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October 26, 2015

Ms. Michelle Arsenault
National Organic Standards Board
USDA-AMS-NOP
1400 Independence Ave. SW.,
Room 2648-S, Mail Stop 0268
Washington, DC 20250-0268

Re. CS: “Inerts” in Organic Production Must be Reviewed by the NOSB

These comments to the National Organic Standards Board (NOSB) on its fall 2015 agenda are submitted on behalf of Beyond Pesticides. Founded in 1981 as a national, grassroots, membership organization that represents community-based organizations and a range of people seeking to bridge the interests of consumers, farmers and farmworkers, Beyond Pesticides advances improved protections from pesticides and alternative pest management strategies that reduce or eliminate a reliance on pesticides. Our membership and network span the 50 states and the world.

So-called “inert ingredients” must be evaluated by the National Organic Standards Board (NOSB) for inclusion on the National List. The proposal by the Crops and Livestock Subcommittees to abdicate responsibility for the review of these chemicals is unacceptable to organic consumers, contrary to the Organic Foods Production Act (OFPA), and inconsistent with past actions of the NOSB. In these comments, we look more closely at EPA Lists 4A, 4B, and Safer Chemical Ingredient List.

“Inerts” are not inert. They are ingredients in pesticide formulations for which no pesticidal claims are made. Many are toxic. Some are even active ingredients in other pesticide formulations. “Inerts” often make up more than 90% of a product.

Active ingredients in pesticide products have been carefully screened to ensure that they meet the requirements of OFPA. Because of the thorough investigation by the NOSB and the additional scrutiny given by the public in written and oral comments, for the most part, the active ingredients that are allowed in organic agriculture present little hazard to people and ecosystems, from their manufacture through their use and disposal.

So-called “inert” ingredients, on the other hand, do not receive, as intended and recommended by previous NOSB action, the same level of scrutiny as actives, to ensure that they meet OFPA standards. Many pesticide product formulations are composed mostly of “inert” ingredients. As a result, the most hazardous part of pesticide products used in organic production may actually be the so-called “inert” ingredients.

Avoiding comprehensive review of inerts review may have a significant negative effect on public perception of the organic label and its ability to provide non-toxic alternatives in food and agriculture systems.

Historical Background

List 4 does not address OFPA criteria.

The list system was devised by the U.S. Environmental Protection Agency (EPA) in 1987 as a temporary way of responding to a need to evaluate the toxicity of “inerts.” The policy established four categories of toxicological concern for the inert ingredients in existence at that time:

- **List 1: 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.
- **List 2: Potentially Toxic Other Ingredients/High Priority for Testing.** Many List 2 inert ingredients are structurally similar to chemicals known to be toxic; some have data suggesting a concern.
- **List 3: Inerts of unknown toxicity.** An inert ingredient was placed on List 3 if there was no basis for listing it on any of the other lists.
- **List 4: Minimal risk inert ingredients.** The determination that a chemical is minimal risk would be based on a recognition of the overall safety of the chemical (such as very low toxicity or practically non-toxic) considering the widely available information on the chemical's known properties, and a history of safe use under reasonable circumstances.

In 1989, List 4 "Inerts of Minimal Concern" was subdivided into List 4A and List 4B.¹

- **Minimal risk (List 4A)** substances are recognized as safe for use in all pesticide products subject only to good agricultural or good manufacturing practices since the Agency does not establish any restrictions on use patterns (how, where, when or in what manner the substance can be used) or limit the amount of a List 4A chemical substance that can be used as an inert ingredient in a pesticide product.
- **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.** In making a List 4B determination, the Agency evaluates not only the toxicity of the chemical substance, but also considers the particular exposures that could occur and the need for any restrictions.
- The two critical distinctions between List 4A minimal risk substances and List 4B substances, are that while the Agency does not establish a use pattern or use limitation for a List 4A chemical substance, a List 4B may have such restrictions. Also, List 4 chemicals that are chemicals of higher acute toxicity are generally classified as List 4B,

¹ Language taken verbatim from EPA website. <http://www.epa.gov/opprd001/inerts/oldlists.html>.

so that the Agency can evaluate the labeling and require the use of protective equipment. The substances on List 4B have no relevance to the provisions in FIFRA 25(b) for deregulated or exempted products.

The authors of OFPA intended for individual “inerts” to be reviewed.

OFPA says:

§6518(l) REQUIREMENTS. In establishing the proposed National List or proposed amendments to the National List, the Board shall-
... (2) 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.

The Senate Report² said,

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.

“Inert ingredient” is code for “secret ingredient.” So-called “inerts” do not need to be disclosed on the label, but a 1996 lawsuit by Beyond Pesticides (then the National Coalition Against the Misuse of Pesticides) and the Northwest Center for Alternatives to Pesticides (then the Northwest Coalition for Alternatives to Pesticides) required EPA to release identity of “inerts” requested by the organizations under FOIA.

The NOSB has repeatedly, since 1995, voted to review individual “inert” ingredients.

In 1995 two motions were passed by the NOSB:

- The NOSB will make every effort to review synthetic inert ingredients for their appropriateness in organic production systems. The NOSB will work with manufacturers of inert substances to obtain full disclosure. The process will take place after the proposed national list and its subsequent Federal Register publication. (Passed 10-4.)
- Inerts on the EPA List 4 are generally considered to be recognized as safe and will be accepted for organic production, unless 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

² Report of the Committee on Agriculture, Nutrition, and Forestry, United States Senate to Accompany S. 2830. July 6, 1990. P. 249.

forwarded to the EPA as materials for fast-track review and possible reclassification.
(Passed as “a resolution.”)

List 4 has not been maintained since 2004. In 2006 the EPA completed reassessments of inert ingredients used in pesticide products to ensure that they meet standards under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), and EPA officially notified the NOP that the Inerts List referenced in the NOP regulations is now considered obsolete and no longer in effect.

In Spring 2010, the NOSB passed a recommendation saying:

“The NOSB needs to review all inert ingredient components used in current NOP compliant pesticide formulations for consideration for inclusion on the National List of Allowed Materials on 205.601.” “The NOSB requests that the NOP create and enter into a Memorandum Of Understanding (MOU) with the EPA to assist in the evaluation of the materials previously known as both EPA List 4, inerts of minimal concern and EPA List 3, inerts of unknown toxicity allowed. This MOU should serve as the platform for an implementation strategy that may include an official task force or some other structure to achieve the following objectives.” [Following: plan of action.] Passed 13 yes, 1 no.

And in Fall 2010:

“Following the recommendation of the Board at the Spring 2010 meeting regarding these materials, it is recommended that we relist EPA List 4 inerts pending review by the program of inerts individually and as a class of materials. To allow these materials to sunset at this point would be too disruptive to the industry.”

In Fall 2012, the NOSB unanimously passed a recommendation calling for a change in the listing for List 4 “inerts”:

Replace the language at sections 205.601(m) and 205.603(e) with:

As synthetic other (“inert”) ingredients in pesticide formulations as classified by the Environmental Protection Agency (EPA) for use with nonsynthetic substances or synthetic substances listed in this section that are used as an active pesticide ingredient in accordance with any limitations on the use of such substances.

(i) Substances permitted for use in minimal risk products exempt from pesticide registration under FIFRA section 25(b);

(ii) Reserved (for list of approved other (“inert”) ingredients)

Although the NOP has still not published a request to formulators to help identify the “inerts” in products used in organic production, the Inerts Working Group (IWG) learned, with the help of OMRI and the Washington State Department of Agriculture, of the identity of 126 synthetic “inerts” used in organic production.

Lists 4A and 4B

OFPA §6517(c)(1)(B)-(C) says:

The National List may provide for the use of substances in an organic farming or handling operation that are otherwise prohibited under this chapter only if—

(B) the substance—

(i) is used in production and contains an active synthetic ingredient in the following categories: copper and sulfur compounds; toxins derived from bacteria; pheromones, soaps, horticultural oils, fish emulsions, treated seed, vitamins and minerals; livestock parasiticides and medicines and production aids including netting, tree wraps and seals, insect traps, sticky barriers, row covers, and equipment cleansers; or

ii) is used in production and contains synthetic inert ingredients that are not classified by the Administrator of the Environmental Protection Agency as inerts of toxicological concern; and

(C) the specific exemption is developed using the procedures described in subsection (d).

Subsection (B)(ii) of the above excerpt establishes eligibility to list “inerts” that are not of toxicological concern, but does not say that all such substances must be listed—and is analogous to Subsection (B)(i), which lists categories of active synthetic materials that are eligible for listing. Subsection (C) says that the substances, both “inert” and “active,” may be added to the National List only after a process that includes a recommendation from the NOSB and public notice and comment. The process is further described in §6518 (l) and (m).

“Inerts of toxicological concern” were previously (improperly) defined as those inerts on the former EPA Lists 1, 2, and 3. EPA List 4B as well as List 4A inerts were included on the National List. Thus, the NOSB and NOP have been allowing chemicals known to be toxic, but judged to be low-risk by EPA’s pesticide program because of low exposure. This is insupportable because OFPA criteria are broader—including, for example, hazards to the soil and hazards of manufacture and disposal. EPA has not updated the lists of “inerts” since 2004, although tolerances have been revoked for ten chemicals on List 4.

The listing for List 4 “inerts” allows 253 materials on the former List 4A, plus 630 on the former List 4B to be used in organic production, minus the 10 with revoked tolerances, gives a total of 873 substances. Although many of these are nonsynthetic—the exact number might be determined by NOSB or MRO review, but we estimate 21%—there are still many synthetic substances that have been allowed for use as “inert” ingredients without NOSB review against OFPA criteria. For anyone concerned about appearances, the list of 873 is much scarier than the list of 126 known to be used in organic production, which was presented to the public by the Crops Subcommittee in 2012.

Safer Chemical Ingredient List (SCIL)

EPA’s Design for the Environment (DfE) program, recently renamed as Safer Choice Program (SCP), has criteria for listing chemicals on its Safer Chemical Ingredients List (SCIL) that overlap with, but are not the same as, OFPA criteria. However, EPA has stated in the past that it may be able through SCP, to evaluate to OFPA criteria.

