



SAFETY DATA SHEET

Sultrasoft Deo HC (N)

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200.

1. Identification

Product identifier

Product name Sultrasoft Deo HC (N)

Product number 7875/21472

Recommended use of the chemical and restrictions on use

Application Detergent. Cleaning agent. Dry Cleaning

Details of the supplier of the safety data sheet

Supplier UNXChristeyns, LLC
707 Arlington Blvd
Greenville, NC 27858
Tel: +1 252 756 8616
info@unxchristeyns.com

Manufacturer Cole & Wilson Ltd
Rutland Street
Bradford
West Yorkshire
BD4 7EA
T: 01274 393286
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info@colewilson.co.uk

Emergency telephone number

Emergency telephone +1 800 252 3924

National emergency telephone number +1 866 928 0789 Toll Free, +1 215 207 0061 Geographic, +1 202 464 2554 (US and Canada);
+52 55 5004 8763 (Mexico); +55 11 3197 5891 (Brazil); +56 2 2582 9336 (Chile);

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Eye Dam. 1 - H318

Environmental hazards Not Classified

Label elements

Hazard symbols



Signal word Danger

Hazard statements H318 Causes serious eye damage.

Sultrasoft Deo HC (N)

Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a poison center/ doctor.

Contains

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides

Other hazards

This product does not contain any substances classified as PBT or vPvB.

Hazards not otherwise classified (HNOC) Contains d-LIMONENE. May produce an allergic reaction.

3. Composition/information on ingredients

Mixtures

2-(2-butoxyethoxy) ethanol CAS number: 112-34-5	15-30%
Classification Eye Irrit. 2A - H319	
isotridecanol, ethoxylated (>=2.5 EO) CAS number: 69011-36-5	10-15%
Classification Eye Irrit. 2A - H319 Aquatic Chronic 3 - H412	
Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized CAS number: —	5-10%
Classification Skin Irrit. 2 - H315 Eye Irrit. 2A - H319	
Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides CAS number: 68424-85-1 M factor (Acute) = 10 M factor (Chronic) = 1	1-3%
Classification Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

Sultrasoft Deo HC (N)

<p>hexahydro-hexamethyl-cyclopenta-benzopyran</p> <p>CAS number: 1222-05-5</p> <p>M factor (Acute) = 1 M factor (Chronic) = 1</p>	<1%
<p>Classification</p> <p>Aquatic Acute 1 - H400</p> <p>Aquatic Chronic 1 - H410</p>	
<p>SODIUM HYDROXIDE</p> <p>CAS number: 1310-73-2</p>	<1%
<p>Classification</p> <p>Met. Corr. 1 - H290</p> <p>Acute Tox. 4 - H302</p> <p>Skin Corr. 1A - H314</p> <p>Eye Dam. 1 - H318</p>	
<p>BENZYL SALICYLATE</p> <p>CAS number: 118-58-1</p>	0.036%
<p>Classification</p> <p>Eye Irrit. 2A - H319</p> <p>Skin Sens. 1B - H317</p> <p>Aquatic Chronic 3 - H412</p>	
<p>a-hexylcinnamaldehyde</p> <p>CAS number: 101-86-0</p> <p>M factor (Acute) = 1</p>	0.036%
<p>Classification</p> <p>Skin Sens. 1B - H317</p> <p>Aquatic Acute 1 - H400</p> <p>Aquatic Chronic 2 - H411</p>	
<p>COUMARIN</p> <p>CAS number: 91-64-5</p>	0.0099%
<p>Classification</p> <p>Acute Tox. 4 - H302</p> <p>Skin Sens. 1B - H317</p> <p>Aquatic Chronic 3 - H412</p>	
<p>Alpha-IsoMethyl Ionone</p> <p>CAS number: 127-51-5</p>	0.0099%
<p>Classification</p> <p>Aquatic Chronic 2 - H411</p>	

Sultrasoft Deo HC (N)

