

Material Safety Data sheet

1. Identification

Product identifier

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| Other means of identification | <u>(sodium Lauryl Ether Sulfate Pearling Agent)</u> |
| Product code | |
| Recommended use | 1544 |
| Recommended restrictions | Surfactant For industrial use only. |

2. Hazard(s) identification

| | | |
|------------------------------|---|-----------|
| Physical hazards | Not classified. | |
| Health hazards | Skin corrosion/irritation | Category2 |
| | Serious eye damage/eye irritation | Category1 |
| | Hazardous to the aquatic environment | Category3 |
| Environmental hazards | Category, acute hazard | |
| | Hazardous to the aquatic environment, long-term hazard | Category3 |
| OSHA defined hazards | Not classified. | |
| Label elements | | |



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| Signal word | Danger |
| Hazard statement | Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. Toxic to aquatic life. Harmful to aquatic life with long lasting effects. |
| Precautionary statement | |
| Prevention | Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF ON SKIN: Wash with plenty of soap and water. |
| Response | |
| Storage | Store in a well-ventilated place. Keep cool |
| Disposal | Dispose of contents/container in accordance with local/ regional/ national/international regulations. None known. |
| Hazard(s) not otherwise classified (HNOC) | |
| Supplemental information | None. |

3. Composition/information on ingredients Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---------------------|--------------------------|--------------|-------|
| Water | | 7732-18-5 | 65-67 |
| Anionic/Ester Blend | | Proprietary* | 33-35 |

Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

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| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
| Skin contact | Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. |

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| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately. Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting without advice from poison control center. |
| Most important symptoms/ effects, acute and delayed | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed. |
| General information | Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). Do not use water jet as an extinguisher, as this will spread the fire. |
| Unsuitable extinguishing media | |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/ instructions | Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted. |
| General fire hazards | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). Do not use water jet as an extinguisher, as this will spread the fire. |

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.

Methods and materials for containment and cleaning up

Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

7. Handling and storage

Precautions for safe handling

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Conditions for safe storage, including any incompatibilities

Never return spills to original containers for re-use.

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Store in original tightly closed container.

8. Exposure controls/personal protection

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Wear appropriate
Other chemical resistant clothing.
Respiratory protection In case of insufficient ventilation, wear suitable respiratory
Thermal hazards equipment. Not available.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.
Form Cream
Color White
Odor Not available
Odor threshold Not available
pH 6.5 - 7.5 (10% in H₂O)
Melting point/freezing point 34 °F (1.11 °C)
Initial boiling point and boiling range Not available

Flash point > 201.0 °F (> 93.9 °C) Pensky-Martens Closed Cup

Evaporation rate Estimated slower than ethyl ether.

Flammability (solid, gas) Not available

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not determined or unknown.

Vapor density Not available

Vapor density Not available.

Solubility(ies) Not available.

Solubility (water) Soluble.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

| | |
|--------------------------|-------------------|
| Viscosity | 12200 cP @ 25C |
| Other information | |
| Density | 8.50 lb/gal @ 25C |
| Pour point | 65-67% |

10. Stability and reactivity

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| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. Avoid heat, sparks, open flames and other ignition sources. |
| Conditions to avoid incompatible materials | Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| Hazardous decomposition products | Strong oxidizing agents. Strong acids. Upon decomposition, this product may yield sulfur dioxide and oxides of sulfur. |

11. Toxicological information

Information on likely routes of exposure

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| Inhalation | Prolonged inhalation may be harmful |
| Skin contact | Causes skin irritation |
| Eye contact | Causes serious eye damage. Expected to be a low ingestion hazard |
| Ingestion | |

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| Symptoms related to the physical, chemical and toxicological characteristics | Not available |
|---|---------------|

Information on toxicological effects

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|--|--|
| Acute toxicity | Not available |
| skin corrosion/irritation | Causes skin irritation |
| Serious eye damage/eye irritation | Causes serious eye damage |
| Respiratory or skin sensitization | |
| Respiratory sensitization | Not available. |
| Skin sensitization | This product is not expected to cause skin sensitization. |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

US. National Toxicology Program (NTP) Report on Carcinogens

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA
Not listed

Not regulated

Not listed

Reproductive toxicity

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Aspiration hazard

Contains no ingredient listed as toxic to reproduction Not applicable.