There are differences between asking EPA to evaluate to OFPA criteria and accepting an inert because it is listed on the SCIL:

- Evaluating to OFPA criteria would be part of a transparent OFPA review system, the same that is used for other materials, with the SCP review taking the place of a technical review.
- Accepting materials on the SCIL would not publicly reveal the secret ingredients used in organic production.
- Accepting materials on the SCIL would not guarantee that the materials meet all OFPA criteria.

The SCIL contains 725 chemicals, some of which are listed in more than one of the 14 categories:

- | | |
|------------------------------------|------------------------------------|
| • Antimicrobial Actives | • Chelating Agents |
| • Colorants | • Defoamers |
| • Enzymes and Enzyme Stabilizers | • Fragrances |
| • Oxidants and Oxidant Stabilizers | • Polymers |
| • Preservatives and Antioxidants | • Processing Aids and Additives |
| • Solvents | • Specialized Industrial Chemicals |
| • Surfactants | • Uncategorized |

The chemicals on the SCIL are mostly –about 92%-- synthetic. Since it is known that 126 “inerts” are currently used in organic production, the CS/LS proposed annotation that would rely on the SCIL for “inerts” would allow at least 599 more chemicals than those currently used. These have not been, and would not be under the proposal, reviewed by the NOSB to be used as “inerts” in organic production.³ Since the CS, through the IWG, knows the identity of the 126 “inerts” currently used in organic production, it should provide a list of the new chemicals that will be allowed. The CS has not revealed how many of the 126 “inerts” now used in organic production are on the SCIL. Under the subcommittee proposal, any others would need to be petitioned under the CS/LS proposal. The identities of the 126 “inerts” known to be used in organic production should be made public as part of this discussion. This information is not protected as proprietary or secret, since the identity of “inerts” is not connected with particular products.

Before proceeding with a recommendation to use the SCIL as the sole criterion for allowing “inerts” in organic production, the NOSB must address the following issues, which raise compliance issues with OFPA. Until the Board addresses these issues fully, it is inappropriate to adopt the recommendation of the Crops Subcommittee:

- The SCIL does not require the public notice and comment that is required to put something on the National List.⁴




³ As of this writing, the last update to the list was September 22, 2015.

⁴ <http://www2.epa.gov/saferchoice/how-list-chemical-safer-chemical-ingredients-list>.


- There is not a process proposed for delisting from the SCIL. The public process under OFPA procedures provide producers and producers of products used in organic production with notification of pending NOSB and NOP action, but the CS proposal does not address delisting. How much time would formulators have to reformulate in the case of delisting?
- The SCIL process, with its lack of the orderly process provided by regulation, may disrupt markets for products used in organic production.
- The subcommittees have not shared the list of List 4 chemicals that are on the SCIL.
- New “inert” ingredients must be reviewed against OFPA criteria, as has always been recommended by the NOSB. The standards must be compatible with required administrative procedures, and the NOSB must determine whether the application of different standards to current and future listing decisions meets that requirement.

Thus, in many respects, the CS/LS proposal is worse than the status quo. The status quo depends on a static list, but the dynamic SCIL is growing, adding more and more synthetic chemicals that would be candidates for use in organic production. The 599 more that would be allowed by this proposal are mostly (92%) synthetic, compared to the large number of nonsynthetics in the current Lists 4A and 4B –altogether we estimate 21% are nonsynthetic (4A is 41%; 4B is 13% nonsynthetic). Again, for anyone concerned about appearances, the list of 725 mostly synthetic chemicals that could be used under this proposal is much scarier than the list of 126 known to be used in organic production. And the list is growing, at a rate and in a way that is not under the control of the NOSB or NOP.

It is also important to remember in referring to the Safer Chemical Ingredients List that the SCIL has four categories. If the NOSB recommends listing as an “inert” anything on the SCIL, it is recommending substances that may be categorized as *any one* of the following:⁵

- 1  **Green circle** - The chemical has been verified to be of low concern based on experimental and modeled data.
- 2  **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.
- 3  **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. (See [Safer Choice Criteria](#)). 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.

⁵ Quoted from EPA at <http://www2.epa.gov/saferchoice/safer-ingredients>.

4  **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, this recommendation would approve of chemicals as “inerts” if they are only “expected” to be of low concern, if they present hazards to humans and the environment, or if they will not be acceptable for use in Safer Choice products. The universe of substances that would be available for use as “inerts” in organic production without review by the NOSB according to OFPA criteria includes 493 (64.5%) rating a green circle, 66 (8.6%) with a green half-circle, 201 (26.3%) with a yellow triangle, and 4 (0.5%) with a grey square. Given the definitions above, more than a quarter could be expected **not** to meet OFPA criteria based on the SCIL ratings alone. In view of this fact, listing on the SCIL cannot be used as an indicator of how well a substance meets OFPA criteria.

Conclusion

The NOSB must reject the annotation proposed by the CS and LS, and begin review in accordance with the NOSB recommendation of fall 2012.

Thank you for your consideration of these comments.

Sincerely,



Terry Shistar, Ph.D.
Board of Directors

Attachment: EPA's Safer Chemical Ingredient List

EPA's Safer Chemical Ingredient List

































Antimicrobial Actives

| Common Name | CAS Registry Number |
|--------------------------|---------------------------|
| ● Citric acid, anhydrous | 77-92-9 |
| ● Ethanol | 64-17-5 |
| ● Hydrogen peroxide | 7722-84-1 |
| ● Isopropanol | 67-63-0 |
| ● L-Lactic acid | 79-33-4 |
| ● Peracetic acid | 79-21-0 |

Chelating Agents

| Common Name | CAS Registry Number |
|--|-----------------------------|
| ● 2-Butenedioic acid (2Z)-, ammonium salt (1:?), homopolymer, hydrolyzed, sodium salts | 181828-06-8 |
| ● Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3) | 164462-16-2 |
| ● Aspartic acid, N-(1,2-dicarboxyethyl)-, tetrasodium salt | 144538-83-0 |
| ● Citric acid, anhydrous | 77-92-9 |
| ● D-Gluconic acid | 526-95-4 |
| ● D-glycero-D-gulo-Heptonic acid, calcium salt (2:1) | 17140-60-2 |
| ● D-glycero-D-gulo-Heptonic acid, monosodium salt | 13007-85-7 |
| ● Dipotassium hydrogen citrate | 3609-96-9 |
| ● L-Lactic acid | 79-33-4 |
| ● Monosodium D-glucoheptonate | 31138-65-5 |
| ● N,N'-Ethylenediamine disuccinic acid | 20846-91-7 |
| ● Potassium citrate, anhydrous | 866-84-2 |
| ● Potassium citrate, monohydrate | 6100-05-6 |
| ● Sodium citrate, anhydrous | 68-04-2 |
| ● Sodium citrate, dihydrate | 6132-04-3 |
| ● Sodium ethylene diamine disuccinate | 178949-82-1 |
| ● Sodium gluconate | 527-07-1 |
| ● Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate | 51981-21-6 |

Colorants

| Common Name | CAS Registry Number |
|---|----------------------------|
|  2-Anthracenesulfonic acid, 1-amino-9,10-dihydro-4-[(4-methoxyphenyl)amino]-9,10-dioxo-, sodium salt (1:1) | 63589-10-6 |
|  C.I. 75810 | 11006-34-1 |
|  C.I. Acid Blue 145 | 6408-80-6 |
|  C.I. Acid Blue 25 | 6408-78-2 |
|  C.I. Acid Blue 40 | 6424-85-7 |
|  C.I. Acid Blue 80 | 4474-24-2 |
|  C.I. Acid Blue 93 | 28983-56-4 |
|  C.I. Acid Brown 14, disodium salt | 5850-16-8 |
|  C.I. Acid Green 1 | 19381-50-1 |
|  C.I. Acid Orange 24, monosodium salt | 1320-07-6 |
|  C.I. Acid Red 14 | 3567-69-9 |
|  C.I. Acid Red 289 | 12220-28-9 |
|  C.I. Acid Red 52 | 3520-42-1 |
|  C.I. Acid Violet 34 | 6408-63-5 |
|  C.I. Acid Violet 43 | 4430-18-6 |
|  C.I. Acid Violet 48 | 72243-90-4 |
|  C.I. Acid Violet 54 | 70210-05-8 |
|  C.I. Acid Yellow 17 | 6359-98-4 |
|  C.I. Direct Blue 86 | 1330-38-7 |
|  C.I. Direct Orange 26 | 3626-36-6 |
|  C.I. Fluorescent Brightener 220 | 16470-24-9 |
|  C.I. Fluorescent Brightener 28, sodium salt | 4193-55-9 |
|  C.I. Fluorescent Brightening Agent 28 | 4404-43-7 |
|  C.I. Food Red 1 | 4548-53-2 |
|  C.I. Natural Brown 10 | 8028-89-5 |
|  C.I. Pigment Blue 15 | 147-14-8 |
|  C.I. Pigment Green 7 | 1328-53-6 |
|  C.I. Solvent Green 7 | 6358-69-6 |
|  C.I. Direct Blue 199 | 63950-02-7 |
|  Copper phthalocyanine, sulfamoyl sulfo derivs., sodium salts | 90295-11-7 |
|  D&C Green No. 5 | 4403-90-1 |
|  D&C Red No. 33 | 3567-66-6 |

| Common Name | CAS Registry Number |
|-----------------------------------|----------------------------|
| ● FD&C Blue No.1 | 3844-45-9 |
| ● FD&C Blue No.1, PEG Derivative | 9079-33-8 |
| ▲ FD&C Green No. 3 | 2353-45-9 |
| ● FD&C Red 40 | 25956-17-6 |
| ● FD&C Yellow No. 5 | 1934-21-0 |
| ▲ FD&C Yellow No. 6 | 2783-94-0 |
| ▲ FD&C Yellow No. 6-aluminum lake | 15790-07-5 |
| ● Fluorescent Brightener 230 | 27344-06-5 |
| ● FWA-1 | 16090-02-1 |
| ● Titanium (IV) oxide | 13463-67-7 |

