]	99-0	propendate and methyl 2-methyl-			2-propenoate
		2-propenoate			
			Green	25987-	2-Propenoic acid, 2-methyl
Green	25213-	2-Propenoic acid. 2-methyl-, butyl	[Circle]	66-0	polymer with butyl 2-propenoate,
[Circle]	39-2	ester, polymer with			ethenylbenzene and methyl 2-
		ethenylbenzene			methyl-2-propenoate
Green [Circle]	25608- 33-7	2-Propenoic acid, 2-methyl-, butyl ester, polymer with methyl 2-			
		methyl-2-propenoate	Green [Circle]	137899 -00-4	2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate,
Green	65405-	2-Propenoic acid, 2-methyl-,			ethenylbenzene and methyl 2-
[Circle]	40-5	dodecyl ester, polymer with			methyl-2-propenoate, calcium salt
		hexadecyl 2-methyl-2-propenoate,			
		octadecyl 2-methyl-2-propenoate			
		and tetradecyl 2-methyl-2-	Green	63744-	2-Propenoic acid, 2-methyl-,
		propenoate	[Circle]	68-3	polymer with butyl 2-propenoate, ethenylbenzene, ethyl 2-
Green	25767-	2-Propenoic acid, 2-methyl-,			propenoate and methyl 2-methyl-
[Circle]	39-9	methyl ester, polymer with			2-propenoate
		ethenylbenzene and 2-propenoic acid			

Green [Circle]	31392- 42-4	2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, methyl 2-methyl- 2-propenoate and 2-propenenitrile	Green [Circle]	26099- 88-7	Butanedioic acid, 2-methylene-, polymer with 2-propenoic acid, sodium salt
Green [Circle] Green [Circle]	9010- 92-8 25035- 81-8	2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene and methyl 2-methyl-2-propenoate	Green [Circle]	156042 -41-0	Butanoic acid, 3-oxo-, 2-[(2-methyl- 1-oxo-2-propen-1-yl)oxy]ethyl ester, polymer with butyl 2- propenoate, 2-ethylhexyl 2- propenoate, methyl 2-methyl-2- propenoate, 2-methyl-2-propenoic acid and 2-propen-1-yl 2-methyl-2- propenoate
Green [Circle]	65405- 63-2	2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene, ethyl 2-propenoate, methyl 2- methyl-2-propenoate and 1,2-	Green [Circle] Green	68441- 17-8 9010-	Ethene, homopolymer, oxidized Ethylene/acrylic acid copolymer
		propanediol mono(2-methyl-2- propenoate)	[Circle] Green [Circle]	77-9 31694- 55-0	Glycerol poly(oxyethylene) ether
Green [Circle]	25212- 88-8	2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate	Green [Circle]	70142- 34-6	Octadecanoic acid, 12-hydroxy-, polymer with alpha-hydro-omega- hydroxypoly(oxy-1,2-ethanediyl)
Green [Circle]	25086- 15-1	2-Propenoic acid, 2-methyl-, polymer with methyl 2-methyl-2- propenoate	Green	9003-	Polybutene
Green [Circle]	70879- 60-6	2-Propenoic acid, 2-methyl-, polymers with Et acrylate and	[Circle] Green [Circle]	29-6 25322- 68-3	Polyethylene glycol
		C16-18-alkyl ethers methacrylic acid polymer	Green [Circle]	26099- 09-2	Polymaleic acid
Green [Circle]	9003- 01-4	2-Propenoic acid, homopolymer	Green [Circle] Green	25087- 26-7 9003-	Polymethacrylic acid Polypropylene
Green [Circle]	9003- 04-7	2-Propenoic acid, homopolymer, sodium salt	[Circle] Green	07-0 9002-	Polyvinyl alcohol
Green [Circle]	52255- 49-9	2-Propenoic acid, polymer with 2,5-furandione, sodium salt	[Circle] Green [Circle]	89-5 9003- 39-8	Polyvinylpyrrolidone
Green [Circle]	31212- 13-2	2-Propenoic acid, potassium salt (1:1), polymer with 2-propenamide	Green [Circle]	8061- 51-6	Sodium ligninsulfonate
Green	68479-	2-Propenoic acid, telomer with	[Circle] Green	25086- 62-8 54193-	Sodium polymethacrylate
[Circle]	09-4	sodium hydrogen sulfite, sodium salt	[Circle] Green	36-1 144399	Sorbitan oleate decylglucoside
Green [Circle] Groop	66019- 18-9 71822	2-Propenoic acid, telomer with sodium sulfite (1:1)	[Circle]	4-56-6	crosspolymer
[Circle]	81-0	sodium salt (1:1), polymer with formaldehyde and 4 4'-	[Circle]	23213- 24-5	
		sulfonylbis[phenol]	Vollow	2624	1.2 Bonzisothiazol 2/211) and
		serenyios[prenoi]	rellow [Triangle]	2634- 33-5	1,2-Benzisotniazol-3(2H)-One

Green	59-02-	alpha-Tocopherol	Green	110-	Sorbic acid
[Circle]	9		[Circle]	44-1	
Half Green	137-	Ascorbyl palmitate	Green	7695-	Tocopherol acetate
[Circle]	66-6		[Circle]	91-2	
Green	65-85-	Benzoic acid	Yellow	112-	Undecylenic acid
[Circle]	0		[Triangle]	38-9	
Green	582-	Benzoic acid, potassium salt	Green	58-95-	Vitamin E acetate
[Circle]	25-2		[Circle]	7	
Green	532-	Benzoic acid, sodium Salt	Processing A	ids and Ad	ditives
[Circle]	32-1		Green	64-19-	Acetic acid
Green	7492-	Calcium sorbate	[Circle]	7	
[Circle]	55-9		Green	97-30-	alpha-Methylglucoside
Green	1117-	Caprvlvl glycol	[Circle]	3	
[Circle]	86-8		Green	50-81-	Ascorbic acid
Yellow	520-	Dehvdroacetic acid	[Circle]	7	
[Triangle]	45-6		Green	, 1302-	Bentonite
Yellow	7681-	Disulfurous acid, disodium salt		78-9	Dentonite
[Triangle]	57-4		Groop	66402	Calcined kaolin
Green	10191-	DI -alpha-Toconherol	[Circlo]	69 A	
	41-0		Croop	00-4 62 E4	Calcium acotato
Green	50-21-	DI-Lactic acid	Green	02-54- 1	
	50 21		Croon	4	Calcium carbonata
Green	5 64-18-	Formic acid	Green	4/1-	
[Circle]	6		Crean	54-1 10042	Calaium ablanida, an budnaus
	01052	Hydrogonatod nalm glycoridae	Green	10043-	Calcium chloride, annydrous
	16.2	citrato	[Circle]	52-4	Coloisses able side dibudente
Croop	10-3		Green	10035-	Calcium chloride, dinydrate
Green	/9-55-		[Circie]	04-8	
	4		Green	813-	Calcium citrate
Yellow	13446-	Magnesium (II) nitrate,	[Circle]	94-5	
[Irlangle]	18-9	nexanydrate	Green	544-	Calcium formate
Yellow	10377-	Magnesium nitrate	[Circle]	17-2	
[Iriangle]	60-3		Green	1305-	Calcium hydroxide
Yellow	261/2-	Methyl chloro isothiazolinone	[Circle]	62-0	
[Iriangle]	55-4		Green	76123-	Calcium magnesium acetate
Yellow	2682-	Methyl isothiazolinone	[Circle]	46-1	
[Triangle]	20-4		Green	1344-	Calcium silicate
Green	6683-	Pentaerythritol, tetrakis(3,5-di-tert-	[Circle]	95-2	
[Circle]	19-8	butyl-4-hydroxyhydrocinnamate)	Green	120962	Canola oil
			[Circle]	-03-0	
Yellow	122-	Phenoxyethanol	Green	9000-	Carrageenan
[Triangle]	99-6		[Circle]	07-1	
Green	24634-	Potassium (E,E)-sorbate	Green	9004-	Cellulose
[Circle]	61-5		[Circle]	34-6	
Green	590-	Potassium sorbate	Green	9004-	Cellulose, 2-hydroxypropyl methyl
[Circle]	00-1		[Circle]	65-3	ether
Green	68-04-	Sodium citrate, anhydrous	Green	9004-	Cellulose, carboxymethyl ether,
[Circle]	2		[Circle]	32-4	sodium salt
Green	6132-	Sodium citrate, dihydrate	Green	68442-	Cellulose, regenerated
[Circle]	04-3		[Circle]	85-3	
Yellow	7631-	Sodium nitrate	Green	77-92-	Citric acid, anhydrous
[Triangle]	99-4		[Circle]	9	
Green	137-	Sodium propionate	Green	5949-	Citric acid, monohydrate
[Circle]	40-6		[Circle]	29-1	

Lintle GreenGOTACorn gluten proteinCircle Green7791Magnesium chloride, hexahydrate[Circle]96-3Corn oilGreen1309Magnesium hydroxide[Circle]30-7(Circle]42.8(Circle]43-4(Circle]42.8Green8029Corn sugar syrupGreen1309.Magnesium oxide[Circle]43-4(Circle]48-4Green344Decanoic AcidGreen1039.Magnesium sulfate, anhydrous[Circle]53-9Decanoic AcidGreen1034.Magnesium sulfate, heptahydrate[Circle]53-9Decanoic AcidGreen1034.Magnesium sulfate, heptahydrate[Circle]53-9Defluconic acidGreen1034.Malcodextrin[Circle]54-9DeflucoseGreen75-7Methanesulfonic acid[Circle]56-9DeflucoseGreen1050.Malcodextrin[Circle]56-9DeflucoseGreen102.4Methanesulfonic acid[Circle]56-9DeflucoseGreen102.4Malcodextrin[Circle]56-9DeflucoseGreen102.4Methanesulfonic acid[Circle]56-9DeflucoseGreen102.4Malcodextrin[Circle]56-9DeflucoseGreen102.4Malcodextrin[Circle]56-9Icircle]37-2Molases, blackstrap[Circle]56-9Green102.4Malcodextrin[Cir	Green	8001-	Coconut oil	Green	7786-	Magnesium chloride, anhydrous
Green600/1-Corn guiten proteinGreen7/91-Magnesium chonde, nexanyrateGreen8001-Corn guiten proteinGreen1309-Magnesium hydroxideGreen8029-Corn sugar syrupGreen1309-Magnesium sulfate, anhydrousGreen834-Decanoic AcidGreen1304-Magnesium sulfate, anhydrous[Circle]83-Decanoic AcidGreen1034-Magnesium sulfate, heptahydrate[Circle]53-9Corn concorn[Circle]99-8Magnesium sulfate, heptahydrate[Circle]53-9Corn concorn[Circle]99-8Magnesium sulfate, heptahydrate[Circle]53-9Concorn[Circle]15-7Mathcostte, heptahydrate[Circle]53-9Concorn[Circle]15-7Mathcostte, heptahydrate[Circle]75-0DefucoseGreen1050-Mathcostte, heptahydrate[Circle]76-9Circle]75-7Mathansulfonic acid[Circle]76-9[Circle]75-7Mathansulfonic acid[Circle]76-9Circle]75-7Mathansulfonic acid[Circle]76-9[Circle]75-7Mathansulfonic acid[Circle]76-9[Circle]75-7Mathansulfonic acid[Circle]76-9[Circle]75-7Mathansulfonic acid[Circle]76-9[Circle]75-7Mathansulfonic acid[Circle]76-9[Circle]76-7[Circle][Circle]76-7 <td>[Circle]</td> <td>31-8</td> <td></td> <td>[Circle]</td> <td>30-3</td> <td></td>	[Circle]	31-8		[Circle]	30-3	
