



Custom Colloidal Products for a Cleaner Environment

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February 27, 2019

Re: EPA Safer Choice Chemical Ingredients Program for Neutralene 7030SF with Nanosorb Air Care Product used at Monmouth County Landfill, 6000 Asbury Ave, Tinton Falls, NJ 07753

To:

Mr. Geoff Perselay,

This letter is to explain the EPA's Safer Choice Chemical Ingredients criteria regarding chemicals used in the manufacturing of all of our AIR CARE products.

As stated by the Environmental Protection Agency (EPA), below is their explanation of their program and their Safer Choice Tiers associated with products to use in manufacturing of goods.

Overview of the Safer Chemical Ingredients List

The Safer Chemical Ingredients List (SCIL) is a list of chemical ingredients, arranged by functional-use class that the Safer Choice Program has evaluated and determined to be safer than traditional chemical ingredients. This list is designed to help manufacturers find safer chemical alternatives that meet the criteria of the Safer Choice Program.

Before Safer Choice decides to include a chemical on the SCIL, a third-party profiler (i.e., NSF, International or ToxServices) gathers hazard information from a broad set of resources, including the identification and evaluation of all available toxicological and environmental fate data. The third party profiler submits a report to Safer Choice, with a recommendation on whether the chemical passes the Criteria for Safer Chemical

Ingredients. Safer Choice staff performs due diligence by reviewing the submission for completeness, consistency, and compliance with the Safer Choice Criteria. If more than one third-party has evaluated the chemical, Safer Choice also checks for differences in the profiles and resolves any conflicts. In some cases, Safer Choice may also perform additional literature reviews and consider data from confidential sources, such as EPA's New Chemicals Program. Safer Choice does not typically examine primary literature (original studies) as part of its review and listing decisions.

The list is not intended to be exclusive. Chemicals may be submitted as part of a formulation that the program has yet to review or a chemical manufacturer may develop a chemical to meet the Safer Choice criteria. If these chemicals meet our criteria, they may be approved for use in Safer Choice-labeled products and added to the SCIL. Chemicals may be removed from the list or have their status changed based on new data or innovations that raise the safer-chemistry bar. Safer Choice will ensure that no confidential or trade secret information appears in this list.

About the List

Safer Choice ensures that no confidential or trade secret information appears in this list.

†The Safer Choice Standard and the Criteria for Safer Chemical Ingredients are protective and address a broad range of potential toxicological effects, including:

- carcinogens, mutagens, reproductive or developmental toxicants;
- persistent, bioaccumulative and toxic chemicals;
- systemic or internal organ toxicants;
- asthmagens;
- sensitizers; and
- chemicals on authoritative lists of chemicals of concern.

Additionally:

- Chemicals that exhibit endocrine activity are closely evaluated. Those associated with toxicological hazards are not allowed.
- Impurities can be present in chemicals that are used in Safer Choice products. Safer Choice limits impurities that do not meet its criteria to not more than 0.01 percent in the final product. The safer chemicals list does not include impurities.

*All chemicals in the listing are among the safest for their functional use.

● **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. (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.

■ **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.

Inventek Colloidal Cleaners takes pride to continually source the safest ingredients in the manufacturing our products. We are proud to state that all the ingredients used in the manufacturing of the Neutralene 7030SF with Nanosorb for Air Care, which are the same ingredients listed on the Safety Data Sheet, fall under the ● Green Circle Tier. The ● Green Circle Tier is the safest tier recognized out of the five tiers.

Sincerely,



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Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 08.02.2016

Revision: 08.02.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: Neutralene® 7030SF**
- **Article number:** No other identifiers
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture:** Odour neutralising agent
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Air Care Technology, LLC.
20523 Whiteberry Court
Humble TX 77346-1338
(281)812-0795
- **1.4 Emergency telephone number:**
ChemTel Inc.
+1 (800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.
The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H361.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **Additional information:**
Classifications are based on the results of actual product testing as performed using GLP practices.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**
The following pictograms are only for use within the United States (OSHA): GHS08.



GHS07 GHS08

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· **Signal word** Warning

· **Hazard-determining components of labelling:**

Eucalyptus Oil
2-(4-tert-Butylbenzyl)propionaldehyde
Cinnamal
Citrus aurantium var. dulcis
alpha-methylcinnamaldehyde
citronellal

· **Hazard statements**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H361.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

The following Precautionary Statements are applicable only to the OSHA GHS and Canadian WHMIS regulations and not the specific CLP regulation: P201, P202, P308+P313.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P363 Wash contaminated clothing before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 0

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *2

Fire = 0

Reactivity = 0

* - Indicates a long term health hazard from repeated or prolonged exposures.