Defoamers

| Common Name | CAS Registry Number |
|--|----------------------------|
| ● 2-Methyloctanoic acid | 3004-93-1 |
| ● Alcohols, C10-12, ethoxylated propoxylated | 68154-97-2 |
| ● Bentonite | 1302-78-9 |
| ● Dimethyl silicone polymer with silica | 67762-90-7 |
| ● Poloxalene | 9003-11-6 |
| ● Polydimethylsiloxane, hydroxy-terminated | 70131-67-8 |
| ▲ Polydimethylsiloxanes (*Yellow based on some concern for aquatic toxicity. Allowed to provide functionality.) | 63148-62-9 |
| ● Polyethylene glycol stearate | 9004-99-3 |
| ▲ Polynoxylin | 9011-05-6 |
| ● Propylene oxide ethylene oxide polymer, ether with glycerol (3:1) | 9082-00-2 |
| ▲ Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated propoxylated (*Yellow based on some concern for aquatic toxicity. Allowed to provide functionality.) | 68937-55-3 |
| ● Siloxanes and Silicones, di-methyl, hydroxy-terminated, reaction products with chlorotrimethylsilane, hydrochloric acid, iso-Pr alc. and sodium silicate | 68440-70-0 |

Enzymes and Enzyme Stabilizers

| Common Name | CAS Registry Number |
|-------------------|-------------------------|
| ● 1,2-Propanediol | 57-55-6 |

| Common Name | CAS Registry Number |
|--|----------------------------|
| ▲ Alpha-amylase | 9000-90-2 |
| ▲ Amylase | 9000-92-4 |
| ▲ Amylase bacterial | 9000-85-5 |
| ▲ Borax (*Only allowed as a protease stabilizer.) | 1303-96-4 |
| ▲ Boron sodium oxide (*Only allowed as a protease stabilizer.) | 1330-43-4 |
| ● Calcium chloride, anhydrous | 10043-52-4 |
| ● Calcium chloride, dihydrate | 10035-04-8 |
| ● Calcium formate | 544-17-2 |
| ▲ Cellulase | 9012-54-8 |
| ● DL-Methionine | 59-51-8 |
| ▲ Hydratase, phosphoenolpyruvate | 9014-08-8 |
| ▲ Mannanase, endo-1,4-beta- | 37288-54-3 |
| ▲ Orthoboric acid (*Only allowed as a protease stabilizer.) | 10043-35-3 |
| ▲ Polygalacturonase | 9032-75-1 |
| ▲ Proteinase | 9001-92-7 |
| ▲ Rizolipase | 9001-62-1 |
| ● Sodium formate | 141-53-7 |
| ▲ Subtilisins | 9014-01-1 |

Fragrances

| Common Name | CAS Registry Number |
|---|----------------------------|
| ▲ Verdylyl acetate (*Lacks sufficient sensitization data, see above.) | 5413-60-5 |
| ▲ Verdox (*Lacks sufficient sensitization data; repeat dose toxicant. See above.) | 88-41-5 |
| ▲ Vanillyl acetone (*Lacks sufficient sensitization data, see above.) | 122-48-5 |
| ● Vanillin | 121-33-5 |
| ▲ Undecanal, 2-methyl- (*Known sensitizer, see above.) | 110-41-8 |
| ▲ Undecanal (*Known sensitizer, see above.) | 112-44-7 |
| ▲ Triethyl citrate (*Known sensitizer, see above.) | 77-93-0 |
| ▲ Tricyclodecanyl propionate (*Lacks sufficient sensitization data, see above.) | 17511-60-3 |
| ▲ trans-3-Hexenol (*Lacks sufficient sensitization data, see above.) | 928-97-2 |
| ▲ Tetrahydrolinalool (*Known sensitizer, see above.) | 78-69-3 |
| ● Terpinyl acetate | 80-26-2 |

| Common Name | CAS Registry Number |
|---|-----------------------------|
| ▲ Terpinolene (*Known sensitizer, see above.) | 586-62-9 |
| ● Terpineol acetate | 8007-35-0 |
| ● Terpineol (mixed isomers) | 8000-41-7 |
| ▲ Sweet orange oil (*Known sensitizer, see above.) | 8008-57-9 |
| ▲ Scentenal (*Known sensitizer, see above.) | 86803-90-9 |
| ● Sandalore | 65113-99-7 |
| ▲ Propanoic acid, 2-methyl-, 3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl ester (*Lacks sufficient sensitization data, see above.) | 68039-39-4 |
| ▲ Propanoic acid, 2-methyl-, 3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-5-yl ester (*Lacks sufficient sensitization data, see above.) | 67634-20-2 |
| ▲ para-Ethyl-alpha,alpha-dimethyl-hydrocinnamaldehyde (*Lacks sufficient sensitization data; repeat dose toxicant. See above.) | 67634-14-4 |
| ▲ Oxirane, 2,2-dimethyl-3-(3-methyl-2,4-pentadien-1-yl)- (*Lacks sufficient sensitization data, see above.) | 69103-20-4 |
| ● Oxacyclohexadecan-2-one | 106-02-5 |
| ▲ Oxacyclohexadec-13-en-2-one, (13Z)- (*Known sensitizer, see above.) | 111879-81-3 |
| ▲ Oxacyclohexadec-13-en-2-one, (13E)- (*Known sensitizer, see above.) | 99219-32-6 |
| ▲ Oxacyclohexadec-12-en-2-one, (12Z)- (*Known sensitizer, see above.) | 111879-79-9 |
| ▲ Oxacyclohexadec-12-en-2-one, (12E)- (*Known sensitizer, see above.) | 111879-80-2 |
| ● Oxacycloheptadecan-2-one | 109-29-5 |
| ▲ Octyl acetate (*Lacks sufficient sensitization data, see above.) | 112-14-1 |
| ▲ Octanal (*Known sensitizer, see above.) | 124-13-0 |
| ▲ Nonanal (*Known sensitizer, see above.) | 124-19-6 |
| ▲ Naphthalene, 2-methoxy- (*Lacks sufficient sensitization data, see above.) | 93-04-9 |
| ▲ Naphthalene, 2-ethoxy- (*Lacks sufficient sensitization data, see above.) | 93-18-5 |
| ● Myrcenol | 543-39-5 |
| ● Muskonate | 54982-83-1 |
| ▲ Methylionone (*Known sensitizer; repeat dose toxicant. See above.) | 1335-46-2 |
| ▲ Methyl undecylenate (*Repeat dose toxicant, see above.) | 111-81-9 |
| ● Methyl dihydrojasmonate | 24851-98-7 |
| ▲ Methyl delta ionone (*Known sensitizer; repeat dose toxicant. See above.) | 79-89-0 |
| ▲ Methyl benzoate (*Lacks sufficient sensitization data, see above.) | 93-58-3 |
| ▲ Methyl 2-nonynoate (*Known sensitizer, see above.) | 111-80-8 |

| Common Name | CAS Registry Number |
|---|-----------------------------|
| ▲ Methyl 2-nonenolate (*Lacks sufficient sensitization data, see above.) | 111-79-5 |
| ▲ Menthol, racemic (*Known sensitizer, see above.) | 89-78-1 |
| ▲ Menthol (unspecified isomer) (*Known sensitizer, see above.) | 1490-04-6 |
| ▲ Melonal (*Known sensitizer; repeat dose toxicant. See above.) | 106-72-9 |
| ▲ Linalyl acetate (*Known sensitizer, see above.) | 115-95-7 |
| ▲ Linalool (*Known sensitizer, see above.) | 78-70-6 |
| ▲ Ligustral (*Known sensitizer; repeat dose toxicant. See above.) | 68039-49-6 |
| ▲ L-Menthol (*Known sensitizer, see above.) | 2216-51-5 |
| ▲ l-Carvone (*Known sensitizer; repeat dose toxicant. See above.) | 6485-40-1 |
| ▲ Jasmone (*Lacks sufficient sensitization data, see above.) | 488-10-8 |
| ● Jasmin pyranol | 38285-49-3 |
| ● Jasmal | 18871-14-2 |
| ▲ Isopulegol (*Repeat dose toxicant, see above.) | 89-79-2 |
| ▲ Isopropylphenylbutanal (*Lacks sufficient sensitization data; repeat dose toxicant. See above.) | 125109-85-5 |
| ▲ Isocyclocitral (*Known sensitizer; repeat dose toxicant. See above.) | 1335-66-6 |
| ▲ Isobutyl salicylate (*Known sensitizer, see above.) | 87-19-4 |
| ● Isobutyl acetate | 110-19-0 |
| ▲ Isoamyl salicylate (*Known sensitizer; repeat dose toxicant. See above.) | 87-20-7 |
| ▲ Isoamyl butyrate (*Lacks sufficient sensitization data, see above.) | 106-27-4 |
| ● Isoamyl acetate | 123-92-2 |
| ▲ Ionone (*Known sensitizer; repeat dose toxicant. See above.) | 8013-90-9 |
| ▲ Indole (*Lacks sufficient sensitization data; repeat dose toxicant. See above.) | 120-72-9 |
| ▲ Hydroxycitronellal (*Known sensitizer; repeat dose toxicant. See above.) | 107-75-5 |
| ▲ Hexyl Salicylate (*Known sensitizer; repeat dose toxicant. See above.) | 6259-76-3 |
| ● Hexyl acetate | 142-92-7 |
| ● Hexanoic acid, ethyl ester | 123-66-0 |
| ▲ Hexanal (*Known sensitizer, see above.) | 66-25-1 |
| ● Helvetolide | 141773-73-1 |
| ● Glycerol triacetate | 102-76-1 |
| ● Gamma-undecalactone | 104-67-6 |
| ▲ gamma-Terpinene (*Lacks sufficient sensitization data, see above.) | 99-85-4 |
| ● gamma-Octalactone | 104-50-7 |
| ● gamma-Nonalactone | 104-61-0 |