Lince Green96-3Crn oilCin (Lincle)1369Magnesium hydroxide[Cincle]37Crn sugar syrupGreen1309Magnesium oxide[Cincle]43-4Cincle]48-4Green1309Magnesium sulfate, anhydrous[Cincle]43-4Cincle]88-9Green787Magnesium sulfate, anhydrous[Cincle]53-9Cincle]99-8Cincle]99-8Green1004-Magnesium sulfate, heptahydrate[Cincle]53-9D-Gluconic acidGreen1034-Magnesium sulfate, heptahydrate[Cincle]54-D-GlucoseGreen905-Malic acid[Cincle]7SchooseGreen905-Malic acid[Cincle]7Disolium disilicateGreen905-Mathensulfonic acid[Cincle]96-9Disolium disilicateGreen802-Molases, blackstrap[Cincle]6-[Cincle]3-5Green100-S-Green10-Lumaric acidGreen802-Molases, blackstrap[Cincle]6-[Cincle]3-5Intra acid (aqueous)Cincle][Cincle]7-3GluconolactoneGreen802-Nationacid[Cincle]7-3[Cincle]7-3Intra acid (aqueous)Cincle][Cincle]7-3[Cincle]7-3Intra acid (aqueous)[Cincle]7-3[Cincle]7-3Intra acid (aqueous)[Cincle]7-3[Cincle]7-3 <td< td=""><td>Green</td><td>66071-</td><td>Corn gluten protein</td><td>Green</td><td>//91-</td><td>Magnesium chloride, nexanydrate</td></td<>	Green	66071-	Corn gluten protein	Green	//91-	Magnesium chloride, nexanydrate
GreenB011-Corn oilGreen120Magnesium nytroxideGreen829-Corn sugar syrupGreen130-Magnesium oxide[Circle]42-8[Circle]48-4[Circle]48-4Green34-Decanoic AcidGreen7487-Magnesium sulfate, anhydrous[Circle]48-5[Circle]88-9[Circle]89-9[Circle]53-9Circle1003-4Magnesium sulfate, heptahydrate[Circle]53-9D-Gluconic acidGreen905-0Malto acid[Circle]54-Circle]15-7Malto acid[Circle]Green509-9D-GlucoseGreen75-75Methanesulfonic acid[Circle]95-9Circle]36-6Malto acid[Circle]Green360-Dipotassium hydrogen cirtateGreen75-75Methanesulfonic acid[Circle]95-9Circle]35-5Malto acidGreen35-5[Circle]25-1D-Lactic acidGreen37-24Nepheline synite[Circle]25-1D-Lactic acidGreen37-24Nepheline synite[Circle]75-1Malto acidGreen37-24Nepheline synite[Circle]75-1Circle]95-5Malto acidGreen[Circle]75-1Malto acidGreen37-24Nepheline synite[Circle]75-1Circle]95-5Malto acidGreen[Circle]75-1Circle]95-5 <td>[Circle]</td> <td>96-3</td> <td></td> <td>[Circle]</td> <td>18-6</td> <td></td>	[Circle]	96-3		[Circle]	18-6	
Lircle Green30-7Lircle Basel (Lircle)42-8Circled Green334Ocanoic AcidGreen1309- BaselMagnesium oxidaeGreen344Decanoic AcidGreen748-7Magnesium sulfate, anhydrousCircle Green304-Decanoic AcidGreen1034- BaselMagnesium sulfate, anhydrousCircle Green504-DectrinGreen1034- BaselMagnesium sulfate, anhydrousCircle Green526-D-Gluconic acidGreen9050- BaselMalic acidCircle Green526-D-GlucoseGreen9050- BaselMalic acidCircle Green360-Dipotassium hydrogen citrateGreen9050- BaselMathaesulfonic acidCircle Green370-Disodium disilicateGreen9050- BaselMethyl celluloseCircle Green512-Dic-Lactic acidGreen8052- Basel, blackstrapCircle Green512-Formic acidGreen872-4 Baseline seniteCircle Green17-8Formic acidGreen800-Circle Green17-8Circle37-2Green699-Glass fibersGreen800-Green90-80-GluconolactoneGreen810-Green90-80-GluconolactoneGreen138-9Green90-80-GluconolactoneGreen138-9Green90-80-GluconolactoneGreen138-9Green9	Green	8001-	Corn oil	Green	1309-	Magnesium hydroxide
Green8029-Corn sugar syrupGreen1309-Magnesium oxide(Circle)84-4(Circle)88-4Green334-Decanoic AcidGreen7847-Magnesium sulfate, anhydrous(Circle)88-9(Circle)98-4(Circle)98-4(Circle)53-9Circle93-4(Circle)98-4(Circle)53-9Circle05-6Malto extrin(Circle)95-4Circle95-6Malto extrin(Circle)95-4Circle95-7Mathematicacid(Circle)95-4Circle96-7Mathematicacid(Circle)95-9Circle96-9Nethanesulfonic acid(Circle)25-7Circle96-9Nethanesulfonic acid(Circle)25-7Circle96-9Nethanesulfonic acid(Circle)25-7Circle96-9Nethanesulfonic acid(Circle)25-7Nethanesulfonic acidGreen904-7(Circle)25-7Nethanesulfonic acidGreen902-7(Circle)25-7Malto extrinNepleline synthe(Circle)25-7Nepleline syntheNepleline synthe(Circle)25-7Nepleline syntheNepleline synthe(Circle)25-7Nepleline syntheNepleline synthe(Circle)25-7Nepleline syntheNepleline synthe(Circle)25-7Nepleline syntheNepleline synthe(Circle)25-7Nepleline syntheNepleline s	[Circle]	30-7	-	[Circle]	42-8	
[Circle]43-4[Circle]48-4[Circle]43-4Decanoic AcidGreen748-7Magnesium sulfate, anhydrous[Circle]48-5[Circle]98-9Magnesium sulfate, anhydrous[Circle]53-9Circle]99-4[Circle]99-4Green50-9D-Gluconic acidGreen670-0Malic acid[Circle]95-1Circle]95-1Malic acidGreen50-9D-GlucoseGreen950-0Maltodextrin[Circle]96-9[Circle]36-6[Circle]96-9Green3609Dipotassium hydrogen citrateGreen90-4Methyl cellulose[Circle]96-9Disodium disilicateGreen90-4Methyl cellulose[Circle]28-5[Circle]67-5Maltodextrap[Circle]5D-Latcic acidGreen372-4Nepheline syenite[Circle]5Formic acidGreen372-4Nepheline syenite[Circle]7-3[Circle]7-3Nitric acid (aqueous)[Circle][Circle]17-8[Circle]27-2[Circle]9-5Green6997-GluconolactoneGreen3802Palm oil[Circle]17-3[Circle]27-3[Circle]27-3Green90-4GluconolactoneGreen373-2Petite[Circle]17-3[Circle]27-3Palm oil[Circle][Circle]12-3[Circle]12-4 <td< td=""><td>Green</td><td>8029-</td><td>Corn sugar syrup</td><td>Green</td><td>1309-</td><td>Magnesium oxide</td></td<>	Green	8029-	Corn sugar syrup	Green	1309-	Magnesium oxide
Green334Decanoic AcidGreen7487Magnesium sulfate, anhydrous[Circle]94-5[Circle]88-9Green9004DextrinGreen10034Magnesium sulfate, heptahydrate[Circle]53-9[Circle]95-4[Circle]95-7Green50-9-9D-GlucoseGreen6915-Malic acid[Circle]95-4[Circle]36-6[Circle]36-6Green3609-Djotassium hydrogen citrateGreen75-75-Methanesulfonic acid[Circle]96-9[Circle]67-5[Circle]67-5Green3809-Disodium disilicateGreen904-Methyl cellulose[Circle]28-5[Circle]67-5Molasses, blackstrap[Circle]28-5[Circle]67-5Molasses, blackstrap[Circle]28-5[Circle]66-7Nitric acid (aqueous)[Circle]10-1-actic acidGreen802-7Nitric acid (aqueous)[Circle]17-8[Circle]96-7Nitric acid <td>[Circle]</td> <td>43-4</td> <td></td> <td>[Circle]</td> <td>48-4</td> <td></td>	[Circle]	43-4		[Circle]	48-4	
[Circle]84-5[Circle]88-9[Green900-4DextrinGreen1003-4Magnesium sulfate, heptahydrate[Gricle]53-9ICircle]95-4Malic acid[Green50-9-9D-Gluconic acidGreen67-6Malic acid[Green50-9-9D-GlucoseGreen950-Maltodextrin[Grein]360-9Dipotassium hydrogen citrateGreen75-7Methanesulfonic acid[Gricle]96-9[Circle]36-6[Circle]36-6[Grein]360-9Dipotassium hydrogen citrateGreen904-Methyl cellulose[Gricle]36-9Dipotassium hydrogen citrateGreen904-Methyl cellulose[Gricle]36-9Dipotassium hydrogen citrateGreen904-Methyl cellulose[Gricle]36-9Dipotassium hydrogen citrateGreen805-Methyl cellulose[Gricle]37-9Di-Lactic acidGreen805-Molasses, blackstrap[Gricle]5-9[Gricle]75-Methyl celluloseMethyl cellulose[Gricle]17-8[Gricle]76-9Mitria caid (aqueous)Mitria caid (aqueous)[Gricle]17-8[Gricle]76-9Methyl celluloseMethyl cellulose[Gricle]17-8[Gricle]76-9Methyl celluloseMethyl cellulose[Gricle]17-9GilceGilceGreen8001-Mitria caid (aqueous)[Gricle]17-9GilceGilceMethyl c	Green	334-	Decanoic Acid	Green	7487-	Magnesium sulfate, anhydrous
Green9004-DextrinGreen10034-Magnesium sulfate, heptahydrate[Circle]53	[Circle]	48-5		[Circle]	88-9	
[Circle]53-9Coluconic acid[Circle]99-8(Circle]95-6ICircle]15-7Green50-99D-GlucoseGreen9050Mattodextrin[Circle]7Circle]36-6ICircle]7Green3609-Dipotassium hydrogen cirtateGreen90-4Methanesulfonic acid[Circle]96-9Dipotassium hydrogen cirtateGreen90-4Methanesulfonic acid[Circle]96-9Disodium disilicateGreen90-4Methanesulfonic acid[Circle]87-7D-Lactic acidGreen8052-Molasses, blackstrap[Circle]5Social[Circle]87-5SocialGreen10-1D-Lactic acidGreen37244-Nepheline syenite[Circle]6Imaric acid[Circle]97-7Nitric acid (aqueous)[Circle]17-8Imaric acidGreen800-7Nitric acid (aqueous)[Circle]17-8Imaric acid[Circle]7-3SocialGreen50-90-Glass fibersGreen800-7Nitric acid (aqueous)[Circle]9-80-8Gluconolactone[Circle]7-3SocialGreen50-40-6GlycineGreen13282PEG-120 methyl glucose trioleate[Circle]7-3ImariaGreen13282PEG-120 methyl glucose trioleate[Circle]7-3ImariaGreen127-9Potassium actate[Circle]6-4Green127-9<	Green	9004-	Dextrin	Green	10034-	Magnesium sulfate, heptahydrate
Green526- Coluconic acidGreen6915- CircleMail a caid[Circle]95-4[Circle]15-7IC[Circle]7[Circle]36-6IC[Circle]96-9[Circle]36-6ICGreen3809-Dipotassium hydrogen cirtateGreen900-4Methyl cellulose[Circle]96-9[Circle]67-5Methyl cellulose[Circle]28-5Disodium disilicateGreen8052-Molasses, blackstrap[Circle]5IL-Lactic acidGreen8052-Molasses, blackstrap[Circle]5Formic acidGreen802-Nepheline syenite[Circle]5IL-actic acid[Circle]37-5Formic acidGreen10-Fumaric acid[Circle]7-75-Nitric acid (aqueous)[Circle]17-3Fumaric acid[Circle]7-3ICGreen9030-GluconolactoneGreen8001-Olive oil[Circle]17-3IC[Circle]7-3ICGreen9040-GluconolactoneGreen13382PEG-120 methyl glucose trioleate[Circle]6[Circle]7-3ICICGreen900-Guar gumGreen137-4Netasium acetate[Circle]6[Circle]7-3ICIC[Circle]7-4Hadrochica acid (aqueous)Green138-2Petasium acetate[Circle]7-4Hydroxyethyl cellulos	[Circle]	53-9		[Circle]	99-8	
[Circle]95-4[Circle]15-7Green50-99-D-GlucoseGreen36-9[Circle]7[Circle]36-4Green3609-Dipotassium hydrogen citrateGreen75-75Methanesulfonic acid[Circle]96-9[Circle]75-7Methanesulfonic acid[Circle]18870-Disodium disilicateGreen904+Methyl cellulose[Circle]28-5[Circle]67-5Methyl cellulose[Circle]5D-L-Actic acidGreen8052-Molasses, blackstrap[Circle]5D-L-Actic acidGreen87-7Nitric acid (aqueous)[Circle]6[Circle]96-5[Circle]17-8Green10-9Fumaric acidYellow7697-Nitric acid (aqueous)[Circle]17-8[Circle]8001-Olive oil[Circle]17-8[Circle]8001-Olive oil[Circle]17-8[Circle]75-3FerenGreen90-9GluconolactoneGreen8002-Palm oil[Circle]17-3[Circle]96-60[Circle]75-3Green90-0Guar gumGreen133-92PEG-120 methyl glucose trioleate[Circle]30-0Guar gumGreen131-92Potassium acetate[Circle]30-0Guar gumGreen127-9Potassium acetate[Circle]30-0Guar gumGreen128-9Potassium acetate[Circle	Green	526-	D-Gluconic acid	Green	6915-	Malic acid