Not applicable.

Not applicable.

12. Ecological information

Ecotoxicity

Harmful to aquatic life with long lasting effects

| Product | Species | Test Results |
|--------------|---------|--------------------|
| TIDY PEARL 2 | | |
| Aquatic | | |
| Acute | LC5 | Fish |
| Fish | 0 | |
| 9.80 | 93 mg/l | 96 hours estimated |

Persistence and degradability
Bioaccumulative potential

Mobility in soil Other adverse effects

Readily biodegradable.

No data available.

No data available

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

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| Disposal instructions | Dispose in accordance with all applicable regulations. |
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Waste from residues / unused | <p>Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).</p> <p>Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.</p> |

14. Transport information

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|---|-----------------------------------|
| DOT | Not regulated as dangerous goods |
| IATA | Not regulated as dangerous goods. |
| IMDG | |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not available |
| DOT: IATA; IMDG | |

15. Regulatory information

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| US federal regulations | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. |
| TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) | Not regulated. |
| CERCLA Hazardous Substance List (40 CFR 302.4) | |
| Diethanolamine (CAS 111-42-2) | Not listed. |
| SARA 304 Emergency release notification | Not regulated |
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) | Not regulated. |
| Superfund Amendments and | |

| | |
|---|--|
| Reauthorization Act of 1986 (SARA) | |
| SARA 302 Extremely hazardous substance | Not listed. |
| SARA 311/312 Hazardous chemical | Yes |
| Classified hazard Categories | Skin corrosion or irritation Serious eye damage or eye irritation |
| SARA 313 (TRI reporting) | Not regulated |
| Other federal regulations | |
| Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List | Not regulated |
| Clean Air Act (CAA) Section 112 (r) Accidental Release Prevention (40 CFR 68.130) | Not regulated |
| Safe Drinking Water Act (SDWA) | Not regulated |
| Listed date/Carcinogenic substance | Diethanolamine (CAS 111-42-2) |
| Listed date/Developmental toxin | Listed: June 22, 2012 |
| California Proposition 65 – CRT | Listed date/Carcinogenic substance |
| 1,4-dioxane (CAS 123-91-1) | Listed: January 1, 1988 |
| Acetaldehyde (CAS 75-07-0) | Listed: April 1, 1988 |
| Ethylene oxide (CAS 75-21-8) | Listed: July 1, 1987 |
| Formaldehyde (CAS 50-00-0) | Listed: January 1, 1988 |
| California Proposition 65 – CRT | Listed date/Developmental toxin |
| Ethylene Glycol (CAS 107-21-1) | Listed: June 19, 2015 |
| Ethylene oxide (CAS 75-21-8) Listed | August 7, 2009 |
| Methanol (CAS 67-56-1) | Listed: March 16, 2012 |
| California Proposition 65 – CRT | Listed date/Female reproductive toxin |
| Ethylene oxide (CAS 75-21-8) | Listed: February 27, 1987 |
| California Proposition 65 – CRT | Listed date/Male reproductive toxin |
| Ethylene oxide (CAS 75-21-8) | Listed: August 7, 2009 |

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory (NZIoC) | No |
| Philippine | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| Taiwan | Taiwan Inventory (TCSI) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

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|----------------------|--|
| Issue date | 02-05-2018 |
| Revision date | 02-05-2023 |
| Version # | 04 |
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Identification: Recommended restrictions Hazard(s) identification:

Disposal Hazard(s) identification: Response

Hazard(s) identification: Supplemental information Composition / Information on Ingredients: Disclosure Overrides Physical & Chemical Properties: Multiple Properties

Transport Information: Material Transportation Information

Regulatory information: California Proposition 65

HazReg Data: International Inventories GHS: Classification