Benzyl acetate CAS number: 140-11-4	<1%
Classification Aquatic Chronic 3 - H412	
d-LIMONENE CAS number: 5989-27-5 M factor (Acute) = 1 M factor (Chronic) = 1	0.0099%
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	
EUGENOL CAS number: 97-53-0	0.0029%
Classification Eye Irrit. 2A - H319 Skin Sens. 1B - H317	
CITRONELLOL CAS number: 106-22-9	0.0029%
Classification Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1B - H317	
Linalool CAS number: 78-70-6	0.0029%
Classification Skin Sens. 1B - H317	
Diphenyl Ether CAS number: 101-84-8 M factor (Acute) = 1	<1%
Classification Eye Irrit. 2A - H319 Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412	

Sultrasoft Deo HC (N)

<p>Beta Pinene <1%</p> <p>CAS number: 127-91-3</p>
<p>Classification</p> <p>Flam. Liq. 3 - H226</p> <p>Skin Irrit. 2 - H315</p> <p>Skin Sens. 1 - H317</p> <p>Asp. Tox. 1 - H304</p>
<p>Alpha Pinene <1%</p> <p>CAS number: 80-56-8</p> <p>M factor (Acute) = 1 M factor (Chronic) = 1</p>
<p>Classification</p> <p>Flam. Liq. 3 - H226</p> <p>Acute Tox. 4 - H302</p> <p>Skin Irrit. 2 - H315</p> <p>Skin Sens. 1 - H317</p> <p>Asp. Tox. 1 - H304</p> <p>Aquatic Acute 1 - H400</p> <p>Aquatic Chronic 1 - H410</p>
<p>TURPENTINE, OIL <1%</p> <p>CAS number: 8006-64-2</p>
<p>Classification</p> <p>Flam. Liq. 3 - H226</p> <p>Acute Tox. 4 - H302</p> <p>Acute Tox. 4 - H312</p> <p>Acute Tox. 4 - H332</p> <p>Skin Irrit. 2 - H315</p> <p>Eye Irrit. 2A - H319</p> <p>Skin Sens. 1 - H317</p> <p>Asp. Tox. 1 - H304</p> <p>Aquatic Chronic 2 - H411</p>
<p>ISOPENTYL ACETATE <1%</p> <p>CAS number: 123-92-2</p>
<p>Classification</p> <p>Flam. Liq. 3 - H226</p>

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

General information

Get medical attention if symptoms are severe or persist. Remove affected person from source of contamination.

Inhalation

Unlikely route of exposure as the product does not contain volatile substances. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Ingestion

Never give anything by mouth to an unconscious person. Do not induce vomiting. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available. Get medical attention immediately.

Sultrasoft Deo HC (N)

Skin Contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.
Most important symptoms and effects, both acute and delayed	
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Spray/mists may cause respiratory tract irritation. This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	May cause sensitization or allergic reactions in sensitive individuals. May cause skin irritation. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
Eye contact	Severe irritation, burning and tearing.
Indication of immediate medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
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Special hazards arising from the substance or mixture

Specific hazards	No unusual fire or explosion hazards noted.
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Hazardous combustion products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors. Oxides of the following substances: Carbon. Nitrogen.
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Advice for firefighters

Protective actions during firefighting	If risk of water pollution occurs, notify appropriate authorities. Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
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Environmental precautions

Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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Methods and material for containment and cleaning up

Methods for cleaning up	Absorb in vermiculite, dry sand or earth and place into containers. Flush spilled material into suitable retaining areas or container with large quantities of water. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.
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Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.
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Sultrasoft Deo HC (N)

7. Handling and storage

Precautions for safe handling

Usage precautions

Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Avoid contact with skin and eyes. Keep container tightly sealed when not in use.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage precautions

Keep above the chemical's freezing point to avoid rupturing the container. Keep container tightly closed.

Storage class

Chemical storage.

Specific end uses(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.