Green50-99.D-GlucoseGreen9050-Maltodextrin[Circle]7[Circle]36-6[Circle]36-6[Circle]96-9[Circle]75-75Methanesulfonic acid[Circle]96-9[Circle]67-5[Circle]75-75Green13870-Disolium disilicateGreen904-Methanesulfonic acid[Circle]8-5[Circle]67-5[Circle]75-75Green50-21-DL-Lactic acidGreen8052-Molasses, blackstrap[Circle]5-5Formic acidGreen3724-Nepheline syenite[Circle]6Fumaric acid[Circle]96-5Nitric acid (aqueous)[Circle]7-8Fumaric acidYellow7697-Nitric acid (aqueous)[Circle]7-8Green800-Police oil100-[Circle]7-8GluconolactoneGreen800-Police oil[Circle]17-3Gluconolactone[Circle]75-3Fereine[Circle]17-3Gluconolactone[Circle]76-3Fereine[Circle]30-0Gluconolactone[Circle]76-3Fereine[Circle]30-0GuargumGreen937-3Potassium aceate[Circle]30-0GuargumGreen937-3Potassium aceate[Circle]30-0GuargumGreen937-3Potassium aceate[Circle]30-0GuargumGreen937-3Potassium aceate </td <td>[Circle]</td> <td>95-4</td> <td></td> <td>[Circle]</td> <td>15-7</td> <td></td>	[Circle]	95-4		[Circle]	15-7	
[Circle]7[Circle]36-6Green3609-Dipotassium hydrogen citrateGreen75-75-Methanesulfonic acidGreen13870-Disodium disilicateGreen9004Methyl cellulose[Circle]28-5[Circle]67-5Molasses, blackstrap[Circle]28-5DL-Lactic acidGreen8052-Molasses, blackstrap[Circle]5DL-Lactic acidGreen8052-Molasses, blackstrap[Circle]5Formic acidGreen8052-Molasses, blackstrap[Circle]6Formic acidGreen8052-Molasses, blackstrap[Circle]17-8Formic acidGreen802-Nepheline syenite[Circle]17-8Formic acidGreen801-Oliveoil[Circle]17-8Green802-Palmoil[Circle]17-3Green802-Palmoil[Circle]7-3Green13892PEG-120 methyl glucose trioleate[Circle]6[Circle]7-3Palmoil[Circle]6[Circle]7-3Palmoil[Circle]10-[Circle]9-6-0[Circle][Circle]10-[Circle]9-6-0[Circle][Circle]6[Circle]7-3Palmoil[Circle]6[Circle]7-3Palmoil[Circle]6[Circle]7-3Palmoil[Circle]10-0[Circle]7-3Palmoil[Circle]	Green	50-99-	D-Glucose	Green	9050-	Maltodextrin
Green3609-Dipotassium hydrogen citrateGreen75-75-Methanesulfonic acid[Circle]96-[Circle]2[Circle]13870-Disodium disilicateGreen9004-Methanesulfonic acid[Circle]28-5[Circle]67-5Molasses, blackstrap[Circle]5Tomic acidGreen872-4Nepheline syenite[Circle]6Formic acidGreen372-4Nepheline syenite[Circle]6Fumaric acidCircle96-5Nitric acid (aqueous)[Circle]10-7Fumaric acid[Circle]97-7Nitric acid (aqueous)[Circle]17-8Fumaric acidCircle97-7Nitric acid (aqueous)[Circle]17-8Gass fibersGreen8001-Olive oil[Circle]17-3GluconolactoneGreen8002-Palm oil[Circle]90-80-GluconolactoneGreen13892PG-120 methyl glucose trioleate[Circle]90-7GuargumGreen17-8Palmoil[Circle]12-173-HectoriteGreen17-8Palmoin[Circle]12-173-HectoriteGreen12-7Patasium acetate[Circle]10-174-Icircle]13-7Patasium acetate[Circle]10-174-Hydroxytetyl celluloseGreen12-7Patasium acetate[Circle]10-174-Icircle]13-7Patasium acetate[Circle]10-174-Hydroxytetyl cellulose<	[Circle]	7		[Circle]	36-6	
[Circle]96-9[Circle]2Green13870-Disodium disilicateGreen9004-Methyl cellulose[Circle]8-5[Circle]67-5Green50-21-Dt-tactic acidGreen8052-Molasses, blackstrap[Circle]5Formic acidGreen37244Nepheline syenite[Circle]6ICircle]96-5Mitric acid (aqueous)[Circle]17-8Formic acidYellow7697-Nitric acid (aqueous)[Circle]17-8Green8001-Olive oilOlive oil[Circle]17-3Green8002-Palm oilMitric acid[Circle]17-3Green8002-Palm oilMitric acid[Circle]17-3Green8002-Palm oilMitric acid[Circle]17-3Green8002-Palm oilMitric acid[Circle]17-3Green8002-Palm oilMitric acid[Circle]17-3Green8002-Palm oilMitric acid[Circle]17-3Green8002-Palm oilMitric acid[Circle]17-3Green12-3Palm oilMitric acid[Circle]10-4Green1324Palmatic acidPalmatic acid[Circle]10-5Green12-3Palmatic acidGreen12-3[Circle]12-3Hectorite acid (aqueous)Green12-4Palmatic acid[Circle]12-4Hydroxypetyl cellulose <td>Green</td> <td>3609-</td> <td>Dipotassium hydrogen citrate</td> <td>Green</td> <td>75-75-</td> <td>Methanesulfonic acid</td>	Green	3609-	Dipotassium hydrogen citrate	Green	75-75-	Methanesulfonic acid
Green13870Disodium disilicateGreen904.Methyl cellulose[Circle]28-5[Circle]67-5[Circle]67-5GreenS0-21D.L-actic acidGreen8052.Molasses, blackstrap[Circle]5[Circle]35-5[Circle]35-5Green64-18.Formic acidGreen8012.Meheline syenite[Circle]10.Fumaric acid[Circle]96-5Nitric acid (aqueous)[Circle]17.8[Circle]7697.Nitric acid (aqueous)[Circle]17.8[Circle]67een8001.Olive oil[Circle]17.3Green8002.Palm oilOlive oil[Circle]17.3[Circle]75.3Ferance8002.Palm oil[Circle]2Circle]96-0Ferance802.Perilte[Circle]30-0[Circle]75.3Ferance802.Ferance[Circle]30-0[Circle]97.3PerilteFerance[Circle]30-0[Circle]97.3PerilteFerance[Circle]30-0[Circle]97.3PerilteFerance[Circle]30-0[Circle]97.3PerilteFerance[Circle]30-0[Circle]97.3PerilteFerance[Circle]30-0[Circle]97.3PerilteFerance[Circle]30-0[Circle]97.3PerilteFerance[Circle]30-	[Circle]	96-9		[Circle]	2	
[Circle]28-5[Circle]67-27Green50-21-DL-lactic acidGreen8052-Molasses, blackstrap[Circle]5[Circle]35-5Green64-18-Formic acidGreen37244-Nepheline syenite[Circle]6	Green	13870-	Disodium disilicate	Green	9004-	Methyl cellulose
Green50-21.DL-lactic acidGreen80-22.Molasses, blackstrap[Circle]5Formic acid[Circle]35-5Helpeline syenite[Circle]64-18.Formic acidGreen37244.Nepheline syenite[Circle]17.8Formic acidYellow7697.Nitric acid (aqueous)[Circle]17.8Formic acidGreen800.1Olive oil[Circle]17.3Green800.2Olive oilCircle][Circle]17.3Green802.2Palm oil[Circle]2.4Green1382.9PG-120 methyl glucose trioleate[Circle]2.4Green[Circle]9-66-[Circle]3.0Green1383.9Pel-120 methyl glucose trioleate[Circle]3.0Green1367.9Pel-120 methyl glucose trioleate[Circle]3.0Green1373.9Pel-120 methyl glucose trioleate[Circle]3.0Green1373.9Pel-120 methyl glucose trioleate[Circle]3.0Green1373.9Pel-120 methyl glucose trioleate[Circle]3.0Half Green1373.9Pel-120 methyl glucose trioleate[Circle]3.0Half Green1373.9Pel-120 methyl glucose trioleate[Circle]3.0Hydroxiptyl celluloseGreen127.9Potassium actate[Circle]12.173Hydroxiptyl celluloseGreen128.9Potassium chronate, anhydrous[Circle]13.14Hydroxypropyl cellulose <t< td=""><td>[Circle]</td><td>28-5</td><td></td><td>[Circle]</td><td>67-5</td><td></td></t<>	[Circle]	28-5		[Circle]	67-5	
[Circle]5[Circle]3-5-Green64-18-Fornic acidGreen3724Nepheline syenite[Circle]6[Circle]96-5[Circle]96-5Green110-Fumaric acidYellow7697Nitric acid (aqueous)[Circle]17-8[Triangle]37-2[Circle]17-2Green65997Glass fibersGreen8002Olive oil[Circle]17-3[Circle]25-0[Circle]25-0Green90-80-GluconolactoneGreen8002Palm oil[Circle]2[Circle]56-40-Glycine[Circle]9-66-0[Circle]6[Circle]9-66-0[Circle]9-66-0Green900-Guar gumGreen127-3Perlite[Circle]30-0[Circle]9-66-0[Circle]127-3Half Green1217-3HectoriteGreen937-3Perlite[Circle]30-1[Circle]6-1[Circle]127-3Yellow7647-Hydrochloric acid (aqueous)Green128-3Potassium acetate[Circle]127-3Hydrochloric acid (aqueous)Green128-3Potassium acetate[Circle]127-4Hydroxythyl celluloseGreen128-3Potassium cirate, anhydrous[Circle]904-Hydroxythyl celluloseGreen148-4Potassium cirate, anhydrous[Circle]62-3[Circle]63-4Solium saitGreen	Green	50-21-	DL-Lactic acid	Green	8052-	Molasses, blackstrap
Green64-18-Formic acidGreen37.244Nepheline syenite[Circle)6-[Circle)96-5-Green110-Fumaric acidYellow7697-Nitric acid (aqueous)[Circle]17-8-[Triangle]37-2Green65997-Glass fibersGreen8001-Olive oil[Circle]17-3-[Circle]8001-Olive oil[Circle]17-3-[Circle]802Green90-80GluconolactoneGreen8002-Palm oil[Circle]6-[Circle]75-3-Green56-40-GlycineGreen133892PEG-120 methyl glucose trioleate[Circle]6-[Circle]9-36-3-Green900-Gara gumGreen93763Perlite[Circle]30-0-[Circle]9-37-3Perlite[Circle]127-3HectoriteGreen127-3Potassium acetate[Circle]127-4Hydroxythyl celluloseGreen128-4Potassium carbonate, anhydrous[Circle]76-7-[Circle]14-5[Circle]904-4Hydroxythyl celluloseGreen58-4Potassium citrate, anhydrous[Circle]904-4Hydroxythyl celluloseGreen866-5[Circle]914-5-[Circle]84-5[Circle]924-5Hydroxythyl ce	[Circle]	5		[Circle]	35-5	
[Circle]6[Circle]96-5Green10.0Fumaric acidYellow7697.Nitric acid (aqueous)[Circle]17-8[Triangle]37-2Olive oilGreen65997.Glass fibersGreen8002.Olive oil[Circle]17-3[Circle]25-0	Green	64-18-	Formic acid	Green	37244-	Nepheline syenite
Green110-Fumaric acidYellow7697-Nitric acid (aqueous)[Circle]17-3[Triangle]37-2Green65997Glass fibersGreen800-0Olive oil[Circle]17-3[Circle]25-0Palm oilGreen90-80-GluconolactoneGreen800-2Palm oil[Circle]2[Circle]75-3Formal diagonal diagona	[Circle]	6		[Circle]	96-5	