| Common Name | CAS Registry Number |
|--|----------------------------|
| ● gamma-Hexalactone | 695-06-7 |
| ● gamma-Heptalactone | 105-21-5 |
| ● gamma-Decalactone | 706-14-9 |
| ● Florol | 63500-71-0 |
| ▲ Eucalyptol (*Lacks sufficient sensitization data, see above.) | 470-82-6 |
| ● Ethylene brassylate | 105-95-3 |
| ● Ethyl vanillin | 121-32-4 |
| ▲ Ethyl undecylenate (*Repeat dose toxicant, see above.) | 692-86-4 |
| ▲ Ethyl linalyl acetate (*Lacks sufficient sensitization data, see above.) | 61931-80-4 |
| ▲ Ethyl linalool (*Known sensitizer, see above.) | 10339-55-6 |
| ▲ Ethyl isovalerate (*Lacks sufficient sensitization data, see above.) | 108-64-5 |
| ● Ethyl ester 2-methylbutanoic acid | 7452-79-1 |
| ▲ Ethyl dimethylhydrocinnamaldehyde (*Lacks sufficient sensitization data; repeat dose toxicant. See above.) | 67634-15-5 |
| ▲ Ethyl butyrate (*Lacks sufficient sensitization data, see above.) | 105-54-4 |
| ▲ Dodecanal (*Known sensitizer, see above.) | 112-54-9 |
| ▲ Diphenyl oxide (*Lacks sufficient sensitization data, see above.) | 101-84-8 |
| ▲ Dipentene (*Known sensitizer, see above.) | 138-86-3 |
| ▲ Dimethylallyl acetate (*Lacks sufficient sensitization data, see above.) | 1191-16-8 |
| ▲ Dimethyl tetrahydrobenzaldehyde (*Known sensitizer; repeat dose toxicant. See above.) | 68737-61-1 |
| ● Dimethyl malonate | 108-59-8 |
| ▲ Diisobutyl carbonyl acetate (*Lacks sufficient sensitization data; repeat dose toxicant. See above.) | 10250-45-0 |
| ● Dihydromyrcenol | 18479-58-8 |
| ● Dihydrocitronellol | 106-21-8 |
| ● Diethyl malonate | 105-53-3 |
| ▲ Dicyclopentadiene propionate (*Lacks sufficient sensitization data, see above.) | 68912-13-0 |
| ▲ delta-Dodecalactone (*Lacks sufficient sensitization data, see above.) | 713-95-1 |
| ▲ delta-Decalactone (*Lacks sufficient sensitization data, see above.) | 705-86-2 |
| ▲ delta-Damascone (*Known sensitizer; repeat dose toxicant. See above.) | 57378-68-4 |
| ▲ Decaldehyde (*Known sensitizer, see above.) | 112-31-2 |
| ▲ D-Menthol (*Known sensitizer, see above.) | 15356-60-2 |

| Common Name | CAS Registry Number |
|--|----------------------------|
| ▲ Cyclopentanone, 2-pentyl- (*Lacks sufficient sensitization data, see above.) | 4819-67-4 |
| ▲ Cyclohexanone, 2-(1-mercapto-1-methylethyl)-5-methyl- (*Known sensitizer, see above.) | 38462-22-5 |
| ▲ Cyclohexanopropanol, 2,2,6-trimethyl-.alpha.-propyl- (*Lacks sufficient sensitization data, see above.) | 70788-30-6 |
| ▲ Cyclohexanecarboxylic acid, 2,2-dimethyl-6-methylene-, methyl ester (*Lacks sufficient sensitization data, see above.) | 81752-87-6 |
| ▲ Cuminaldehyde (*Known sensitizer, see above.) | 122-03-2 |
| ▲ Citronellyl acetate (*Known sensitizer; repeat dose toxicant. See above.) | 150-84-5 |
| ▲ Citronelloxyacetaldehyde (*Known sensitizer; repeat dose toxicant. See above.) | 7492-67-3 |
| ▲ Citronellol (*Known sensitizer; repeat dose toxicant. See above.) | 106-22-9 |
| ▲ Citronellal (*Known sensitizer; repeat dose toxicant. See above.) | 106-23-0 |
| ▲ cis-3-hexenol (*Lacks sufficient sensitization data, see above.) | 928-96-1 |
| ▲ Carvone (*Known sensitizer; repeat dose toxicant. See above.) | 99-49-0 |
| ▲ Camphene (*Lacks sufficient sensitization data, see above.) | 79-92-5 |
| ▲ Calone (*Lacks sufficient sensitization data, see above.) | 28940-11-6 |
| ▲ Butanoic acid, 3-methyl-, 3-methylbutyl ester (*Lacks sufficient sensitization data, see above.) | 659-70-1 |
| ▲ beta-Ionone (*Known sensitizer; repeat dose toxicant. See above.) | 14901-07-6 |
| ▲ Benzylidimethyl carbinyl acetate (*Known sensitizer, see above.) | 151-05-3 |
| ▲ Benzyl salicylate (*Known sensitizer; repeat dose toxicant. See above.) | 118-58-1 |
| ▲ Benzenepentanol, gamma-methyl- (*Known sensitizer, see above.) | 55066-48-3 |
| ● Balinol | 28219-61-6 |
| ▲ Amyl salicylate (*Known sensitizer; repeat dose toxicant. See above.) | 2050-08-0 |
| ▲ Amyl acetate (*Known sensitizer, see above.) | 628-63-7 |
| ● alpha-Terpineol | 98-55-5 |
| ▲ alpha-Methyl ionone (*Known sensitizer; repeat dose toxicant. See above.) | 7779-30-8 |
| ▲ alpha-Isomethylionone (*Known sensitizer; repeat dose toxicant. See above.) | 127-51-5 |
| ▲ alpha-Ionone (*Known sensitizer; repeat dose toxicant. See above.) | 127-41-3 |
| ▲ 9-Decen-1-ol (*Lacks sufficient sensitization data; repeat dose toxicant. See above.) | 13019-22-2 |
| ● 7-Octen-2-ol, 2-methyl-6-methylene-, dihydro deriv. | 53219-21-9 |

| Common Name | CAS Registry Number |
|---|-----------------------------|
| ▲4-tert-Butylcyclohexanol (*Repeat dose toxicant, see above.) | 98-52-2 |
| ▲4-t-Butylcyclohexyl acetate (*Lacks sufficient sensitization data; repeat dose toxicant. See above.) | 32210-23-4 |
| ▲4,7-Methano-1H-indenol, 3a,4,5,6,7,7a-hexahydro-, acetate (*Lacks sufficient sensitization data, see above.) | 54830-99-8 |
| ▲3-Methyl-5-heptanone oxime (*Lacks sufficient sensitization data, see above.) | 22457-23-4 |
| ▲3-Hexenyl salicylate (*Known sensitizer; repeat dose toxicant. See above.) | 65405-77-8 |
| ▲3-Decen-5-ol, 4-methyl- (*Known sensitizer; repeat dose toxicant. See above.) | 81782-77-6 |
| ▲3-Cyclohexene-1-carboxaldehyde, 2,4,6-trimethyl- (*Known sensitizer; repeat dose toxicant. See above.) | 1423-46-7 |
| ●3-Cyclohexen-1-ol, 4-methyl-1-(1-methylethyl)- | 562-74-3 |
| ▲3-cis-Hexenyl methyl carbonate (*Lacks sufficient sensitization data, see above.) | 67633-96-9 |
| ▲2-tert-Butylcyclohexanol (*Lacks sufficient sensitization data; repeat dose toxicant. See above.) | 13491-79-7 |
| ▲2-Methylbutyl salicylate (*Known sensitizer; repeat dose toxicant. See above.) | 51115-63-0 |
| ▲2-Heptylcyclopentan-1-one (*Lacks sufficient sensitization data, see above.) | 137-03-1 |
| ▲2-Butanone, 4-(4-hydroxyphenyl)- (*Lacks sufficient sensitization data, see above.) | 5471-51-2 |
| ▲2-Acetylnaphthalene (*Lacks sufficient sensitization data, see above.) | 93-08-3 |
| ▲2,6-Dimethyl-2-heptanol (*Lacks sufficient sensitization data, see above.) | 13254-34-7 |
| ▲2(3H)-Naphthalenone, 4,4a,5,6,7,8-hexahydro-4,4a-dimethyl-6-(1-methylethenyl)-, (4R,4aS,6R)- (*Known sensitizer, see above.) | 4674-50-4 |
| ▲10-Undecenal (*Known sensitizer, see above.) | 112-45-8 |
| ●1-Undecanol | 112-42-5 |
| ▲1-Tetradecanol (*Repeat dose toxicant, see above.) | 112-72-1 |
| ▲1-Octanol (*Repeat dose toxicant, see above.) | 111-87-5 |
| ▲1-Nonanol (*Repeat dose toxicant, see above.) | 143-08-8 |
| ●1-Dodecanol | 112-53-8 |
| ▲1-Decanol (*Repeat dose toxicant, see above.) | 112-30-1 |
| ▲1,4-dimethoxybenzene (*Repeat dose toxicant, see above.) | 150-78-7 |
| ▲1,3-Undecadien-5-yne (*Lacks sufficient sensitization data, see above.) | 166432-52-6 |

| Common Name | CAS Registry Number |
|---|----------------------------|
| ▲ 1,2,3,4,4a,7,8,8a-Octahydro-2,4a,5,8a-tetramethyl-1-naphthyl formate (*Lacks sufficient sensitization data, see above.) | 65405-72-3 |
| ▲ (Z)- cis-3-Hexenyl acetate (*Lacks sufficient sensitization data, see above.) | 3681-71-8 |
| ▲ (d)-Limonene (*Known sensitizer, see above.) | 5989-27-5 |

Oxidants and Oxidant Stabilizers

| Common Name | CAS Registry Number |
|--|----------------------------|
| ▲ Aminotrimethylene phosphonic acid (*Only allowed as an oxidant stabilizer.) | 6419-19-8 |
| ▲ Diethylenetriaminepenta(methylenephosphonic acid), sodium salt (*Only allowed as an oxidant stabilizer.) | 22042-96-2 |
| ▲ Disodium tin hexahydrate (*Only allowed as an oxidant stabilizer) | 12027-70-2 |
| ● Hydrogen peroxide | 7722-84-1 |
| ▲ Phosphonic acid (*Only allowed as an oxidant stabilizer.) | 13598-36-2 |
| ▲ Phosphoric acid (*Only allowed as an oxidant stabilizer.) | 7664-38-2 |
| ▲ Phosphorous acid (*Only allowed as an oxidant stabilizer) | 10294-56-1 |
| ▲ Potassium stannate (*Only allowed as an oxidant stabilizer.) | 12142-33-5 |
| ▲ Sodium acid pyrophosphate (*Only allowed as an oxidant stabilizer) | 7758-16-9 |
| ▲ Sodium nitrate (*Only allowed as an oxidant and preservative stabilizer.) | 7631-99-4 |
| ● Sodium percarbonate | 15630-89-4 |
| ● Sodium peroxydisulfate | 7775-27-1 |
| ▲ Sodium stannate (*Only allowed as an oxidant stabilizer.) | 12058-66-1 |
| ▲ Sodium tripolyphosphate (*Only allowed as an oxidant stabilizer) | 7758-29-4 |
| ▲ Tetraacetyl ethylene diamine | 10543-57-4 |