8. Exposure controls/Personal protection

Control parameters

Occupational exposure limits

2-(2-butoxyethoxy) ethanol

Long-term exposure limit (8-hour TWA): ACGIH 10 ppm 67.5 mg/m³ inhalable fraction and vapor

SODIUM HYDROXIDE

Ceiling exposure limit: ACGIH 2 mg/m³

Long-term exposure limit (8-hour TWA): OSHA 2 mg/m³

Benzyl acetate

Long-term exposure limit (8-hour TWA): ACGIH 10 ppm 61 mg/m³

A4

Diphenyl Ether

Long-term exposure limit (8-hour TWA): ACGIH 1 ppm vapor

Short-term exposure limit (15-minute): ACGIH 2 ppm vapor

Long-term exposure limit (8-hour TWA): OSHA 1 ppm 7 mg/m³ vapor

Beta Pinene

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm

A4, DSens

Alpha Pinene

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 112 mg/m³

A4, DSens

TURPENTINE, OIL

Long-term exposure limit (8-hour TWA): OSHA 100 ppm 560 mg/m³

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 112 mg/m³

A4, DSens

ISOPENTYL ACETATE

Long-term exposure limit (8-hour TWA): OSHA 100 ppm 525 mg/m³

Long-term exposure limit (8-hour TWA): ACGIH 50 ppm 266 mg/m³

Short-term exposure limit (15-minute): ACGIH 100 ppm 532 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

A4 = Not Classifiable as a Human Carcinogen.

DSens = Dermal sensitizer.

Exposure controls

Sultrasoft Deo HC (N)

Protective equipment



Appropriate engineering controls	Provide adequate ventilation if the airborne contamination exceeds occupational exposure limits
Eye/face protection	Safety glasses with side-shields (EN 166).
Hand protection	Chemical resistant PVC/Nitrilrubber gloves (to European standard EN 374 or equivalent). Thickness: 0,4 mm. Penetration time: >480 min (level 6). The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Other skin and body protection	Wear suitable protective clothing (EN14605)
Hygiene measures	Do not eat, drink or smoke when using this product.
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid.
Color	Brown.
Odor	Perfume.
pH	pH (concentrated solution): 6.0 - 7.0
Initial boiling point and range	>100°C @ 760 mm Hg
Flash point	> 61°C Closed cup.
Relative density	0.97-1.03 @ 20°C
Solubility(ies)	Soluble in water.
Auto-ignition temperature	>200°C
Viscosity	280 cP @ 20°C
Other information	Not determined.

10. Stability and reactivity

Reactivity	The following materials may react with the product: Oxidizing agents. Reducing agents.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	No potentially hazardous reactions known.
Conditions to avoid	Avoid contact with: Oxidizing agents. Reducing agents.
Materials to avoid	Strong oxidizing agents. Strong reducing agents.
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors. Oxides of the following substances: Carbon. Nitrogen.

11. Toxicological information

Sultrasoft Deo HC (N)

Information on toxicological effects

Toxicological effects	Not regarded as a health hazard under current legislation.
Acute toxicity - oral	
Notes (oral LD ₅₀)	Based on available data the classification criteria are not met.
ATE oral (mg/kg)	22,083.33
Acute toxicity - dermal	
Notes (dermal LD ₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - inhalation	
Notes (inhalation LC ₅₀)	Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Skin corrosion/irritation	May cause skin irritation.
Animal data	Based on available data the classification criteria are not met.
Serious eye damage/irritation	
Serious eye damage/irritation	Causes serious eye damage.
Respiratory sensitization	
Respiratory sensitization	Based on available data the classification criteria are not met.
Skin sensitization	
Skin sensitization	May cause sensitization or allergic reactions in sensitive individuals.
Germ cell mutagenicity	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard	
Aspiration hazard	Based on available data the classification criteria are not met.
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Spray/mists may cause respiratory tract irritation. This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.
Skin Contact	The product contains a sensitizing substance. May cause skin irritation. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
Eye contact	Risk of serious damage to eyes. Symptoms following overexposure may include the following: Redness. Pain.