[Circle]17-8[Triangle]37-2Green6597Glass fibersGreen8001Olive oil[Circle]17-3[Circle]25-0-Green90-80GluconolactoneGreen8002-Palm oil[Circle]2[Circle]75-3-Green56-40-GlycineHalf Green133892PEG-120 methyl glucose trioleate[Circle]6[Circle]966-0Green900-Gaar gumGreen137-3Perlite[Circle]70-3[Circle]70-3Half Green121.73HectoriteGreen127-Potassium acetate[Circle]47-6Hydrochloric acid (aqueous)Green29-Potassium carbonate[Triangle]01-0[Circle]08-7Yellow7647-Hydroxyptryl celluloseGreen29-Potassium carbonate, anhydrous[Circle]04-Hydroxypropyl celluloseGreen74-7Potassium carbonate, anhydrous[Circle]64-2[Circle]08-7Green1304Hydroxypropyl celluloseGreen130-7-[Circle]64-2[Circle]64-7Green1312-Notasium citrate, anhydrous[Circle]-54-5sodium saltGircle]84-7[Circle]-54-5sodium saltGircle]84-7 <td>Green</td> <td>110-</td> <td>Fumaric acid</td> <td>Yellow</td> <td>7697-</td> <td>Nitric acid (aqueous)</td>	Green	110-	Fumaric acid	Yellow	7697-	Nitric acid (aqueous)
Green65997Glass fibersGreen8001-Olive oil[Circle]17-3[Circle]25-0Green93.00GluconolactoneGreen8002-Plam oil[Circle]2[Circle]75-3Green56-40-GlycineHalf Green133892PEG-120 methyl glucose trioleate[Circle]6[Circle]966-0Green900-Guar gumGreen93763-Perlite[Circle]30-0[Circle]70-3Half Green12173-HectoriteGreen127-Potassium acetate[Circle]47-6Yotopolocic acid (aqueous)Green298-Potassium bicarbonate[Triangle]01-0Green584-Potassium carbonate, anhydrous[Circle]62-0Hydroxypropyl celluloseGreen584-Potassium clarbonate, anhydrous[Circle]62-0[Circle]64-2[Circle]40-7Green1339Inulin, carboxymethyl ether,Green866-Potassium clarbonate, anhydrous[Circle]64-2[Circle]84-2Potassium clarbonate, anhydrous[Circle]54-3sodium saltGreen1310-Potassium clarbonate, anhydrous[Circle]58-7[Circle]85-7[Circle]86-7[Circle]58-7[Circle]86-7Potassium clarbonate, anhydrous[Circle]58-7[Circle]86-7Potassium clarbonate, anhydrous[Circ	[Circle]	17-8		[Triangle]	37-2	
[Circle]17-3[Circle]25-0Green90-80GluconolactoneGreen8002Palm oil[Circle]2[Circle]75-3FedGreen54-0GlycineHalf Green33892PEG-120 methyl glucose trioleate[Circle]6[Circle]96-0Feren936-3Perlite[Circle]000Guar gumGreen976-3Perlite[Circle]30-0[Circle]6reen976-3Potassium acetate[Circle]30-0[Circle]Green127-9Potassium acetate[Circle]47-6Hydrochoric acid (aqueous)Green298-9Potassium carbonate, anhydrous[Circle]10-0[Circle]16-012-0Potassium carbonate, anhydrous[Circle]9004Hydroxyethyl celluloseGreen584Potassium carbonate, anhydrous[Circle]9004Hydroxypropyl celluloseGreen744-7Potassium carbonate, anhydrous[Circle]62-0[Circle]64-2Potassium carbonate, anhydrous[Circle]64-2[Circle]64-7Potassium carbonate, anhydrous[Circle]1332kalinGreen58-7Potassium carbonate, anhydrous[Circle]134-7Hydroxypropyl celluloseGreen130-7Potassium carbonate, anhydrous[Circle]134-7KalinGreen58-7Potassium carbonate, anhydrous[Circle]134-7KalinGreen131-7Immedia<	Green	65997-	Glass fibers	Green	8001-	Olive oil
Green90-80GluconolactoneGreen8002.Palm oil[Circle]2[Circle]75-3[Circle]75-3Green56-40.GlycineHalf Green13382PEG-120 methyl glucose trioleate[Circle]6[Circle]9-66-09-66-0[Circle]9-66-0Green30-0Garag gmanGreen93763Perlite[Circle]30-0Fortage grammaGreen93763Polasium acetate[Circle]30-0Fortage grammaGreen127-9Potasium acetate[Circle]47-6Hydrochloric acid (aqueous)Green298-Potasium clarbonate[Triangle]01-0Fortage grammaGreen584Potasium clarbonate, anhydrous[Circle]62-0Fortage grammaGreen584Potasium clarbonate, anhydrous[Circle]62-0Fortage grammaGreen7447Potasium clarbonate, anhydrous[Circle]64-2Green866-Potasium clarbonateGreen[Circle]43439Inulin, carboxymethyl ether,Green866-Potasium clarbonate[Circle]53-7Green1310-Potasium clarbonateGreen[Circle]53-7Green1310-Potasium clarbonate[Circle]53-7Green1310-Potasium clarbonate[Circle]53-7Green1310-Potasium clarbonate[Circle]53-7Green1310-Potasium clarbonate[Circle]<	[Circle]	17-3		[Circle]	25-0	
[Circle]2[Circle]75-3Green56-40GlycineHalf Green133892PEG-120 methyl glucose trioleate[Circle]6[Circle]9-66-0Green900-0Guar gumGreen97-3Perlite[Circle]30-0[Circle]70-3PerliteHalf Green1217-3HetoriteGreen127-7Potassium acetate[Circle]47-6[Circle]67-7Potassium bicarbonate[Circle]08-2Yellow7647-Hydrochloric acid (aqueous)Green298-Potassium bicarbonate[Triangle]01-0[Circle]14-614-614-6Green9004Hydroxythyl celluloseGreen584-Potassium carbonate, anhydrous[Circle]62-0[Circle]08-714-614-7Green9004Hydroxythyl celluloseGreen7447Potassium chloride[Circle]64-2[Circle]86-Potassium chloride[Circle]64-2[Circle]86-Potassium citrate, anhydrous[Circle]53-7[Circle]86-7Potassium citrate, monohydrate[Circle]1312-KaolinGreen1310-Potassium latete[Circle]58-7[Circle]87-3[Circle]87-3[Circle]58-7[Circle]58-3[Circle]1310-[Circle]58-3[Circle]96-6Potassium latete[Circle]58-3[Circle]58-3 <td< td=""><td>Green</td><td>90-80-</td><td>Gluconolactone</td><td>Green</td><td>8002-</td><td>Palm oil</td></td<>	Green	90-80-	Gluconolactone	Green	8002-	Palm oil
Green56-40-GlycineHalf Green133892PEG-120 methyl glucose trioleate[Circle]6[Circle]9-66-0[Circle]9-66-0Green9000Guar gumGreen93763-Perlite[Circle]30-0[Circle]70-3[Circle]70-3Half Green1217-HetoriteGreen127-Potassium acetate[Circle]47-6[Circle]68-2Potassium bicarbonateYellow7647Hydrochloric acid (aqueous)Green298-Potassium carbonate, anhydrous[Triangl]01-0[Circle]14-6[Circle]14-6Green9004Hydroxyethyl celluloseGreen584-Potassium carbonate, anhydrous[Circle]62-0[Circle]08-7Potassium carbonate, anhydrous[Circle]64-2[Circle]08-7Potassium circate, anhydrous[Circle]64-2[Circle]40-7Potassium circate, anhydrous[Circle]64-2[Circle]86-6Potassium circate, anhydrous[Circle]64-2[Circle]86-7Potassium circate, anhydrous[Circle]58-7[Circle]61-0Potassium circate, anhydrous[Circle]58-7[Circle]58-7Potassium circate, anhydrous[Circle]58-7[Circle]58-7Potassium circate, anhydrous[Circle]58-7[Circle]58-7Potassium circate, anhydrous[Circle]58-7[Circle]58-7Potas	[Circle]	2		[Circle]	75-3	
[Circle]6Circle]9-66-0Green900-Guar gumGreen93763-Perlite[Circle]30-0[Circle]70-3Potassium acetate[Circle]127-7Potassium acetate[Circle]08-2[Circle]47-6[Circle]08-2Potassium bicarbonate[Triangle]01-0[Circle]08-2Potassium bicarbonate[Triangle]01-0[Circle]14-6Potassium carbonate, anhydrous[Circle]62-0[Circle]08-7Potassium carbonate, anhydrous[Circle]62-0[Circle]04-7Potassium carbonate, anhydrous[Circle]64-2[Circle]04-7Potassium circate, anhydrous[Circle]64-2[Circle]40-7Potassium circate, anhydrous[Circle]430439Inulin, carboxymethyl ether,Green866-Potassium circate, anhydrous[Circle]54-6sodium salt[Circle]84-2Potassium circate, anhydrous[Circle]58-7[Circle]610-Potassium circate, monohydrate[Circle]58-7[Circle]610-Potassium circate, monohydrate[Circle]58-7[Circle]58-7[Circle][Circle]58-7[Circle]58-7[Circle][Circle]58-7[Circle]58-7[Circle][Circle]58-7[Circle]58-7[Circle][Circle]58-7[Circle]58-7[Circle][Circle]58-7<	Green	56-40-	Glycine	Half Green	133892	PEG-120 methyl glucose trioleate
Green9000-Guar gumGreen93763-Perlite[Circle]30-0[Circle]70-3[Circle]70-3Half Green12173-HectoriteGreen127-Potassium acetate[Circle]47-6[Circle]08-2[Circle]08-2Yellow7647-Hydrochloric acid (aqueous)Green298-Potassium bicarbonate[Triangle]01-0[Circle]14-6[Circle]14-6Green904-Hydroxyethyl celluloseGreen584-Potassium carbonate, anhydrous[Circle]62-0[Circle]08-7Potassium carbonate, anhydrous[Circle]62-0[Circle]08-7Potassium carbonate, anhydrous[Circle]64-2[Circle]08-7Potassium carbonate, anhydrous[Circle]64-2[Circle]40-7Potassium clirate, anhydrous[Circle]54-5sodium saltGreen7447-Potassium clirate, anhydrous[Circle]64-2[Circle]86-6Potassium clirate, anhydrous[Circle]58-7[Circle]86-7Potassium clirate, anhydrous[Circle]58-7[Circle]1312-Potassium hydroxide[Circle]65-3[Circle]1312-Potassium lactate[Circle]41-5[Circle]31-6[Circle]Green1312-Magnesium acetateGreen1312-Green142-Magnesium acetateGreen1312-Green142-	[Circle]	6		[Circle]	9-66-0	
[Circle]30-0[Circle]70-3Half Green12173HectoriteGreen127-Potassium acetate[Circle]47-6[Circle]08-2Potassium bicarbonateYellow7647-Hydrochloric acid (aqueous)Green298-Potassium bicarbonate[Triangle]01-0[Circle]14-6Potassium carbonate, anhydrous[Circle]62-0[Circle]08-7Potassium carbonate, anhydrous[Circle]62-0[Circle]08-7Potassium carbonate, anhydrous[Circle]62-0[Circle]08-7Potassium carbonate, anhydrous[Circle]64-2[Circle]08-7Potassium carbonate, anhydrous[Circle]64-2[Circle]40-7Potassium clurate, anhydrous[Circle]132-2sodium saltGreen86-6Potassium clurate, anhydrous[Circle]-54-6sodium salt[Circle]84-2Potassium clurate, anhydrous[Circle]-54-6sodium salt[Circle]81-2Potassium clurate, anhydrous[Circle]-54-6sodium salt[Circle]81-2Potassium clurate, anhydrous[Circle]131-7LimestoneGreen1310-Potassium clurate, anhydrous[Circle]65-3[Circle]58-3[Circle]81-6[Circle]79-33L-Lactic acidGreen96-Potassium lactate[Circle]142-Magnesium acetate[Circle]31-6[Circle]142-[Cir	Green	9000-	Guar gum	Green	93763-	Perlite