Polymers

| Common Name | CAS Registry Number |
|---|----------------------------|
| ● 2,5-Furandione, polymer with 1-propene | 25722-45-6 |
| ● 2,5-Furandione, polymer with 2,4,4-trimethylpentene, sodium salt | 37199-81-8 |
| ● 2,5-Furandione, polymer with ethenylbenzene, ammonium salt | 26022-09-3 |
| ● 2,5-Furandione, telomer with ethenylbenzene and (1-methylethyl)benzene, sodium salt | 52500-92-2 |
| ● 2-Butenedioic acid (2Z)-, polymer with 2-propenoic acid | 29132-58-9 |

| Common Name | CAS Registry Number |
|--|-----------------------------|
| ● 2-Propenoic acid, 2-methyl-, butyl ester, polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate | 25322-99-0 |
| ● 2-Propenoic acid, 2-methyl-, butyl ester, polymer with methyl 2-methyl-2-propenoate | 25608-33-7 |
| ● 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with hexadecyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate and tetradecyl 2-methyl-2-propenoate | 65405-40-5 |
| ● 2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene and 2-propenoic acid | 25767-39-9 |
| ● 2-Propenoic acid, 2-methyl-, polymer with 2-propenoic acid, sodium salt | 28205-96-1 |
| ● 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene and methyl 2-methyl-2-propenoate | 25950-40-7 |
| ● 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate | 25035-82-9 |
| ● 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate and ethenylbenzene | 25036-16-2 |
| ● 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate | 25035-69-2 |
| ● 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, (1-methylethenyl)benzene and methyl 2-methyl-2-propenoate | 94031-39-7 |
| ● 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethene, ethenylbenzene, ethyl 2-propenoate and methyl 2-methyl-2-propenoate | 67892-91-5 |
| ● 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and methyl 2-methyl-2-propenoate | 25987-66-0 |
| ● 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and methyl 2-methyl-2-propenoate, calcium salt | 137899-00-4 |
| ● 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, ethyl 2-propenoate and methyl 2-methyl-2-propenoate | 63744-68-3 |
| ● 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate and 2-propenenitrile | 31392-42-4 |
| ● 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene | 9010-92-8 |
| ● 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene and methyl 2-methyl-2-propenoate | 25035-81-8 |
| ● 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene, ethyl 2-propenoate, methyl 2-methyl-2-propenoate and 1,2-propanediol mono(2-methyl-2-propenoate) | 65405-63-2 |
| ● 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate | 25212-88-8 |
| ● 2-Propenoic acid, 2-methyl-, polymer with methyl 2-methyl-2-propenoate | 25086-15-1 |

| Common Name | CAS Registry Number |
|--|------------------------------|
| ● 2-Propenoic acid, 2-methyl-, polymers with Et acrylate and polyethylene glycol methacrylate C16-18-alkyl ethers methacrylic acid polymer | 70879-60-6 |
| ● 2-Propenoic acid, homopolymer | 9003-01-4 |
| ● 2-Propenoic acid, homopolymer, sodium salt | 9003-04-7 |
| ● 2-Propenoic acid, polymer with 2,5-furandione, sodium salt | 52255-49-9 |
| ● 2-Propenoic acid, potassium salt (1:1), polymer with 2-propenamide | 31212-13-2 |
| ● 2-Propenoic acid, telomer with sodium hydrogen sulfite, sodium salt | 68479-09-4 |
| ● 2-Propenoic acid, telomer with sodium sulfite (1:1) | 66019-18-9 |
| ● Benzenesulfonic acid, hydroxy-, sodium salt (1:1), polymer with formaldehyde and 4,4'-sulfonylbis[phenol] | 71832-81-0 |
| ● Butanedioic acid, 2-methylene-, polymer with 2-propenoic acid, sodium salt | 26099-88-7 |
| ● 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 | 156042-41-0 |
| ● Ethene, homopolymer, oxidized | 68441-17-8 |
| ● Ethylene/acrylic acid copolymer | 9010-77-9 |
| ● Glycerol poly(oxyethylene) ether | 31694-55-0 |
| ● Octadecanoic acid, 12-hydroxy-, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyl) | 70142-34-6 |
| ● Polybutene | 9003-29-6 |
| ● Polyethylene glycol | 25322-68-3 |
| ● Polymaleic acid | 26099-09-2 |
| ● Polymethacrylic acid | 25087-26-7 |
| ● Polypropylene | 9003-07-0 |
| ● Polyvinylpyrrolidone | 9003-39-8 |
| ● Sodium ligninsulfonate | 8061-51-6 |
| ● Sodium polymethacrylate | 54193-36-1 |
| ● Sorbitan oleate decylglucoside crosspolymer | 1443994-56-6 |
| ● Vinyl acetate vinyl alcohol polymer | 25213-24-5 |

Preservatives and Antioxidants

| Common Name | CAS Registry Number |
|--------------------------------|---------------------------|
| ▲ 1,2-Benzisothiazol-3(2H)-one | 2634-33-5 |

| Common Name | CAS Registry Number |
|---|----------------------------|
| ● Benzoic acid | 65-85-0 |
| ● Benzoic acid, potassium salt | 582-25-2 |
| ● Benzoic acid, sodium Salt | 532-32-1 |
| ▲ Dehydroacetic acid | 520-45-6 |
| ● DL-alpha-Tocopherol | 10191-41-0 |
| ● DL-Lactic acid | 50-21-5 |
| ● L-Lactic acid | 79-33-4 |
| ▲ Magnesium (II) nitrate, hexahydrate (*Only allowed as a preservative stabilizer.) | 13446-18-9 |
| ▲ Magnesium nitrate (*Only allowed as a preservative stabilizer.) | 10377-60-3 |
| ▲ Methyl chloro isothiazolinone | 26172-55-4 |
| ▲ Methyl isothiazolinone | 2682-20-4 |
| ● Pentaerythritol, tetrakis(3,5-di-tert-butyl-4-hydroxyhydrocinnamate) | 6683-19-8 |
| ▲ Phenoxyethanol (*Yellow, due in part to its status as a Hazardous Air Pollutant HAP under the Clean Air Act.) | 122-99-6 |
| ● Potassium (E,E)-sorbate | 24634-61-5 |
| ● Potassium sorbate | 590-00-1 |
| ● Sodium citrate, anhydrous | 68-04-2 |
| ● Sodium citrate, dihydrate | 6132-04-3 |
| ▲ Sodium nitrate (*Only allowed as an oxidant and preservative stabilizer.) | 7631-99-4 |
| ● Sodium propionate | 137-40-6 |
| ● Sorbic acid | 110-44-1 |
| ● Tocopherol acetate | 7695-91-2 |
| ● Vitamin E acetate | 58-95-7 |

Processing Aids and Additives

| Common Name | CAS Registry Number |
|-------------------------|----------------------------|
| ● Acetic acid | 64-19-7 |
| ● alpha-Methylglucoside | 97-30-3 |
| ● Ascorbic acid | 50-81-7 |
| ● Bentonite | 1302-78-9 |
| ● Calcined kaolin | 66402-68-4 |
| ● Calcium acetate | 62-54-4 |
| ● Calcium carbonate | 471-34-1 |

| Common Name | CAS Registry Number |
|--|-----------------------------|
| ● Calcium chloride, anhydrous | 10043-52-4 |
| ● Calcium chloride, dihydrate | 10035-04-8 |
| ● Calcium citrate | 813-94-5 |
| ● Calcium formate | 544-17-2 |
| ● Calcium magnesium acetate | 76123-46-1 |
| ● Calcium silicate | 1344-95-2 |
| ● Canola oil | 120962-03-0 |
| ● Carrageenan | 9000-07-1 |
| ● Cellulose | 9004-34-6 |
| ● Cellulose, 2-hydroxypropyl methyl ether | 9004-65-3 |
| ● Cellulose, carboxymethyl ether, sodium salt | 9004-32-4 |
| ● Cellulose, regenerated | 68442-85-3 |
| ● Citric acid, anhydrous | 77-92-9 |
| ● Citric acid, monohydrate | 5949-29-1 |
| ● Coconut oil | 8001-31-8 |
| ● Corn gluten protein | 66071-96-3 |
| ● Corn oil | 8001-30-7 |
| ● Corn sugar syrup | 8029-43-4 |
| ● D-Gluconic acid | 526-95-4 |
| ● D-Glucose | 50-99-7 |
| ● Dextrin | 9004-53-9 |
| ● Dipotassium hydrogen citrate | 3609-96-9 |
| ● Disodium disilicate | 13870-28-5 |
| ● Disulfurous acid, disodium salt | 7681-57-4 |
| ● DL-Lactic acid | 50-21-5 |
| ● Formic acid | 64-18-6 |
| ● Fumaric acid | 110-17-8 |
| ● Glass fibers | 65997-17-3 |
| ● Gluconolactone | 90-80-2 |
| ● Glycine | 56-40-6 |
| ● Guar gum | 9000-30-0 |
| ▲ Hydrochloric acid (aqueous) (*Yellow, due to its status as a Hazardous Air Pollutant HAP under the Clean Air Act.) | 7647-01-0 |
| ● Hydroxyethyl cellulose | 9004-62-0 |