· **2.3 Other hazards** There are no other hazards not otherwise classified that have been identified.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Components:**

CAS: 9016-45-9 NLP: 500-024-6	4-nonylphenyl-polyethylene glycol ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	2,5-10%
CAS: 8000-48-4 EINECS: 283-406-2	Eucalyptus Oil ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317	≤ 2,5%
CAS: 104-55-2 EINECS: 203-213-9	Cinnamal ⚠ Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	< 1%
CAS: 80-54-6 EINECS: 201-289-8	2-(4-tert-Butylbenzyl)propionaldehyde ⚠ Repr. 2, H361 ⚠ Aquatic Chronic 2, H411 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	< 1%
CAS: 68647-72-3 EINECS: 232-433-8	Citrus aurantium var. dulcis ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	< 1%
CAS: 101-39-3 EINECS: 202-938-8	alpha-methylcinnamaldehyde ⚠ Skin Sens. 1, H317	< 1%
CAS: 106-23-0 EINECS: 203-376-6	citronellal ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	< 1%

· **SVHC**

9016-45-9 | 4-nonylphenyl-polyethylene glycol

· **Additional information:**

For the listed ingredient(s), the identity and exact percentages are being withheld as a trade secret.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately remove any clothing soiled by the product.
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
Allergic reactions
Slight irritant effect on eyes.
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.
- **Hazards:** May cause sensitisation by skin contact.
- **4.3 Indication of any immediate medical attention and special treatment needed**
Medical supervision for at least 48 hours.
Treat skin and mucous membrane with antihistamine and corticoid preparations.
Contains Eucalyptus Oil. May produce an allergic reaction.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable receptacles.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

- Prevent formation of aerosols.
- Use only in well ventilated areas.
- Avoid splashes or spray in enclosed areas.

· **Information about fire - and explosion protection:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

- Avoid storage near extreme heat, ignition sources or open flame.

· **Information about storage in one common storage facility:**

- Store away from foodstuffs.

- Do not store together with oxidising and acidic materials.

· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs:** No further relevant information available.

· **PNECs:** No further relevant information available.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- The usual precautionary measures are to be adhered to when handling chemicals.

- Keep away from foodstuffs, beverages and feed.

- Immediately remove all soiled and contaminated clothing.

- Pregnant women should strictly avoid inhalation or skin contact.

- Wash hands before breaks and at the end of work.

- Do not inhale gases / fumes / aerosols.

- Avoid contact with the eyes and skin.

· **Respiratory protection:**

- Not required under normal conditions of use.

- Use suitable respiratory protective device in case of insufficient ventilation.

- Use suitable respiratory protective device when aerosol or mist is formed.

- For spills, respiratory protection may be advisable.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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· **Eye protection:**



Safety glasses

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment:**

No further relevant information available.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **Appearance**

· **Form:** Liquid

· **Colour:** Clear

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value at 20 °C (68 °F):** 7

· **Melting point/Melting range:** Not determined.

· **Boiling point/Boiling range:** 100 °C (212 °F)

· **Flash point:** > 100 °C (> 212 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Auto/Self-ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits**

· **Lower:** Not determined.

· **Upper:** Not determined.

· **Vapour pressure:** Not determined.

· **Density at 20 °C (68 °F):** 1 g/cm³ (8,345 lbs/gal)

· **Relative density:** Not determined.

· **Vapour density:** Not determined.

· **Evaporation rate:** Not determined.

· **Solubility in / Miscibility with**

· **water:** Fully miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity**

· **Dynamic:** Not determined.

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Kinematic:

Not determined.

· **9.2 Other information**

No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong acids and oxidising agents.
- **10.4 Conditions to avoid** Store away from oxidising agents.
- **10.5 Incompatible materials** No further relevant information available.
- **10.6 Hazardous decomposition products** Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity:** Based on available data, the classification criteria are not met.
 - **LD/LC50 values relevant for classification:**
- | | | |
|--|------|---------------------|
| 9016-45-9 4-nonylphenyl-polyethylene glycol | | |
| Oral | LD50 | 4290 mg/kg (mouse) |
| 8000-48-4 Eucalyptus Oil | | |
| Oral | LD50 | 2480 mg/kg (rat) |
| Dermal | LD50 | 2480 mg/kg (rabbit) |
- **Primary irritant effect**
 - **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
 - **Serious eye damage/irritation:** Slight irritant effect on eyes.
 - **Respiratory or skin sensitisation:**
May cause an allergic skin reaction.
 - **Subacute to chronic toxicity:** Suspected of damaging fertility or the unborn child.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

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- **Probable routes of exposure:**
Ingestion.
Inhalation.
Eye contact.
Skin contact.
- **Repeated dose toxicity:** Repeated exposure may result in skin sensitivity.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:**
Suspected of damaging fertility or the unborn child.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
The material is harmful to the environment.

LC50	75 mg/l (pimephales promelas)
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- **Toxicity to other organisms**

NOEC - No Observed Effect Concentration	50 mg/l (pimephales promelas)
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- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· **14.1 UN-Number**

· DOT, ADR, IMDG, IATA Not Regulated

· **14.2 UN proper shipping name**

· DOT, ADR, IMDG, IATA Not Regulated

· **14.3 Transport hazard class(es)**

· DOT, ADR, IMDG, IATA

· Class Not Regulated

· **14.4 Packing group**

· DOT, ADR, IMDG, IATA Not Regulated

· **14.5 Environmental hazards:**

· Marine pollutant: No

· **14.6 Special precautions for user**

Not applicable.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

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SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **United States (USA)**
- **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California):**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

· **IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

· **Canada**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0,1%)**

104-55-2 | Cinnamal

· **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients are listed.

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

9016-45-9 | 4-nonylphenyl-polyethylene glycol

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· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMS: Hazardous Materials Identification System (USA)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- Flam. Liq. 3: Flammable liquids, Hazard Category 3
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
- Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
- Repr. 2: Reproductive toxicity, Hazard Category 2
- Asp. Tox. 1: Aspiration hazard, Hazard Category 1
- Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· **Sources**

- Website, European Chemicals Agency (echa.europa.eu)
- Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor-internet/registry/substreg/home/overview/home.do)

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