Half Green12173HectoriteGreen127-Potassium acetate[Circle]47-6[Circle]08-298-7Potassium bicarbonateYellow7647-Hydrochloric acid (aqueous)Green298-Potassium bicarbonate[Triangle]01-0[Circle]14-614-6Green9044Hydroxyethyl celluloseGreen584-Potassium carbonate, anhydrous[Circle]62-0[Circle]08-77447-Potassium chloride[Circle]64-2[Circle]40-7747-Potassium chloride[Circle]64-2[Circle]86-7Potassium citrate, anhydrous[Circle]1312-sodium saltGreen86-8Potassium citrate, anhydrous[Circle]1317-LimestoneGreen1310-Potassium citrate, monohydrate[Circle]65-3[Circle]58-3[Circle]58-3Green1317-LimestoneGreen1310-Potassium lactate[Circle]6-3[Circle]58-3[Circle]58-3Green142-Magnesium acetateGreen1312-Potassium lactate[Circle]142-Magnesium acetateGreen1312-Potassium silicate[Circle]142-Magnesium acetateGreen1312-Potassium silicate[Circle]142-[Circle]1312-Potassium silicate[Circle]142-[Circle]1312-Potassium silicate	[Circle]	30-0		[Circle]	70-3	
[Circle]47-6[Circle]08-2Yellow7647-Hydrochloric acid (aqueous)Green298-Potassium bicarbonate[Triangle]01-0[Circle]14-6Green9004-Hydroxyethyl celluloseGreen584-Potassium carbonate, anhydrous[Circle]62-0[Circle]08-7Potassium carbonate, anhydrous[Circle]62-0[Circle]08-7Potassium carbonate, anhydrous[Circle]64-2[Circle]08-7Potassium chloride[Circle]64-2[Circle]40-7Potassium chloride[Circle]64-2[Circle]866-Potassium citrate, anhydrous[Circle]-54-6sodium salt[Circle]84-2Green1332-KaolinGreen6100-Potassium citrate, monohydrate[Circle]58-7[Circle]05-6[Circle]95-6Green1317-LimestoneGreen1310-Potassium hydroxide[Circle]65-3[Circle]58-3[Circle]58-3Green79-33-L-Lactic acidGreen91-6Potassium lactate[Circle]44[Circle]31-6[Circle]31-6Green142-Magnesium acetateGreen1312-Potassium silicate[Circle]142-Magnesium acetateGreen1312-Potassium silicate[Circle]72-3[Circle]56-1[Circle]56-1	Half Green	12173-	Hectorite	Green	127-	Potassium acetate
Yellow7647-Hydrochloric acid (aqueous)Green298-Potassium bicarbonate[Triangle]01-0[Circle]14-614-6Green9004-Hydroxyethyl celluloseGreen584-Potassium carbonate, anhydrous[Circle]62-0[Circle]08-7Potassium chloride14-7Green9004-Hydroxypropyl celluloseGreen7447-Potassium chloride[Circle]64-2[Circle]40-7Potassium citrate, anhydrous[Circle]-54-6sodium salt[Circle]86-7Potassium citrate, anhydrous[Circle]-54-6sodium salt[Circle]84-2Potassium citrate, anhydrous[Circle]-54-6sodium salt[Circle]84-2Potassium citrate, monohydrate[Circle]-54-6sodium salt[Circle]81-2Potassium citrate, monohydrate[Circle]-54-7[Circle]58-7Potassium citrate, monohydrate[Circle]58-7[Circle]58-3Potassium citrate, monohydrate[Circle]58-3[Circle]58-3Potassium lactate[Circle]65-3[Circle]58-3Potassium lactate[Circle]42Lactic acidGreen131-6[Circle]42-[Circle]31-6[Circle]142-Magnesium acetateGreen1312-[Circle]72-3[Circle]76-1	[Circle]	47-6		[Circle]	08-2	
[Triangle]01-0[Circle]14-6Green9004-Hydroxyethyl celluloseGreen584-Potassium carbonate, anhydrous[Circle]62-0[Circle]08-7Green9004-Hydroxypropyl celluloseGreen7447-Potassium chloride[Circle]64-2[Circle]40-7Green430439Inulin, carboxymethyl ether,Green866-Potassium citrate, anhydrous[Circle]-54-6sodium salt[Circle]84-2Green1332-KaolinGreen6100-Potassium citrate, monohydrate[Circle]58-7[Circle]05-6Green1317-LimestoneGreen1310-Potassium hydroxide[Circle]65-3[Circle]58-3Green79-33-L-Lactic acidGreen996-Potassium lactate[Circle]4	Yellow	7647-	Hydrochloric acid (aqueous)	Green	298-	Potassium bicarbonate
Green9004-Hydroxyethyl celluloseGreen584-Potassium carbonate, anhydrous[Circle]62-0[Circle]08-7[Circle]08-7Green9004-Hydroxypropyl celluloseGreen7447-Potassium chloride[Circle]64-2[Circle]40-7[Circle]40-7Green430439Inulin, carboxymethyl ether,Green866-Potassium citrate, anhydrous[Circle]-54-6sodium salt[Circle]84-2[Circle]84-2Green1332-KaolinGreen6100-Potassium citrate, monohydrate[Circle]58-7[Circle]05-6[Circle]05-6Green1317-LimestoneGreen1310-Potassium hydroxide[Circle]65-3-[Circle]58-3[Circle]58-3Green79-33-L-Lactic acidGreen996-Potassium lactate[Circle]42-Magnesium acetate[Circle]31-6Green142-Magnesium acetateGreen1312-Potassium silicate[Circle]72-31312-Potassium silicate[Circle]72-31312-Potassium silicate[Circle]72-3[Circle]76-1	[Triangle]	01-0		[Circle]	14-6	
[Circle]62-0[Circle]08-7Green9004-Hydroxypropyl celluloseGreen7447-Potassium chloride[Circle]64-2[Circle]40-77Green430439Inulin, carboxymethyl ether,Green866-Potassium citrate, anhydrous[Circle]-54-6sodium salt[Circle]84-27Green1332-KaolinGreen6100-Potassium citrate, monohydrate[Circle]58-7[Circle]05-67Green1317-LimestoneGreen1310-Potassium hydroxide[Circle]65-3-[Circle]58-37Green79-33-L-Lactic acidGreen996-Potassium lactate[Circle]4-[Circle]31-67Green142-Magnesium acetateGreen1312-Potassium silicate[Circle]72-3-Index1312-Potassium silicate	Green	9004-	Hydroxyethyl cellulose	Green	584-	Potassium carbonate, anhydrous
Green9004-Hydroxypropyl celluloseGreen7447-Potassium chloride[Circle]64-2[Circle]40-7Green430439Inulin, carboxymethyl ether,Green866-Potassium citrate, anhydrous[Circle]-54-6sodium salt[Circle]84-2Green1332-KaolinGreen6100-Potassium citrate, monohydrate[Circle]58-7[Circle]05-6Green1317-LimestoneGreen1310-Potassium hydroxide[Circle]65-3[Circle]58-3[Circle]58-3Green79-33-L-Lactic acidGreen996-Potassium lactate[Circle]4[Circle]31-6[Circle]31-6Green142-Magnesium acetateGreen1312-Potassium silicate[Circle]72-3[Circle]76-1[Circle]76-1	[Circle]	62-0		[Circle]	08-7	
[Circle]64-2[Circle]40-7Green430439Inulin, carboxymethyl ether,Green866-Potassium citrate, anhydrous[Circle]-54-6sodium salt[Circle]84-2Green1332-KaolinGreen6100-Potassium citrate, monohydrate[Circle]58-7[Circle]05-6Green1317-LimestoneGreen1310-Potassium hydroxide[Circle]65-3[Circle]58-3[Circle]58-3Green79-33-L-Lactic acidGreen996-Potassium lactate[Circle]4[Circle]31-6[Circle]31-6Green142-Magnesium acetateGreen1312-Potassium silicate[Circle]72-3[Circle]76-1[Circle]76-1	Green	9004-	Hydroxypropyl cellulose	Green	7447-	Potassium chloride
Green430439Inulin, carboxymethyl ether, sodium saltGreen866- (Circle]Potassium citrate, anhydrous[Circle]-54-6sodium salt[Circle]84-2Green1332-KaolinGreen6100- (Circle]Potassium citrate, monohydrate[Circle]58-7[Circle]05-6Green1317-LimestoneGreen1310- (Circle]Potassium hydroxide[Circle]65-3[Circle]58-3Green79-33-L-Lactic acidGreen996- (Circle]Potassium lactate[Circle]4[Circle]31-6Green142-Magnesium acetateGreen1312- (Circle]Potassium silicate[Circle]72-3	[Circle]	64-2		[Circle]	40-7	
[Circle]-54-6sodium salt[Circle]84-2Green1332-KaolinGreen6100-Potassium citrate, monohydrate[Circle]58-7[Circle]05-6Green1317-LimestoneGreen1310-Potassium hydroxide[Circle]65-3[Circle]58-3Green79-33-L-Lactic acidGreen996-Potassium lactate[Circle]4[Circle]31-6Green142-Magnesium acetateGreen1312-Potassium silicate[Circle]72-3[Circle]76-176-1	Green	430439	Inulin, carboxymethyl ether,	Green	866-	Potassium citrate, anhydrous
Green1332- 1332-KaolinGreen6100- 100-Potassium citrate, monohydrate[Circle]58-7[Circle]05-6Green1317-LimestoneGreen1310- 1310-Potassium hydroxide[Circle]65-3[Circle]58-3Green79-33-L-Lactic acidGreen996- 996-Potassium lactate[Circle]4[Circle]31-6Green142-Magnesium acetateGreen1312- [Circle][Circle]72-3[Circle]76-1	[Circle]	-54-6	sodium salt	[Circle]	84-2	
[Circle]58-7[Circle]05-6Green1317-LimestoneGreen1310-Potassium hydroxide[Circle]65-3[Circle]58-3Fenn996-Potassium lactate[Circle]4[Circle]31-6Green1312-Potassium silicate[Circle]142-Magnesium acetateGreen1312-Potassium silicate[Circle]72-3[Circle]76-1Fenn1312-	Green	1332-	Kaolin	Green	6100-	Potassium citrate, monohydrate
Green1317-LimestoneGreen1310-Potassium hydroxide[Circle]65-3[Circle]58-3Green79-33-L-Lactic acidGreen996-Potassium lactate[Circle]4[Circle]31-6Green142-Magnesium acetateGreen1312-Potassium silicate[Circle]72-3[Circle]76-1	[Circle]	58-7		[Circle]	05-6	
[Circle]65-3[Circle]58-3Green79-33-L-Lactic acidGreen996-Potassium lactate[Circle]4[Circle]31-6Green142-Magnesium acetateGreen1312-Potassium silicate[Circle]72-3[Circle]76-1	Green	1317-	Limestone	Green	1310-	Potassium hvdroxide
Green79-33-L-Lactic acidGreen996-Potassium lactate[Circle]4[Circle]31-6Green142-Magnesium acetateGreen1312-Potassium silicate[Circle]72-3[Circle]76-1	[Circle]	65-3		[Circle]	58-3	,
[Circle]4[Circle]31-6Green142-Magnesium acetateGreen1312-Potassium silicate[Circle]72-3[Circle]76-1	Green	79-33-	L-Lactic acid	Green	996-	Potassium lactate
Green142-Magnesium acetateGreen1312-Potassium silicate[Circle]72-3[Circle]76-1	[Circle]	4		[Circle]	31-6	
[Circle] 72-3 [Circle] 76-1	Green	142-	Magnesium acetate	Green	1312-	Potassium silicate
	[Circle]	72-3		[Circle]	76-1	

Green	7778-	Potassium sulfate	Green	533-	Sodium sesquicarbonate
[Circle]	80-5		[Circle]	96-0	
Green	1332-	Pumice	Green	1344-	Sodium silicate
[Circle]	09-8		[Circle]	09-8	
Green	68909-	Silanamine, 1,1,1-trimethyl-N-	Green	9063-	Sodium starch glycolate
[Circle]	20-6	(trimethylsilyl)-, hydrolysis	[Circle]	38-1	
		products with silica	Green	7757-	Sodium sulfate
			[Circle]	82-6	
Green	7631-	Silica	Green	7757-	Sodium sulfite
[Circle]	86-9		[Circle]	83-7	
Green	63231-	Silica gel	Half Green	7772-	Sodium thiosulfate