Sultrasoft Deo HC (N)

Acute and chronic health hazards This product may cause skin and eye irritation. Repeated exposure may cause chronic eye irritation. Mild dermatitis, allergic skin rash.

Route of exposure Skin and/or eye contact Ingestion Inhalation

Toxicological information on ingredients.

2-(2-butoxyethoxy) ethanol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,410.0

Species Mouse

ATE oral (mg/kg) 2,410.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,764.0

Species Rabbit

ATE dermal (mg/kg) 2,764.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 29.0

Species Rat

ATE inhalation (vapours mg/l) 29.0

Sorbitan monooleate, ethoxylated

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,001.0

Species Rat

ATE oral (mg/kg) 2,001.0

isotridecanol, ethoxylated (>=2.5 EO)

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,001.0

Species Rat

ATE oral (mg/kg) 5,001.0

Acute toxicity - dermal

ATE dermal (mg/kg) 2,001.0

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 50 mg/kg, Oral, Rat

Target organs Heart Liver Kidneys

Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized

Acute toxicity - oral

Sultrasoft Deo HC (N)

Acute toxicity oral (LD₅₀
mg/kg)

2,001.0

Species

Rat

ATE oral (mg/kg)

2,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg)

2,001.0

Species

Rat

ATE dermal (mg/kg)

2,001.0

Reproductive toxicity

Reproductive toxicity - fertility Fertility - NOAEL 1000 mg/kg, Oral, Rat

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides

Acute toxicity - oral

ATE oral (mg/kg)

500.0

hexahydro-hexamethyl-cyclopenta-benzopyran

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg)

4,640.0

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg)

6,500.0

Species

Rabbit

SODIUM HYDROXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg)

501.0

Species

Rabbit

ATE oral (mg/kg)

501.0

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8-Tetramethyl-2-naphthyl)Ethan-1-one

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg)

5,001.0

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg)

5,001.0

Species

Rabbit

ATE dermal (mg/kg)

5,001.0

hexyl-2-hydroxybenzoate

Sultrasoft Deo HC (N)

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 5,001.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,001.0

Species Rabbit

2-phenylethanol

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 1,790.0

Species Rat

ATE oral (mg/kg) 1,790.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 2,001.0

Species Rabbit

4-tertiary-butyl-cyclohexyl-acetate

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,001.0

Species Rabbit

ATE dermal (mg/kg) 5,001.0

BENZYL SALICYLATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 2,227.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 14,150.0

Species Rabbit

a-hexylcinnamaldehyde

Acute toxicity - oral

Sultrasoft Deo HC (N)

Acute toxicity oral (LD₅₀
mg/kg)

3,100.0

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg)

3,001.0

Species

Rabbit

ATE dermal (mg/kg)

3,001.0

COUMARIN

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg)

520.0

Species

Rat

ATE oral (mg/kg)

520.0

Carcinogenicity

IARC carcinogenicity

IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Alpha-IsoMethyl Ionone

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg)

5,001.0

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg)

5,001.0

Species

Rabbit

Benzyl acetate

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg)

2,490.0

Species

Rat

ATE oral (mg/kg)

2,490.0

Carcinogenicity

IARC carcinogenicity

IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Butylphenyl Methylpropional

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg)

1,390.0

Species

Rat

ATE oral (mg/kg)

500.0

Acute toxicity - dermal

Sultrasoft Deo HC (N)

Acute toxicity dermal (LD₅₀
mg/kg)

5,001.0

Species

Rabbit

d-LIMONENE

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg)

4,400.0

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg)

5,001.0

Species

Rabbit

Carcinogenicity

IARC carcinogenicity

IARC Group 3 Not classifiable as to its carcinogenicity to humans.