| Common Name | CAS Registry Number |
|--|-----------------------------|
| ● Hydroxypropyl cellulose | 9004-64-2 |
| ● Inulin, carboxymethyl ether, sodium salt | 430439-54-6 |
| ● Kaolin | 1332-58-7 |
| ● L-Lactic acid | 79-33-4 |
| ● Limestone | 1317-65-3 |
| ● Magnesium acetate | 142-72-3 |
| ● Magnesium chloride, anhydrous | 7786-30-3 |
| ● Magnesium chloride, hexahydrate | 7791-18-6 |
| ● Magnesium hydroxide | 1309-42-8 |
| ● Magnesium oxide | 1309-48-4 |
| ● Magnesium sulfate, anhydrous | 7487-88-9 |
| ● Magnesium sulfate, heptahydrate | 10034-99-8 |
| ● Malic acid | 6915-15-7 |
| ● Maltodextrin | 9050-36-6 |
| ● Methanesulfonic acid | 75-75-2 |
| ● Methyl cellulose | 9004-67-5 |
| ● Molasses, blackstrap | 8052-35-5 |
| ● Nepheline syenite | 37244-96-5 |
| ● Olive oil | 8001-25-0 |
| ● Palm oil | 8002-75-3 |
| ● Perlite | 93763-70-3 |
| ● Potassium acetate | 127-08-2 |
| ● Potassium bicarbonate | 298-14-6 |
| ● Potassium carbonate, anhydrous | 584-08-7 |
| ● Potassium chloride | 7447-40-7 |
| ● Potassium citrate, anhydrous | 866-84-2 |
| ● Potassium citrate, monohydrate | 6100-05-6 |
| ● Potassium hydroxide | 1310-58-3 |
| ● Potassium silicate | 1312-76-1 |
| ● Potassium sulfate | 7778-80-5 |
| ● Pumice | 1332-09-8 |
| ● Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica | 68909-20-6 |
| ● Silica | 7631-86-9 |

| Common Name | CAS Registry Number |
|---|----------------------------|
| ● Silica gel (*For TSCA purposes, this CASRN/chemical name is used to represent 112926-00-8 (hydrated silica).) | 63231-67-4 |
| ● Silicic acid, disodium salt, pentahydrate | 10213-79-3 |
| ● Silicon carbide | 409-21-2 |
| ● Smectite-group minerals | 12199-37-0 |
| ● Sodium acetate | 127-09-3 |
| ● Sodium bicarbonate | 144-55-8 |
| ● Sodium bisulfate | 7681-38-1 |
| ● Sodium carbonate, anhydrous | 497-19-8 |
| ● Sodium carbonate, monohydrate | 5968-11-6 |
| ● Sodium chloride | 7647-14-5 |
| ● Sodium citrate, anhydrous | 68-04-2 |
| ● Sodium citrate, dihydrate | 6132-04-3 |
| ● Sodium dihydrogen citrate | 18996-35-5 |
| ● Sodium formate | 141-53-7 |
| ● Sodium gluconate | 527-07-1 |
| ● Sodium hydroxide | 1310-73-2 |
| ● Sodium magnesium silicate | 53320-86-8 |
| ● Sodium metasilicate | 6834-92-0 |
| ● Sodium propionate | 137-40-6 |
| ● Sodium sesquicarbonate | 533-96-0 |
| ● Sodium silicate | 1344-09-8 |
| ● Sodium sulfate | 7757-82-6 |
| ● Sodium sulfite | 7757-83-7 |
| ● Sodium thiosulfate | 7772-98-7 |
| ● Sodium thiosulfate, pentahydrate | 10102-17-7 |
| ● Sorbitol | 50-70-4 |
| ● Soybean oil | 8001-22-7 |
| ● Starch | 9005-25-8 |
| ● Starch, 2-hydroxypropyl ether | 9049-76-7 |
| ● Sucrose | 57-50-1 |
| ● Sulfamic acid | 5329-14-6 |
| ▲ Sulfuric acid (aqueous) (*Yellow due in part to IARC designation for strong inorganic acid mists. Meets criteria for Simple Acids and Bases sub-group.) | 7664-93-9 |

| Common Name | CAS Registry Number |
|-----------------------------------|-----------------------------|
| ● Sulfurous acid, monosodium salt | 7631-90-5 |
| ● Titanium (IV) oxide | 13463-67-7 |
| ● Urea, methanesulfonate (1:1) | 207308-34-7 |
| ● Vinegar | 8028-52-2 |
| ● Xanthan gum | 11138-66-2 |
| ● Zeolites | 1318-02-1 |
| ● Zeolites, NaA | 68989-22-0 |

Solvents

| Common Name | CAS Registry Number |
|--|----------------------------|
| ▲ (d)-Limonene (*Yellow due to hazard concerns. Must meet 5.5.2.) | 5989-27-5 |
| ● 1,1'-Dimethyldiethylene glycol | 110-98-5 |
| ● 1,2-Propanediol | 57-55-6 |
| ● 1,3-Butanediol | 107-88-0 |
| ● 1,3-Dioxolan-2-one, 4-ethyl- | 4437-85-8 |
| ● 1,3-Propanediol | 504-63-2 |
| ● 1-(2-Methoxy-1-methylethoxy)-2-propanol | 20324-32-7 |
| ● 1-Dodecanol | 112-53-8 |
| ● 1-Methoxy-2-propanol | 107-98-2 |
| ● 1-Propoxy-2-propanol | 1569-01-3 |
| ● 1-Undecanol | 112-42-5 |
| ● 2-Methyl-2,4-pentanediol | 107-41-5 |
| ● 3-Methyl-3-methoxybutanol | 56539-66-3 |
| ● 4-Hydroxymethyl-1,3-dioxolan-2-one | 931-40-8 |
| ▲ 9-Dodecenoic acid, methyl ester (*Yellow due to hazard concerns, but allowed to provide functionality while meeting Safer Choice VOC criteria. See section 4.2.7.1.) | 39202-17-0 |
| ● Alcohols, C9-11 | 66455-17-2 |
| ● Butanoic acid, 3-hydroxy-, ethyl ester | 5405-41-4 |
| ● Butyl-3-hydroxybutanoate | 53605-94-0 |
| ▲ Diethylene glycol mono-N-butyl ether (*Yellow, due in part to its status as a Hazardous Air Pollutant HAP under the Clean Air Act. *Yellow due to hazard concerns, but allowed to provide functionality while meeting Safer Choice VOC criteria. See section 4.2.7.1.) | 112-34-5 |
| ● Dimethyl adipate | 627-93-0 |

| Common Name | CAS Registry Number |
|---|----------------------------|
| ● Dimethyl glutarate | 1119-40-0 |
| ● Dimethyl succinate | 106-65-0 |
| ● Dipropylene glycol | 25265-71-8 |
| ● Dipropylene glycol methyl ether | 34590-94-8 |
| ▲ Dipropylene glycol monobutyl ether (*Yellow due to hazard concerns, but allowed to provide functionality while meeting Safer Choice VOC criteria. See section 4.2.7.1.) | 29911-28-2 |
| ● Ethanol | 64-17-5 |
| ● Ethyl lactate | 97-64-3 |
| ▲ Fatty acids, C12-18, methyl esters (*Yellow due to hazard concerns, but allowed to provide functionality while meeting Safer Choice VOC criteria. See section 4.2.7.1.) | 68937-84-8 |
| ▲ Fatty acids, C16-18 and C18-unsatd., methyl esters (*Yellow due to hazard concerns, but allowed to provide functionality while meeting Safer Choice VOC criteria. See section 4.2.7.1.) | 67762-38-3 |
| ▲ Fatty acids, soya, Me esters (*Yellow due to hazard concerns, but allowed to provide functionality while meeting Safer Choice VOC criteria. See section 4.2.7.1.) | 68919-53-9 |
| ● Glycerides, mixed decanoyl and octanoyl | 73398-61-5 |
| ● Glycerol | 56-81-5 |
| ● Isopropanol | 67-63-0 |
| ● Isopropyl myristate | 110-27-0 |
| ● Pentanedioic acid, 2-methyl-, 1,5-dimethyl ester | 14035-94-0 |
| ▲ Polypropylene glycol (*Yellow due to hazard concerns, but allowed to provide functionality while meeting Safer Choice VOC criteria. See section 4.2.7.1.) | 25322-69-4 |
| ● Propanol 1 (or 2)-2-methoxymethyl ethoxy, acetate | 88917-22-0 |
| ▲ Propanol, [2-(2-methoxymethylethoxy)methylethoxy]- (*Yellow due to hazard concerns, but allowed to provide functionality while meeting Safer Choice VOC criteria. See section 4.2.7.1.) | 25498-49-1 |
| ● Propyl acetate | 109-60-4 |
| ● Propylene carbonate | 108-32-7 |
| ● Propylene glycol methyl ether acetate | 108-65-6 |
| ● Propylene glycol n-butyl ether | 5131-66-8 |
| ▲ Soybean oil, methyl esters (*Yellow due to hazard concerns, but allowed to provide functionality while meeting Safer Choice VOC criteria. See section 4.2.7.1.) | 67784-80-9 |

| Common Name | CAS Registry Number |
|-------------------------------------|----------------------------|
| ● Tetraethylene glycol | 112-60-7 |
| ● Tripropylene glycol n-butyl ether | 55934-93-5 |
| ● Water | 7732-18-5 |
| ● White mineral oil, petroleum | 8042-47-5 |

Specialized Industrial Chemicals

These chemicals are only eligible for use in specialized industrial products and are qualified based on [Safer Choice Criteria for Specialized Industrial Products](#) (see also Section 4.6 of the [Safer Choice Standard](#))

| Common Name | CAS Registry Number |
|--|-----------------------------|
| ▲ 1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro- | 27136-73-8 |
| ▲ Amphoteric fluorinated surfactant | 34455-29-3 |
| ▲ Boron, trifluoro(tetrahydrofuran)-, (T-4)-, polymer with 3-methyl-3-[(2,2,2-trifluoroethoxy)methyl]oxetane, ether with 2,2-dimethyl-1,3-propanediol (2:1), bis(hydrogen sulfate), diammonium salt | 452080-64-7 |
| ▲ Boron, trifluoro(tetrahydrofuran)-, (T-4)-, polymer with 3-methyl-3-[(2,2,3,3,3-pentafluoropropoxy)methyl]oxetane, ether with 2,2-dimethyl-1,3-propanediol (2:1), bis(hydrogen sulfate), diammonium salt | 452080-67-0 |
| ▲ Ethanolamine | 141-43-5 |
| ▲ Fatty acids, C16-18 and C18-unsatd., methyl esters | 67762-38-3 |
| ▲ Fatty acids, soya, Me esters | 68919-53-9 |
| ▲ Halogenated aliphatic acid | 27619-97-2 |
| ▲ Soybean oil, methyl esters | 67784-80-9 |
| ▲ Tri-2-Butoxyethyl phosphate | 78-51-3 |
| ▲ Triethanolamine | 102-71-6 |