[Circle]	67-4		[Circle]	98-7	
Green	10213-	Silicic acid, disodium salt,	Half Green	10102-	Sodium thiosulfate, pentahydrate
[Circle]	79-3	pentahydrate	[Circle]	17-7	
Green	409-	Silicon carbide	Green	50-70-	Sorbitol
[Circle]	21-2		[Circle]	4	
Green	12199-	Smectite-group minerals	Green	8001-	Soybean oil
[Circle]	37-0		[Circle]	22-7	
Green	127-	Sodium acetate	Green	9005-	Starch
[Circle]	09-3		[Circle]	25-8	
Green	144-	Sodium bicarbonate	Green	9049-	Starch, 2-hydroxypropyl ether
[Circle]	55-8		[Circle]	76-7	
Green	7681-	Sodium bisulfate	Green	57-50-	Sucrose
[Circle]	38-1		[Circle]	1	
Green	497-	Sodium carbonate, anhydrous	Green	5329-	Sulfamic acid
[Circle]	19-8		[Circle]	14-6	
Green	5968-	Sodium carbonate, monohydrate	Yellow	7664-	Sulfuric acid (aqueous)
[Circle]	11-6		[Triangle]	93-9	
Green	7647-	Sodium chloride	Green	7631-	Sulfurous acid, monosodium salt
[Circle]	14-5		[Circle]	90-5	,
Green	68-04-	Sodium citrate, anhydrous	Half Green	107-	Taurine
[Circle]	2		[Circle]	35-7	
Green	6132-	Sodium citrate, dihydrate	Green	13463-	Titanium (IV) oxide
[Circle]	04-3		[Circle]	67-7	
Green	18996-	Sodium dihydrogen citrate	Green	207308	Urea methanesulfonate (1.1)
[Circle]	35-5	Southin anythogen chatte	[Circle]	-34-7	
Green	141-	Sodium formate	Green	8028-	Vinegar
	53-7	Solumioniate		52-2	Vinegai
Green	527-	Sodium gluconate	Green	11128-	Yanthan gum
	07-1	Southin graconate		66-2	Xanthan guin
Groop	1210	Sodium hydrovido	Groop	1210	Zaalitas
	1310- 72_2	Solium nyuroxide		1310- 02_1	Zeontes
Croon	75-2 067	Sadium lactata	[Circle]	02-1	to
Green [Circlo]	607- 56 1	Sourium lactate			
Croop	JU-1 72 17	Codium loctoto	Green	299-	Calcium gluconate
Green	72-17- 2	Sodium lactate	[Circle]	28-5	
Circlej	5		Half Green	137-	Calcium pantothenate
Green	53320-	Sodium magnesium silicate	[Circle]	08-6	
[Circle]	86-8		Green	8002-	Cocoa butter
Green	6834- 02-0	Sodium metasilicate	[Circle]	31-1	
[Circle]	92-0		Green	8001-	Cottonseed oil
Green	137-	Sodium propionate	[Circle]	29-4	
[Circle]	40-6		Green	8016-	Cuburbita pepo seed oil
			[Circle]	49-7	

Green	27138-	Dipropylene glycol dibenzoate	Green	112-	1-Dodecanol
[Circle]	31-4		[Circle]	53-8	
Half Green	16485-	DL-Panthenol	Green [Circle]	107- 08-2	1-Methoxy-2-propanol
	10-2	Depathonal	Croop	1560	1 Proposy 2 proposal
Half Green	81-13- 0	D-Panthenol	Green [Circle]	1569- 01-3	1-Ргороху-2-ргораної
Green	8024-	Fats and Glyceridic oils, avocado	Half Green	112-	1-Undecanol
	27.6			112- 12-5	
Groop	52-0 60552	Fats and Glycoridic oils, rico bran	Green	42 J	2 2-dimethyl-1 3-Diovolane-1-
	00555-	Tats and Orycentic ons, nee bran		70_8	methanol
Groop	01-1	Fats and Glycoridic oils, sosamo	Green	107-	2-Methyl-2 4-pentapedial
Green	74.0	Fats and Grycenuc ons, sesame		107-	z-methyl-z,4-pentallediol
Croop	74-0 22251	Clusebontaneis asid	Groop	41-5	2 Mothovy/butyl acotato
Green	23351-	Gluconeptanoic acid	[Circlo]	4455- 52 A	S-Methoxybutyl acetate
Crean	51-1	Chuserides, CO 10 and C10 unset	Croon	55-4	2 Mothul 2 mothowyhytanol
Green	6//UI-	Glycendes, C8-18 and C18-unsatd.	Green	50539- 66 3	3-Methyl-3-methoxybutanoi
	28-4	the second set		00-3	4 Underson weighted 1.2 disusters 2
Half Green	8001-	Linseed oil	Half Green	931-	4-Hydroxymethyl-1,3-dloxolan-2-
[Circle]	26-1		[Circle]	40-8	one
Half Green	63-68-	L-Methionine	Yellow	39202-	9-Dodecenoic acid, methyl ester
[Circle]	3		[Iriangle]	17-0	
Green	111-	Methyl laurate	Green	67762-	Alcohols, C10-16
[Circle]	82-0		[Circle]	41-8	
Green	106457	Oils, oat	Half Green	66455-	Alcohols, C9-11
[Circle]	-91-4		[Circle]	17-2	
Green	68917-	Oils, wheat	Green	5405-	Butanoic acid, 3-hydroxy-, ethyl
[Circle]	73-7		[Circle]	41-4	ester
Half Green	79-83-	Panthothenic acid	Green	92011-	Butyl-3-hydroxy-2-methylbuyrate
[Circle]	4		[Circle]	00-2	
Green	299-	Potassium gluconate	Green	53605-	Butyl-3-hydroxybutanoate
[Circle]	27-4		[Circle]	94-0	
Green	8001-	Safflower oil	Green	68425-	Coconut alcohol
[Circle]	23-8		[Circle]	37-6	
Green	111-	Squalane	Yellow	112-	Diethylene glycol mono-N-butyl
[Circle]	01-3		[Triangle]	34-5	ether
Green	8001-	Sunflower oll	Green	627-	Dimethyl adipate
	21-6		[Circle]	93-0	
Solvents			Green	14035-	Dimethyl ethylsuccinate
Green	20324-	1-(2-Methoxy-1-methylethoxy)-2-	[Circle]	95-1	
[Circle]	32-7	propanol	Green	1119-	Dimethyl glutarate
Green	110-	1,1'-Dimethyldiethylene glycol	[Circle]	40-0	
[Circle]	98-5		Green	106-	Dimethyl succinate
Green	584-	1,2-Butanediol	[Circle]	65-0	
[Circle]	03-2		Green	25265-	Dipropylene glycol
Green	6920-	1,2-Hexanediol	[Circle]	71-8	
[Circle]	22-5		Green	34590-	Dipropylene glycol methyl ether
Green	57-55-	1,2-Propanediol	[Circle]	94-8	
[Circle]	6		Yellow	29911-	Dipropylene glycol monobutyl
Green	107-	1,3-Butanediol	[Triangle]	28-2	ether
[Circle]	88-0		Yellow	29911-	Dipropylene glycol propyl ether
Half Green	4437-	1,3-Dioxolan-2-one, 4-ethyl-	[Triangle]	27-1	, ., ., .,
[Circle]	85-8		Yellow	5989-	D-Limonene
Green	504-	1,3-Propanediol	[Triangle]	27-5	
[Circle]	63-2			-	

Green	64-17-	Ethanol	Green	7732-	Water
[Circle]	5		[Circle]	18-5	
Half Green	97-64- 2	Ethyl lactate	Green	8042-	White mineral oil, petroleum
	3			47-5	SI · I
Half Green	/63-	Ethyl-3-ethoxy propionate	Specialized I	ndustrial C	nemicals
[Circle]	69-9		Yellow	27136-	1H-Imidazole-1-ethanol, 2-
Yellow	68937-	Fatty acids, C12-18, methyl esters	[Triangle]	73-8	(heptadecenyl)-4,5-dihydro-
[Triangle]	84-8		Yellow	1066-	Ammonium bicarbonate
Yellow	67762-	Fatty acids, C16-18 and C18-	[Triangle]	33-7	
[Triangle]	38-3	unsatd., methyl esters	Yellow	506-	Ammonium carbonate
Yellow	68919-	Fatty acids, soya, Me esters	[Triangle]	87-6	
[Triangle]	53-9		Yellow	1336-	Ammonium hydroxide
Green	73398-	Glycerides, mixed decanoyl and	[Triangle]	21-6	
[Circle]	61-5	octanoyl	Yellow	34455-	Amphoteric fluorinated surfactant
Green	56-81-	Glycerol	[Triangle]	29-3	
[Circle]	5		Yellow	452080	Boron, trifluoro(tetrahydrofuran)-,
Green	67-63-	Isopropanol	[Triangle]	-64-7	(T-4)-, polymer with 3-methyl-3-
[Circle]	0				[(2,2,2-
Green	54074-	Isopropyl 3-hydroxybutyrate			trifluoroethoxy)methylloxetane.
[Circle]	94-1				ether with 2.2-dimethyl-1.3-
Half Green	110-	Isopropyl myristate			propanediol (2:1), bis(hydrogen
[Circle]	27-0				sulfate), diammonium salt
Green	111-	Methyl laurate			
[Circle]	82-0	inetriji laurate			
Green	14035-	Pentanedioic acid 2-methyl- 15-	Vollow	152080	Poron trifluoro(totrahydrofuran)
	94-0	dimethyl ester	Trianglol	432080	(T_{4}) nolymor with 2 mothyl 2
Green	53/3-		[IIIaligie]	-07-0	
	02-U				[(2,2,3,3,3,5)]
Vollow	52-0 1⊑211	Polypropylopo glycol			a other with 2.2 dimethyl 1.2
[Trianglo]	23322-				propagodial (2:1) bis(bydrogon
Croon	09-4	Dropopol 1 (or 2) 2 mothow mothod			sulfate) diammanium calt
Green	88917-	Propanoi 1 (or 2)-2-metnoxymetnyi			sunate), diammonium sait
[Circle]	22-0	etnoxy, acetate			
Yellow	25498-	Propanol, [2-(2-	Yellow	141-	Ethanolamine
[Triangle]	49-1	methoxymethylethoxy)methyletho	[Triangle]	43-5	
		xy]-	Yellow	67762-	Fatty acids, C16-18 and C18-
Green	109-	Propyl acetate	[Triangle]	38-3	unsatd., methyl esters
[Circle]	60-4		Yellow	68919-	Fatty acids, soya, Me esters
Green	108-	Propylene carbonate	[Triangle]	53-9	
[Circle]	32-7		Yellow	27619-	Halogenated aliphatic acid
Green	108-	Propylene glycol methyl ether	[Triangle]	97-2	0
[Circle]	65-6	acetate	Yellow	67784-	Sovbean oil, methyl esters
Green	5131-	Propylene glycol n-butyl ether	[Triangle]	80-9	
[Circle]	66-8		Yellow	78-51-	Tri-2-Butoxyethyl phosphate
Yellow	67784-	Sovbean oil methylesters	[Triangle]	3	
[Triangle]	80-9		Vellow	102-	Triethanolamine
Half Green	112-	Tetraethylene glycol	Trianglol	71 6	methanolamme
		readeniyiene giyeor	[I I I all gle]	/ 1-0	
Green	2/1200		Surractarits	12002 6	
[Circla]	2-1000- 111-0	The opyretic Blycol	Green	128824	1-Dodecanesultonic acid, hydroxy-,
Green	55021	Tripropylene glycol n-butyl othor	[UITCIE]	-30-6	socium sait
[Circla]	93-5	The opyrene Brycol II-butyl ether			
[energ]					

Green [Circle]	147170 -44-3	1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N-dimethyl-, N-	Green [Circle]	68551- 13-3	Alcohols, C12-15, ethoxylated propoxylated
		(C8-18 and C18-unsatd. acyl)	Green	120313	Alcohols, C12-15-branched and
		derivs., inner salts	[Circle]	-48-6	linear, ethoxylated propoxylated
Green	61789-	1-Propanaminium, 3-amino-N-	Green	68551-	Alcohols, C12-16, ethoxylated
[Circle]	39-7	(Carboxymethyl)-N,N-dimethyl-, N-	[Circle]	12-2	Alashala C12 10
		coco acyr denvs., chiondes, sodiam	[Circle]	07702-	Alcohols, C12-18
		50115	Croop	146240	Alcohola C12 18 others with
Croop	61700	1 Dropopominium 2 amino N	[Circlo]	140540	Alcohols, C12-18, ethers with
	40-0	(carboxymethyl)-N N-dimethyl- N-	[enele]	-10-1	polyethylene giyeor mono-bu ether
[circic]	40 0	coco acyl derivs inner salts	Green	68213-	Alcohols C12-18 ethoxylated
			[Circle]	23-0	
Green	73772-	1-Propanaminium N-	Green	68951-	Alcohols C14-15 ethoxylated
[Circle]	45-9	(carboxymethyl)-N N-dimethyl-3-	[Circle]	67-7	
[enere]	43 3	[(1-oxodecyl)amino]- inner salt	Green	68439-	Alcohols C16-18 ethoxylated
			[Circle]	49-6	
			Green	70879-	Alcohols, C6-10, ethoxylated
Green	73772-	1-Propanaminium N-	[Circle]	83-3	
[Circle]	46-0	(carboxymethyl)-N.N-dimethyl-3-	Green	68987-	Alcohols, C6-10, ethoxylated
		[(1-oxooctyl)amino]-, inner salt	[Circle]	81-5	propoxylated
			Green	68439-	Alcohols, C6-12, ethoxylated
			[Circle]	45-2	
Green	125590	2-Ethylhexyl-alpha-D-glucoside	Green	68937-	Alcohols, C6-12, ethoxylated and
[Circle]	-73-0	, , , , , ,	[Circle]	66-6	propoxylated
Green	161074	2-Ethylhexyl-poly-D-glucosides			
[Circle]	-93-7		Green	71060-	Alcohols, C8-10, ethoxylated
Green	506-	9-Eicosenoic acid	[Circle]	57-6	
[Circle]	31-0		Green	68603-	Alcohols, C8-10, ethoxylated
Green	68154-	Alcohols, C10-12, ethoxylated	[Circle]	25-8	propoxylated
[Circle]	97-2	propoxylated	Green	69013-	Alcohols, C8-18, ethoxylated
Green	66455-	Alcohols, C10-14, ethoxylated	[Circle]	18-9	propoxylated
[Circle]	15-0		Green	68439-	Alcohols, C9-11, ethoxylated
Green	68002-	Alcohols, C10-16, ethoxylated	[Circle]	46-3	
[Circle]	97-1		Green	73296-	Alkyl(C12-C16)alcohol sulfate
Green	69227-	Alcohols, C10-16, ethoxylated	[Circle]	89-6	sodium salt
[Circle]	22-1	propoxylated	Green	70851-	Amides, coco, N-[3-
Green	78330-	Alcohols, C11-14-iso-, C13-rich,	[Circle]	07-9	(dimethylamino)propyl], alkylation
[Circle]	21-9	ethoxylated			products with chloroacetic acid,
Green	68131-	Alcohols, C11-15-secondary,			sodium salts
[Circle]	40-8	ethoxylated	_		
Green	66455-	Alcohols, C12-13, ethoxylated	Green	70592-	Amines, C10-16-alkyldimethyl, N-
[Circle]	14-9		[Circle]	80-2	oxides
Green	68439-	Alcohols, C12-14, ethoxylated	Green	68955-	Amines, C12-18-alkyldimethyl, N-
[Circle]	50-9		[Circle]	55-5	oxides
Green	68439-	Alcohols, C12-14, ethoxylated	Green	61791-	Amines, coco alkyl dihydroxyethyl,
[Circle]	51-U	propoxylated		4/-/	
Green	84133-	Alconols, C12-14-Secondary,	Green	2235-	Ammonium lauryi sultate
Cross	0-00 01-01	eliiuxyialeu	[Circle]	54-3 26447	Ammonium valon coulforate
	20-2 20 ⁻ 2	AILUHUIS, CIZ-IS, ELHUXYIALEU		20447- 10₋0	Animonium xylenesunonate
[Circle]	55-5		[Circle]	TO-2	

Green	506-	Arachidic acid	Green	161074	C8-10 Alkyl-poly-D-glucosides
[Circle]	30-9		[Circle]	-97-1	
Green	112-	Behenic acid	Green	141464	C8-16 Alkyl-poly-D-glucosides
[Circle]	85-6		[Circle]	-42-8	
Green	32073-	Benzene, (1-methylethyl)-,	Green	132778	C9-11 Alkyl-poly-D-glucosides
[Circle]	22-6	monosulfo deriv., sodium salt (1:1)	[Circle]	-08-6	
			Green	2605-	Capric dimethyl amine oxide
Green	85536-	Benzenesulfonic acid, 4-C10-13-	[Circle]	79-0	
[Circle]	14-7	sec-alkyl derivs.	Green	68187-	Castor oil, sulfated, sodium salt
Green	127184	Benzenesulfonic acid, 4-C10-13-	[Circle]	76-8	
[Circle]	-52-5	sec-alkyl derivs., sodium salts	Green	7128-	Cetamine oxide
			[Circle]	91-8	
Green	69669-	Benzenesulfonic acid, C10-14-alkyl	Green	68139-	Cocamidopropyl hydroxysultaine
[Circle]	44-9	derivs., sodium salts	[Circle]	30-0	
			Green	68155-	Cocamidopropylamine oxide
Green	68584-	Benzenesulfonic acid, C10-16-alkyl	[Circle]	09-9	
[Circle]	22-5	derivs.	Green	61788-	Cocamine oxide
Green	68584-	Benzenesulfonic acid, C10-16-alkyl	[Circle]	90-7	
[Circle]	26-9	derivs., magnesium salts	Green	61791-	Coconut fatty acids, ethoxylated
			[Circle]	29-5	
Green	68081-	Benzenesulfonic acid, mono-C10-	Green	68814-	Coconut oil, sodium salt
[Circle]	81-2	16-alkyl derivs., sodium salts	[Circle]	96-0	
			Green	53980-	Cyclocarboxypropyloleic acid
Green	94441-	beta-Alanine, N-(2-carboxyethyl)-	[Circle]	88-4	
[Circle]	92-6	N-(2-ethylhexyl)-, sodium salt (1:1)	Green	334-	Decanoic Acid
			[Circle]	48-5	
			Green	13040-	Decanoic acid, potassium salt (1:1)
Green	72869-	Betaines, C10-16-alkyl(2-hydroxy-	[Circle]	18-1	
[Circle]	77-3	3-sulfopropyl)dimethyl	Green	1002-	Decanoic acid, sodium salt
			[Circle]	62-6	
Green	68424-	Betaines, coco alkyldimethyl	Green	68515-	Decyl, octyl-poly-D-glucosides
[Circle]	94-2		[Circle]	73-1	
Green	3006-	Bis(1-methylamyl) sodium	Green	1322-	Decylbenzenesulfonic acid
[Circle]	15-3	sulfosuccinate	[Circle]	98-1	
Green	68815-	Butanedioic acid, sulfo-,	Green	161074	Decyl-poly-D-glucosides
[Circle]	56-5	mono(C10-C16)alkyl ethoxylated	[Circle]	-85-7	
		ester, disodium salt	Green	151911	D-Glucopyranose, oligomeric, 6-
			[Circle]	-51-2	(dihydrogen 2-hydroxy-1,2,3-
Green	31387-	Butyl D-glucoside			propanetricarboxylate), 1-(coco
[Circle]	97-0	, .			alkyl) ethers, sodium salts
Green	510758	Butyl poly-D-glucosides			
[Circle]	-10-8	, , , , ,			
Green	90194-	C10-13 Alkyl benzenesulfonic acid,	Green	742087	D-Glucopyranose, oligomeric, C10-
[Circle]	45-9	sodium salts	[Circle]	-49-6	16-alkyl glycosides, 2-hydroxy-3- sulfopropyl ethers, sodium salts
Green	110615	C10-16 Alkyl-poly-D-glucosides			
[Circle]	-47-9	, 0			
Green	157707	C12-14 Alkyl-poly-D-glucosides	Green	3088-	Diethylene glycol momolaurvl
[Circle]	-88-5	, , , , , , , , , , , , , , , , , , , ,	[Circle]	31-1	ether sodium sulfate
Green	510759	C12-16 Alkyl-poly-D-glucosides			-
[Circle]	-65-6	, , , , , , , , , , , , , , , , , , , ,	Green	68187-	Disodium cocovl glutamate
Green	113976	C6-12 Alkyl-poly-D-glucosides	[Circle]	30-4	
[Circle]	-90-2	, , , , , , , , , , , , , , , , , , , ,			

Green [Circle]	3655- 00-3	Disodium lauriminodipropionate	Green [Circle]	67701- 08-0	Fatty acids, C16-18 and C18- unsatd.
Green	32208-	Distearoylethyl	Green	68955-	Fatty acids, C16-18 and C18-
[Circle]	04-1	hydroxyethylmonium methosulfate	[Circle]	98-6	unsatd., branched and linear
Green	143-	Dodecanoic acid	Green	67701-	Fatty acids, C8-18 and C18-unsatd.
[Circle]	07-7		[Circle]	05-7	_
Green	928663	Dodecanoic acid, methyl-2-	Green	61788-	Fatty acids, coco
[Circle]	-45-0	sulfoethyl ester, sodium salt (1:1)	[Circle]	47-4	
			Green	61789-	Fatty acids, coco, sodium salts
Green	10124-	Dodecanoic acid, potassium salt	[Circle]	31-9	
[Circle]	65-9		Green	61789-	Fatty acids, coconut oil, potassium
Green	629-	Dodecanoic acid, sodium salt	[Circle]	30-8	salts
[Circle]	25-4		Green	61789-	Fatty acids, coconut oil, sulfoethyl
Green [Circle]	30965- 85-6	Dodecene-1-sulfonic acid, sodium salt	[Circle]	32-0	esters, sodium salts
Green	9002-	Dodecyl alcohol, ethoxylated	Green	61789-	Fatty acids, olive-oil, sodium salts
[Circle]	92-0		[Circle]	88-6	
Green	3055-	Dodecyl triethylene glycol ether	Green	68440-	Fatty acids, palm kernel-oil, methyl
[Circle]	94-5		[Circle]	13-1	esters, sulfonated, sodium salts
Green	27176-	Dodecylbenzene sulfonic acid			
[Circle]	87-0		Green	61790-	Fatty acids, palm-oil, sodium salts
Green	59122-	Dodecyl-beta-D-glucoside	[Circle]	79-2	
[Circle]	55-3		Green	68440-	Fatty acids, safflower-oil, sodium
Green	107918	Ethanaminium, 2-hydroxy-N-(2-	[Circle]	19-7	salts
[Circle]	4-43-2	hydroxyethyl)-N,N-dimethyl-,	Green	61790-	Fatty acids, tall-oil
		esters with C16-18 and C18-unsatd.	[Circle]	12-3	
		fatty acids, chlorides	Green	61790-	Fatty acids, tall-oil, potassium salts
			[Circle]	44-1	
Green	157905	Ethanaminium, 2-hydroxy-N,N-	Green	61790-	Fatty acids, tall-oil, sodium salts
[Circle]	-74-3	bis(2-hydroxyethyl)-N-methyl-,	[Circle]	45-2	
		esters with C16-18 and C18-unsatd.	Green	61790-	Fatty acids, tallow
		fatty acids, methyl sulfates (salts)	[Circle]	37-2	
			Green	68605-	Fatty acids, tallow, hydrogenated,
			[Circle]	97-0	compds. with triethanolamine
Green	67846-	Ethanaminium, N,N-dimethyl-2-[(1-			
[Circle]	68-8	oxooctadecyl)oxy]-N-[2-[(1-	Green	8052-	Fatty acids, tallow, sodium salts
		oxooctadecyl)oxy]ethyl]-, chloride	[Circle]	48-0	
			Green	137-	Gardol
			[Circle]	16-6	
Green	4219-	Ethylene glycol monopalmitate	Green	67701-	Glycerides, C14-18 mono- and di-
[Circle]	49-2		[Circle]	33-1	
Green	111-	Ethylene glycol monostearate	Green	68424-	Glycerides, C16-18 and C18-unsatd.
[Circle]	60-4		[Circle]	61-3	mono- and di-
Green	68002-	Fatty acids, C10-16	Green	85251-	Glycerides, C16-18 mono- and di-
[Circle]	90-4		[Circle]	77-0	
Green	149458	Fatty acids, C12-18, methyl esters,	Green	91052-	Glycerides, C8-18 and C18-unsatd.
[Circle]	-07-1	sulfonated, sodium salts	[Circle]	13-0	mono- and di-, acetates
Green	67701-	Fatty acids, C14-18 and C16-18-	Green	736150	Glycerides, castor-oil mono-,
[Circle]	06-8	unsatd.	[Circle]	-63-3	hydrogenated, acetates
Green	67701-	Fatty acids, C16-18	Green	37220-	Glycerine oleate
[Circle]	03-5		[Circle]	82-9	

Green [Circle]	111- 03-5	Glyceryl monooleate	Green [Circle]	59272- 84-3	Myristamidopropyl betaine
Green	25496-	Glyceryl monooleate [NF]	Green	544-	Myristoleic acid
[Circle]	72-4	, ,	[Circle]	64-9	
Green	123-	Glyceryl monostearate	Green	27306-	Myristyl alcohol, ethoxylated
[Circle]	94-4		[Circle]	79-2	
Green	31566-	Glyceryl monostearate	Green	68608-	N-(3-Alkyl(C12-C15)oxypropyl)-3-
[Circle]	31-1	, ,	[Circle]	69-5	iminodipropionic acid.