Surfactants

| Common Name | CAS Registry Number |
|---|-----------------------------|
| ● 1-Dodecanesulfonic acid, hydroxy-, sodium salt | 128824-30-6 |
| ● 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts | 147170-44-3 |
| ● 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., chlorides, sodium salts | 61789-39-7 |
| ● 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., inner salts | 61789-40-0 |

| Common Name | CAS Registry Number |
|---|-----------------------------|
| ● 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-[(1-oxodecyl)amino]-, inner salt | 73772-45-9 |
| ● 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-[(1-oxooctyl)amino]-, inner salt | 73772-46-0 |
| ● 9-Eicosenoic acid | 506-31-0 |
| ● Alcohols, C10-12, ethoxylated propoxylated | 68154-97-2 |
| ● Alcohols, C10-14, ethoxylated | 66455-15-0 |
| ● Alcohols, C10-16, ethoxylated | 68002-97-1 |
| ● Alcohols, C10-16, ethoxylated propoxylated | 69227-22-1 |
| ● Alcohols, C11-14-iso-, C13-rich, ethoxylated | 78330-21-9 |
| ● Alcohols, C11-15-secondary, ethoxylated | 68131-40-8 |
| ● Alcohols, C12-13, ethoxylated | 66455-14-9 |
| ● Alcohols, C12-14, ethoxylated | 68439-50-9 |
| ● Alcohols, C12-14, ethoxylated propoxylated | 68439-51-0 |
| ● Alcohols, C12-14-secondary, ethoxylated | 84133-50-6 |
| ● Alcohols, C12-15, ethoxylated | 68131-39-5 |
| ● Alcohols, C12-15, ethoxylated propoxylated | 68551-13-3 |
| ● Alcohols, C12-15-branched and linear, ethoxylated propoxylated | 120313-48-6 |
| ● Alcohols, C12-16, ethoxylated | 68551-12-2 |
| ● Alcohols, C12-18 | 67762-25-8 |
| ● Alcohols, C12-18, ethers with polyethylene glycol mono-Bu ether | 146340-16-1 |
| ● Alcohols, C12-18, ethoxylated | 68213-23-0 |
| ● Alcohols, C14-15, ethoxylated | 68951-67-7 |
| ● Alcohols, C16-18, ethoxylated | 68439-49-6 |
| ● Alcohols, C6-10, ethoxylated | 70879-83-3 |
| ● Alcohols, C6-10, ethoxylated propoxylated | 68987-81-5 |
| ● Alcohols, C6-12, ethoxylated | 68439-45-2 |
| ● Alcohols, C8-10, ethoxylated | 71060-57-6 |
| ● Alcohols, C8-10, ethoxylated propoxylated | 68603-25-8 |
| ● Alcohols, C8-18, ethoxylated propoxylated | 69013-18-9 |
| ● Alcohols, C9-11, ethoxylated | 68439-46-3 |
| ● Alkyl(C12-C16)alcohol sulfate sodium salt | 73296-89-6 |
| ● Amides, coco, N-[3-(dimethylamino)propyl], alkylation products with chloroacetic acid, sodium salts | 70851-07-9 |
| ● Amines, C10-16-alkyldimethyl, N-oxides | 70592-80-2 |

| Common Name | CAS Registry Number |
|--|-----------------------------|
| ● Amines, C12-18-alkyldimethyl, N-oxides | 68955-55-5 |
| ● Amines, coco alkyl dihydroxyethyl, oxides | 61791-47-7 |
| ● Ammonium lauryl sulfate | 2235-54-3 |
| ● Ammonium xylenesulfonate | 26447-10-9 |
| ● Benzene, (1-methylethyl)-, monosulfo deriv., sodium salt (1:1) | 32073-22-6 |
| ● Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. | 85536-14-7 |
| ● Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., sodium salts | 127184-52-5 |
| ● Benzenesulfonic acid, C10-14-alkyl derivs., sodium salts | 69669-44-9 |
| ● Benzenesulfonic acid, C10-16-alkyl derivs. | 68584-22-5 |
| ● Benzenesulfonic acid, C10-16-alkyl derivs., magnesium salts | 68584-26-9 |
| ● Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts | 68081-81-2 |
| ● beta-Alanine, N-(2-carboxyethyl)-N-(2-ethylhexyl)-, sodium salt (1:1) | 94441-92-6 |
| ● Betaines, C10-16-alkyl(2-hydroxy-3-sulfopropyl)dimethyl | 72869-77-3 |
| ● Bis(1-methylamyl) sodium sulfosuccinate | 3006-15-3 |
| ● Butanedioic acid, sulfo-, mono(C10-C16)alkyl ethoxylated ester, disodium salt | 68815-56-5 |
| ● C10-13 Alkyl benzenesulfonic acid, sodium salts | 90194-45-9 |
| ● Capric dimethyl amine oxide | 2605-79-0 |
| ● Castor oil, sulfated, sodium salt | 68187-76-8 |
| ● Cetamine oxide | 7128-91-8 |
| ● Cocamidopropyl hydroxysultaine | 68139-30-0 |
| ● Cocamidopropylamine oxide | 68155-09-9 |
| ● Cocamine oxide | 61788-90-7 |
| ● Coconut fatty acids, ethoxylated | 61791-29-5 |
| ● Coconut oil, sodium salt | 68814-96-0 |
| ● Cyclocarboxypropyloleic acid | 53980-88-4 |
| ■ D-Glucopyranose, oligomeric, 2-ethylhexyl glycosides (*Flagged on 12/09/2014 for removal from SCIL in 12 months.) | 161074-93-7 |
| ● D-Glucopyranose, oligomeric, 6-(dihydrogen 2-hydroxy-1,2,3-propanetricarboxylate), 1-(coco alkyl) ethers, sodium salts | 151911-51-2 |
| ● D-Glucopyranose, oligomeric, Bu glycosides | 510758-10-8 |
| ● D-Glucopyranose, oligomeric, C10-16-alkyl glycosides | 110615-47-9 |
| ● D-Glucopyranose, oligomeric, C10-16-alkyl glycosides, 2-hydroxy-3-sulfopropyl ethers, sodium salts | 742087-49-6 |
| ● D-Glucopyranose, oligomeric, C9-11-alkyl glycosides | 132778-08-6 |

| Common Name | CAS Registry Number |
|--|------------------------------|
| ● D-Glucopyranose, oligomeric, decyl octyl glycosides | 68515-73-1 |
| ● D-Glucopyranoside, hexyl | 54549-24-5 |
| ● Decanoic acid | 334-48-5 |
| ● Decanoic acid, potassium salt (1:1) | 13040-18-1 |
| ● Decylbenzenesulfonic acid | 1322-98-1 |
| ● Diethylene glycol momolauryl ether sodium sulfate | 3088-31-1 |
| ● Disodium lauriminodipropionate | 3655-00-3 |
| ● Docosanoic acid | 112-85-6 |
| ● Dodecanoic acid | 143-07-7 |
| ● Dodecanoic acid, sodium salt | 629-25-4 |
| ● Dodecene-1-sulfonic acid, sodium salt | 30965-85-6 |
| ● Dodecyl alcohol, ethoxylated | 9002-92-0 |
| ● Dodecyl triethylene glycol ether | 3055-94-5 |
| ● Dodecylbenzene sulfonic acid | 27176-87-0 |
| ● Eicosanoic acid | 506-30-9 |
| ● Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsatd. fatty acids, methyl sulfates (salts) | 157905-74-3 |
| ● Ethanaminium, 2-hydroxy-N-(2-hydroxyethyl)-N,N-dimethyl-, esters with C16-18 and C18-unsatd. fatty acids, chlorides | 1079184-43-2 |
| ● Ethanaminium, N,N-dimethyl-2-[(1-oxooctadecyl)oxy]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride | 67846-68-8 |
| ● Fatty acids, C10-16 | 68002-90-4 |
| ● Fatty acids, C12-18, methyl esters, sulfonated, sodium salts | 149458-07-1 |
| ● Fatty acids, C14-18 and C16-18-unsatd. | 67701-06-8 |
| ● Fatty acids, C16 - C18 and C18 unsaturated, branched and linear | 68955-98-6 |
| ● Fatty acids, C16-18 and C18-unsatd. | 67701-08-0 |
| ● Fatty acids, C8-18 and C18-unsatd. | 67701-05-7 |
| ● Fatty acids, coco | 61788-47-4 |
| ● Fatty acids, coco, sodium salts | 61789-31-9 |
| ● Fatty acids, coconut oil, potassium salts | 61789-30-8 |
| ● Fatty acids, coconut oil, sulfoethyl esters, sodium salts | 61789-32-0 |
| ● Fatty acids, olive-oil, sodium salts | 61789-88-6 |
| ● Fatty acids, palm kernel-oil, methyl esters, sulfonated, sodium salts | 68440-13-1 |
| ● Fatty acids, palm-oil, sodium salts | 61790-79-2 |
| ● Fatty acids, safflower-oil, sodium salts | 68440-19-7 |

| Common Name | CAS Registry Number |
|--|----------------------------|
| ● Fatty acids, tall oil, sodium salt | 61790-45-2 |
| ● Fatty acids, tall-oil | 61790-12-3 |
| ● Fatty acids, tall-oil, potassium salts | 61790-44-1 |
| ● Fatty acids, tallow | 61790-37-2 |
| ● Fatty acids, tallow, hydrogenated, compds. with triethanolamine | 68605-97-0 |
| ● Fatty acids, tallow, sodium salts | 8052-48-0 |
| ● Gardol | 137-16-6 |
| ● Glycerides, C14-18 mono- and di- | 67701-33-1 |
| ● Glycerides, C16-18 and C18-unsatd. mono- and di- | 68424-61-3 |
| ● Glycerine oleate | 37220-82-9 |
| ● Glyceryl monostearate | 123-94-4 |
| ● Glyceryl stearates | 11099-07-3 |
| ● Glycine, N-methyl-, N-coco acyl derivs. | 68411-97-2 |
| ● Glycol distearate | 627-83-8 |
| ● Heptadecanoic acid | 506-12-7 |
| ● Hexanoic acid | 142-62-1 |
| ● Hexyl poly(oxyethylene) ether | 31726-34-8 |
| ● Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)-(2-carboxyethyl)-4,5-dihydro-2-norcoco alkyl, hydroxides, disodium salts | 68604-71-7 |
| ● Isopropanol | 67-63-0 |
| ● Lauramidopropyl betaine | 4292-10-8 |
| ● Lauramidopropylamine oxide | 61792-31-2 |
| ● Lauryl hydroxysultaine | 13197-76-7 |
| ● Lauryldimethylbetaine | 683-10-3 |
| ● Lignoceric acid | 557-59-5 |
| ● Linoleic acid | 60-33-3 |
| ● Linolenic acid | 463-40-1 |
| ● Magnesium lauryl sulfate | 3097-08-3 |
| ● Methyl laurate | 111-82-0 |
| ● Myristamido propylamine oxide | 67806-10-4 |
| ● Myristamidopropyl betaine | 59272-84-3 |
| ● Myristoleic acid | 544-64-9 |
| ● Myristyl alcohol, ethoxylated | 27306-79-2 |
| ● N,N-Dimethyl-1-tetradecanamine-N-oxide | 3332-27-2 |