Green	11099-	Glyceryl stearates	[]		monosodium salt
[Circle]	07-3	, ,			
Green	68411-	Glvcine. N-methyl N-coco acyl	Green	3332-	N.N-Dimethyl-1-tetradecanamine-
[Circle]	97-2	derivs.	[Circle]	27-2	N-oxide
Green	627-	Glvcol distearate	Green	1643-	N.N-Dimethyldodecylamine oxide
[Circle]	83-8		[Circle]	20-5	
Green	506-	Heptadecanoic acid	[]		
[Circle]	12-7		Green	27252-	n-Octylpolyoxyethylene
Green	142-	Hexanoic Acid	[Circle]	75-1	
[Circle]	62-1		Green	2687-	N-Octylpyrrolidone
Green	54549-	Hexyl D-glucoside	[Circle]	94-7	N Octypy Tondone
[Circle]	24-5	Texy D Sheeshee	Green	124-	Octanoic acid
Green	31726-	Heryl poly(oxyethylene) ether	[Circle]	07-2	
	31-8	nexy poly(oxyethylene) ether	Half Green	26402-	Octanoic acid monoester with
Green	54 0 68604-	Imidazolium compounds 1-[2-(2-		26-6	1 2 3-propagetriol
	71_7	carboxyetboxy)etbyl]-1(or 3)-(2-	Green	20 0 764-	Octanoic acid notassium salt
[enele]	/1-/	carboxyethoxy)ethyl]-1(013)-(2-		704-	Octanoic acid, potassium sait
		norcoco alkyl hydroxides	Croop	71-0 C001E	Octanoic acid reaction products
		disodium salts		00013-	with 2 [/2
			[CIICIE]	55-4	aminoothyl)aminolothanol acrylic
Croon	67.62	Icontononal			animoethyjanimojethanoi, acrylic
Green	07-03-	isopropanoi			aciu aikylateu (1.2), uisoululli saits
Crean	0		Create	20026	Ostul hata Dislussoida
Green	4292-	Lauramidopropyi betaine	Green	29836-	Octyl-beta-D-glucoside
Croon	10-8	Lauramidan ranulamina avida	[Circle]	20-8	Ostudimethylemine evide
Green	01/92-		Green	2005-	Octyldimethylamine oxide
[Circle]	31-2	term diberdue and the base	[Circle]	78-9	
Green	13197-	Lauryi nydroxysultaine	Green	27593-	Octyldimethylbetaine
[Circle]	/6-/		[Circle]	14-2	
Green	683-	Lauryldimethylbetaine	Green	112-	Oleic acid
[Circle]	10-3		[Circle]	80-1	
Green	8002-	Lecitnins	Green	143-	Oleic acid, sodium salt
[Circle]	43-5			19-1	
Green	557-	Lignoceric acid	Half Green	166/36	Oxirane, 2-methyl-, polymer with
[Circle]	59-5		[Circle]	-08-9	oxirane, mono(2-propyineptyi)
Green	60-33-	Linoleic acid			ether
[Circle]	3		-		
Green	463-	Linolenic acid	Green	64366-	Oxirane, methyl-, polymer with
[Circle]	40-1		[Circle]	70-7	oxirane, mono(2-ethylhexyl) ether
Green	3097-	Magnesium lauryl sulfate			
[Circle]	08-3		Green	57-10-	Palmitic acid
Half Green	557-	Magnesium stearate	[Circle]	3	
[Circle]	04-0		Green	9003-	Poloxalene
Green	67806-	Myristamido propylamine oxide	[Circle]	11-6	
[Circle]	10-4				

Green	39354-	Poly(oxy-1,2-ethanediyl), .alpha	Green	24938-	Polyethylene glycol mono(tridecyl)
[Circle]	45-5	(3-carboxy-1-oxo-3-sulfopropyl)-	[Circle]	91-8	ether
		.omega(dodecyloxy)-, disodium	Green	68585-	Polyethylene glycol mono-C10-16-
		salt	[Circle]	34-2	alkyl ether sulfate sodium salt
Green	53563-	Poly(oxy-1,2-ethanediyl), .alpha	Green	68891-	Polyethylene glycol mono-C12-14-
[Circle]	70-5	(carboxymethyl)omega	[Circle]	38-3	alkyl ether sulfate sodium salt
		(octyloxy)-			
Green	26183-	Poly(oxy-1,2-ethanediyl), .alpha	Green	9004-	Polyethylene glycol monoleyl ether
[Circle]	52-8	decylomegahydroxy-	[Circle]	98-2	
			Green	9004-	Polyethylene glycol stearate
Green	67762-	Poly(oxy-1,2-ethanediyl), .alpha	[Circle]	99-3	
[Circle]	19-0	sulfoomegahydroxy-, C10-16-	Half Green	9005-	Polyoxyethylene dioleate
		alkyl ethers, ammonium salts	[Circle]	07-6	
			Green	9004-	Polyoxyethylene monoleate
Green	68037-	Poly(oxy-1,2-ethanediyl), .alpha	[Circle]	96-0	
[Circle]	05-8	sulfoomegahydroxy-, C6-10-alkyl	Green	9005-	Polyoxyethylene monooctadecyl
		ethers, ammonium salts	[Circle]	00-9	ether
			Green	34398-	Polyoxyethylene monoundecyl
Half Green	160875	Poly(oxy-1,2-ethanediyl), alpha-(2-	[Circle]	01-1	ether
[Circle]	-66-1	propylheptyl)-omega-hydroxy-	Green	9005-	Polyoxyethylene sorbitan trioleate
			[Circle]	70-3	
Green	68954-	Poly(oxy-1,2-ethanediyl), alpha-(3-	Green	9005-	Polysorbate 80
[Circle]	91-6	carboxy-1-oxosulfopropyl)-omega-	[Circle]	65-6	
		hydroxy-, C10-12-alkyl ethers,	Green	68127-	Potassium acrylinoleate
		disodium salts	[Circle]	33-3	
			Green	226993	Potassium babassuate
Green	70750-	Poly(oxy-1,2-ethanediyl), alpha-	[Circle]	-76-6	
[Circle]	17-3	(carboxymethyl)-omega-hydroxy-,	Green	27177-	Potassium dodecylbenzene
		C12-13-alkyl ethers	[Circle]	77-1	sulfonate
			Half Green	17378-	Potassium heptadecanoate
Green	220622	Poly(oxy-1,2-ethanediyl), alpha-	[Circle]	36-8	
[Circle]	-96-8	(carboxymethyl)-omega-hydroxy-	Green	3414-	Potassium linoleate
		,C12-14-alkyl ethers	[Circle]	89-9	
			Green	13429-	Potassium myristate
Green	109075	Poly(oxy-1,2-ethanediyl), alpha-	[Circle]	27-1	
[Circle]	-72-1	butyl-omega-(octyloxy)-	Green	2624-	Potassium palmitate
			[Circle]	31-9	
Green	501019	Poly(oxy-1,2-ethanediyl), alpha-	Green	593-	Potassium palmitoleate
[Circle]	-91-6	hydro-omega-hydroxy-, mono-C8-	[Circle]	29-3	
		10-alkyl ethers, ethers with 1,2-	Green	910661	Propanoic acid, 2-hydroxy-, 2-(C10-
		dodecanediol (1:1)	[Circle]	-93-7	16-alkyloxy)-1-methyl-2-oxoethyl
					ester
Green	69011-	Poly(oxy-1,2-ethanediyl), alpha-	Green	73138-	Quaternary ammonium
[Circle]	36-5	tridecyl-omega-hydroxy-, branched	[Circle]	81-5	compounds,
					bis(hydroxyethyl)methyltallow
Green	127036	Poly(oxy-1,2-ethanediyl), alpha-			alkyl, ethoxylated, methyl sulfates
[Circle]	-24-2	undecyl-omega-hydroxy-, branched			(salts)
		and linear	Green	61791-	Quaternary ammonium
			[Circle]	10-4	compounds, coco
Green	9005-	Polyethylene glycol distearate			alkylbis(hydroxyethyl)methyl,
[Circle]	08-7				ethoxylated, chlorides
Green	4016-	Sodium 1-methoxy-1-	Green	1338-	Sorbitan monostearate
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[Circle]	24-4	oxohexadecane-2-sulphonate	[Circle]	41-6	
			Green	144399	Sorbitan oleate decylglucoside
Green	5324-	Sodium 1-octanesulfonate	[Circle]	4-56-6	crosspolymer
[Circle]	84-5				
Green	1984-	Sodium caprylate	Green	8007-	Sorbitan sesquioleate
[Circle]	06-1		[Circle]	43-0	
Green	68187-	Sodium cocoyl glutamate	Green	9005-	Sorbitan, monododecanoate,
[Circle]	32-6		[Circle]	64-5	poly(oxy-1,2-ethanediyl) derivs.
Green	28348-	Sodium cumene sulfonate			
[Circle]	53-0				
Green	9004-	Sodium dodecylpoly(oxyethylene)	Green	9005-	Sorbitan, monooctadecanoate,
[Circle]	82-4	sulfate	[Circle]	67-8	poly(oxy-1,2-ethanediyl) derivs.
Green	14960-	Sodium laurimino dipropionate			
[Circle]	06-6		Half Green	9005-	Sorbitan, trioctadecanoate,
Green	29923-	Sodium lauroyl glutamate	[Circle]	71-4	poly(oxy-1,2-ethanediyl) derivs.
[Circle]	31-7				
Green	13557-	Sodium lauroyl lactylate	Green	68308-	Soybean oil fatty acids
[Circle]	75-0		[Circle]	53-2	
Green	25155-	Sodium lauryl benzene sulfonate	Green	61790-	Soybean oil, sulfated, sodium salt
[Circle]	30-0		[Circle]	16-7	
Green	151-	Sodium lauryl sulfate	Green	57-11-	Stearic acid
[Circle]	21-3		[Circle]	4	
Green	13150-	Sodium lauryl trioxyethylene	Green	68037-	Sulfonic acids, C10-18-alkane,
[Circle]	00-0	sulfate	[Circle]	49-0	sodium salts
Green	822-	Sodium linoleate	Green	68439-	Sulfonic acids. C14-16-alkane
[Circle]	17-3		[Circle]	57-6	hydroxy and C14-16-alkene.
Green	822-	Sodium myristate	[]		sodium salts
[Circle]	12-8		Green	68608-	Sulfonic acids netroleum sodium
Green	30364-	Sodium myristol sarcosinate	[Circle]	26-4	salts
[Circle]	51-3		Green	68081-	Sulfuric acid mono-C10-16-alkyl
Green	142-	Sodium octvl sulfate	[Circle]	96-9	esters ammonium salts
[Circle]	31-4		[0100]	505	
Green	408-	Sodium palmitate	Green	68585-	Sulfuric acid mono-C10-16-alkyl
[Circle]	35-5		[Circle]	47-7	esters sodium salts
Green	25446-	Sodium polyoyyethylene tridecyl	Green	85586-	Sulfuric acid mono-C12-14 alkyl
	23440° 78-0	sulfate		07-8	esters sodium salts
Green	222-	Sodium stearate	Green	68055-	Sulfuric acid mono-C12-18-alkyl
[Circle]	16-2	Solidin stearate		19_1	esters sodium salts
Croon	26240	Sodium tridoculhonzono culfonato	Croon	19-1 600EE	Sulfuric acid mana C16 19 alled
Green [Circlo]	20240-	Sourdin threeybenzene sunonate	[Circlo]	20 1	ostors sodium salts
Croop	24-0	Codium under ulberrane sulferete	Croon	20-4	Sulfuria acid manadagul actor
Green	27030- 75 5	Sodium undecybenzene sunonate	Green	142- 07 0	sodium calt (1:1)
Crear	1200	Codium vulence sulferente	[Circle]	67-0	Source sit astassium ast
Green	1300-	Sodium xylene suitonate	Green	20.2	Sumower on, potassium sait
Circlej	12-1	Carde item and a second a		59-2	Tatus da seu sia a sid
Green	1338-	Sorbitan monolaurate	Green	544-	Tetradecanoic acid
[Circle]	39-2	Carleitan mana al		03-8 00202	Undered Diel 11
Green	1338-	Sorbitan monooleate	Green	98283-	unaecyi-D-glucosiae
[Circle]	43-8		[Lircle]	6/-1	
Green	26266-	Sorbitan monopalmitate	Uncategoriz	ed	
[Circle]	57-9		Green	85507-	Aloe barbadensis extract
			[Circle]	69-3	

Green	94349-	Aloe barbadensis mill., extract
[Circle]	62-9	
Green	8001-	Aloe, pharmaceutical
[Circle]	97-6	
Green	134134	Avena sativa kernel flour
[Circle]	-86-4	
Green	8012-	Beeswax
[Circle]	89-3	
Green	8015-	Carnauba wax
[Circle]	86-9	
Green	68442-	Cellulose, regenerated
[Circle]	85-3	
Green	7585-	Cyclodextrin
[Circle]	39-9	
Yellow	3734-	Denatonium benzoate
[Triangle]	33-6	
Green	624-	Ethylene glycol dipalmitate
[Circle]	03-3	
Green	68410-	Gelatins, hydrolyzates
[Circle]	45-7	
Green	9034-	Hemicellulose
[Circle]	32-6	
Half Green	111-	Heptanoic acid
[Circle]	14-8	
Green	128446	Hydroxypropyl-a-cyclodextrin
[Circle]	-33-3	
Green	9005-	Lignin
[Circle]	53-2	
Green	7727-	Nitrogen
[Circle]	37-9	
Half Green	112-	Nonanoic acid
[Circle]	05-0	
Green	64742-	Paraffin waxes, petroleum, clay-
[Circle]	43-4	treated
Green	64742-	Paraffin waxes, petroleum,
[Circle]	51-4	hydrotreated
Green	65996-	Pulp, cellulose
[Circle]	61-4	
Green	77098-	Soy protein isolate, sodium salt
[Circle]	13-6	
Green	57-13-	Urea
[Circle]	6	
Green	506-	Urea, monohydrochloride
[Circle]	89-8	
Yellow	13040-	Zinc ricinoleate
[Triangle]	19-2	