| Common Name | CAS Registry Number |
|---|-----------------------------|
| ● N,N-Dimethyldodecylamine oxide | 1643-20-5 |
| ● N-(3-Alkyl(C12-C15)oxypropyl)-3-iminodipropionic acid, monosodium salt | 68608-69-5 |
| ● n-Octylpolyoxyethylene | 27252-75-1 |
| ● N-Octylpyrrolidone | 2687-94-7 |
| ● Octanoic acid | 124-07-2 |
| ● Octanoic acid, monoester with 1,2,3-propanetriol | 26402-26-6 |
| ● Octanoic acid, potassium salt | 764-71-6 |
| ● Octanoic acid, reaction products with 2-[(2-aminoethyl)amino]ethanol, acrylic acid alkylated (1:2), disodium salts | 68815-55-4 |
| ● Octyldimethylamine oxide | 2605-78-9 |
| ● Octyldimethylbetaine | 27593-14-2 |
| ● Oleic acid | 112-80-1 |
| ● Oleic acid, sodium salt | 143-19-1 |
| ■ Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether (*Flagged on 12/09/2014 for removal from SCIL in 12 months.) | 166736-08-9 |
| ▲ Oxirane, methyl-, polymer with oxirane, mono(2-ethylhexyl) ether | 64366-70-7 |
| ● Palmitic acid | 57-10-3 |
| ● Poloxalene | 9003-11-6 |
| ● Poly(oxy-1,2-ethanediyl), .alpha.-(3-carboxy-1-oxo-3-sulfopropyl)-.omega.-(dodecyloxy)-, disodium salt | 39354-45-5 |
| ● Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(octyloxy)- | 53563-70-5 |
| ● Poly(oxy-1,2-ethanediyl), .alpha.-decyl-.omega.-hydroxy- | 26183-52-8 |
| ● Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C10-16-alkyl ethers, ammonium salts | 67762-19-0 |
| ■ Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy- (*Flagged on 12/09/2014 for removal from SCIL in 12 months.) | 160875-66-1 |
| ● Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxosulfopropyl)-omega-hydroxy-, C10-12-alkyl ethers, disodium salts | 68954-91-6 |
| ● Poly(oxy-1,2-ethanediyl), alpha-(carboxymethyl)-omega-hydroxy-, C12-13-alkyl ethers | 70750-17-3 |
| ● Poly(oxy-1,2-ethanediyl), alpha-(carboxymethyl)-omega-hydroxy-, C12-14-alkyl ethers | 220622-96-8 |
| ● Poly(oxy-1,2-ethanediyl), alpha-butyl-omega-(octyloxy)- | 109075-72-1 |
| ● Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy-, branched and linear | 127036-24-2 |

| Common Name | CAS Registry Number |
|--|-----------------------------|
| ● Polyethylene glycol distearate | 9005-08-7 |
| ● Polyethylene glycol mono(tridecyl) ether | 24938-91-8 |
| ● Polyethylene glycol mono-C10-16-alkyl ether sulfate sodium salt | 68585-34-2 |
| ● Polyethylene glycol mono-C12-14-alkyl ether sulfate sodium salt | 68891-38-3 |
| ● Polyethylene glycol monoleyl ether | 9004-98-2 |
| ● Polyethylene glycol stearate | 9004-99-3 |
| ◐ Polyoxyethylene dioleate | 9005-07-6 |
| ● Polyoxyethylene monooleate | 9004-96-0 |
| ● Polyoxyethylene monooctadecyl ether | 9005-00-9 |
| ● Polyoxyethylene monoundecyl ether | 34398-01-1 |
| ● Polyoxyethylene sorbitan trioleate | 9005-70-3 |
| ● Polysorbate 80 | 9005-65-6 |
| ● Potassium acrylinoate | 68127-33-3 |
| ● Potassium dodecanoate | 10124-65-9 |
| ● Potassium dodecylbenzene sulfonate | 27177-77-1 |
| ● Potassium linoleate | 3414-89-9 |
| ● Potassium myristate | 13429-27-1 |
| ● Potassium palmitate | 2624-31-9 |
| ● Potassium palmitoleate | 593-29-3 |
| ● Propanoic acid, 2-hydroxy-, 2-(C10-16-alkyloxy)-1-methyl-2-oxoethyl ester | 910661-93-7 |
| ● Quaternary ammonium compounds, bis(hydroxyethyl)methyltallow alkyl, ethoxylated, methyl sulfates (salts) | 73138-81-5 |
| ● Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides | 61791-10-4 |
| ● Sodium 1-methoxy-1-oxohexadecane-2-sulphonate | 4016-24-4 |
| ● Sodium 1-octanesulfonate | 5324-84-5 |
| ● Sodium cocoyl glutamate | 68187-32-6 |
| ● Sodium cumene sulfonate | 28348-53-0 |
| ● Sodium decanoate | 1002-62-6 |
| ● Sodium dodecylpoly(oxyethylene) sulfate | 9004-82-4 |
| ◐ Sodium ethasulfate (*Flagged on 12/09/2014 for removal from SCIL in 12 months.) | 126-92-1 |
| ● Sodium laurimino dipropionate | 14960-06-6 |
| ● Sodium lauryl benzene sulfonate | 25155-30-0 |

| Common Name | CAS Registry Number |
|---|------------------------------|
| ● Sodium lauryl sulfate | 151-21-3 |
| ● Sodium lauryl trioxyethylene sulfate | 13150-00-0 |
| ● Sodium linoleate | 822-17-3 |
| ● Sodium myristate | 822-12-8 |
| ● Sodium myristol sarcosinate | 30364-51-3 |
| ● Sodium octanoate | 1984-06-1 |
| ● Sodium octyl sulfate | 142-31-4 |
| ● Sodium palmitate | 408-35-5 |
| ● Sodium polyoxyethylene tridecyl sulfate | 25446-78-0 |
| ● Sodium stearate | 822-16-2 |
| ● Sodium tridecylbenzene sulfonate | 26248-24-8 |
| ● Sodium undecylbenzene sulfonate | 27636-75-5 |
| ● Sodium xylene sulfonate | 1300-72-7 |
| ● Sorbitan monolaurate | 1338-39-2 |
| ● Sorbitan monooleate | 1338-43-8 |
| ● Sorbitan monopalmitate | 26266-57-9 |
| ● Sorbitan monostearate | 1338-41-6 |
| ● Sorbitan oleate decylglucoside crosspolymer | 1443994-56-6 |
| ● Sorbitan sesquioleate | 8007-43-0 |
| ● Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs. | 9005-64-5 |
| ● Sorbitan, trioctadecanoate, poly(oxy-1,2-ethanediyl) derivs. | 9005-71-4 |
| ● Soybean oil fatty acids | 68308-53-2 |
| ● Soybean oil, sulfated, sodium salt | 61790-16-7 |
| ● Stearic acid | 57-11-4 |
| ● Sulfonic acids, C10-18-alkane, sodium salts | 68037-49-0 |
| ● Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 68439-57-6 |
| ● Sulfonic acids, petroleum, sodium salts | 68608-26-4 |
| ● Sulfuric acid, mono-C10-16-alkyl esters, ammonium salts | 68081-96-9 |
| ● Sulfuric acid, mono-C10-16-alkyl esters, sodium salts | 68585-47-7 |
| ● Sulfuric acid, mono-C12-18-alkyl esters, sodium salts | 68955-19-1 |
| ● Sulfuric acid, mono-C16-18-alkyl esters, sodium salts | 68955-20-4 |
| ● Sulfuric acid, monodecyl ester, sodium salt (1:1) | 142-87-0 |
| ● Sunflower oil, potassium salt | 69669-39-2 |
| ● Tetradecanoic acid | 544-63-8 |

Uncategorized

| Common Name | CAS Registry Number |
|---|-----------------------------|
| ● Aloe barbadensis extract | 85507-69-3 |
| ● Aloe barbadensis mill., extract | 94349-62-9 |
| ● Aloe, pharmaceutical | 8001-97-6 |
| ● Beeswax | 8012-89-3 |
| ● Cellulose, regenerated | 68442-85-3 |
| ▲ Denatonium benzoate (*Only allowed as a bittering agent.) | 3734-33-6 |
| ● Fats and Glyceridic oils, avocado | 8024-32-6 |
| ● Fats and Glyceridic oils, rice bran | 68553-81-1 |
| ● Fats and Glyceridic oils, sesame | 8008-74-0 |
| ● Gelatins, hydrolyzates | 68410-45-7 |
| ● Hemicellulose | 9034-32-6 |
| ○ Heptanoic acid | 111-14-8 |
| ● Lignin | 9005-53-2 |
| ○ Linseed oil | 8001-26-1 |
| ● Nitrogen | 7727-37-9 |
| ○ Nonanoic acid | 112-05-0 |
| ● Oils, oat | 106457-91-4 |
| ● Oils, palm kernel | 8023-79-8 |
| ● Oils, wheat | 68917-73-7 |
| ● Paraffin waxes, petroleum, clay-treated | 64742-43-4 |
| ● Paraffin waxes, petroleum, hydrotreated | 64742-51-4 |
| ○ Potassium heptadecanoate | 17378-36-8 |
| ● Pulp, cellulose | 65996-61-4 |
| ● Safflower oil | 8001-23-8 |
| ● Soy protein isolate, sodium salt | 77098-13-6 |
| ● Sunflower oil | 8001-21-6 |
| ● Urea | 57-13-6 |
| ● Urea, monohydrochloride | 506-89-8 |
| ▲ Zinc ricinoleate | 13040-19-2 |

Source: <http://www2.epa.gov/saferchoice/safer-ingredients>