2,6-Dimethyl-7-octen-2-ol

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg)

3,600.0

Species

Rat

ATE oral (mg/kg)

3,600.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg)

5,001.0

Species

Rabbit

Vanillin

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg)

3,500.0

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg)

5,010.0

Species

Rabbit

ATE dermal (mg/kg)

5,010.0

a,a-Dimethylphenethyl Acetate

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg)

3,300.0

Species

Rat

Acute toxicity - dermal

Sultrasoft Deo HC (N)

Acute toxicity dermal (LD₅₀
mg/kg)

3,001.0

Species

Rabbit

Gamma-Undecalactone

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg)

2,001.0

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg)

2,001.0

Species

Rabbit

ATE dermal (mg/kg)

2,001.0

Tetrahydro Linalool

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg)

5,001.0

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg)

5,001.0

Species

Rabbit

2-methyl-3-(4-isopropylphenyl) propanal

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg)

3,810.0

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg)

5,001.0

Species

Rat

2-Tertiary-Butylcyclohexylacetate

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg)

4,600.0

Species

Rat

ATE oral (mg/kg)

4,600.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg)

5,001.0

Species

Rabbit

Sultrasoft Deo HC (N)

ATE dermal (mg/kg) 5,001.0

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 468.5 mg/kg, Oral, Rat

Heliotropine

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,700.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,001.0

Species Rat

ATE dermal (mg/kg) 5,001.0

EUGENOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,130.0

Species Guinea pig

ATE oral (mg/kg) 2,130.0

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

CITRONELLOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,450.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,650.0

Species Rabbit

3a,4,5,6,7,7a-Hexahydro-4,7-Methano-1(3)-Inden-6-yl-Acetate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,001.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,001.0

Species Rabbit

BETA-IONONE

Sultrasoft Deo HC (N)

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 4,590.0

Species Rat

Linalool

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 2,790.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 2,000.0

Species Rabbit

METHYLUNDECANAL

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 5,001.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 10,001.0

Species Rabbit

Isobutenyl methyltetrahydropyran

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 4,300.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,001.0

Species Rabbit

Diphenyl Ether

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 5,001.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 7,941.0

Species Rabbit

Alpha Pinene

Sultrasoft Deo HC (N)

Acute toxicity - oral

ATE oral (mg/kg) 500.0

TURPENTINE, OIL

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 13.7

ATE inhalation (vapours mg/l) 13.7

12. Ecological information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

Toxicity Not considered toxic to fish.

Ecological information on ingredients.

2-(2-butoxyethoxy) ethanol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 2700 mg/l, Fish
LC₅₀, 96 hours: 1300 mg/l, *Lepomis macrochirus* (Bluegill)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >100 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants EC₅₀, 96 hours: > 100 mg/l, *Scenedesmus subspicatus*
EC₅₀, 96 hours: > 100 mg/l, *Scenedesmus subspicatus*

Acute toxicity - microorganisms EC₁₀, 0.5 hour: > 1995 mg/l, Activated sludge
EC₅₀, : 255 mg/l, Activated sludge

Sorbitan monooleate, ethoxylated

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >100 mg/kg, *Carassius auratus* (Goldfish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >100 mg/kg, *Daphnia magna*

isotridecanol, ethoxylated (>=2.5 EO)

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >1-10 mg/l, *Cyprinus carpio* (Common carp)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >1-10 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants EC₅₀, 72 hours: >1-10 mg/l, *Desmodesmus subspicatus*
EC₁₀, 72 hours: 0.6 mg/l, *Desmodesmus subspicatus*

Acute toxicity - microorganisms EC₅₀, : 140 mg/l, Activated sludge

Sultrasoft Deo HC (N)

Acute toxicity - terrestrial NOEC, : 220 mg/kg, Eisenia Fetida (Earthworm)

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, : 1.73 mg/l,

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 1.36 mg/l, Daphnia magna

Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1.91 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 2.23 mg/l, Daphnia

Acute toxicity - aquatic plants EC₅₀, 72 hours: 2.14 mg/l, Algae

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides

Acute aquatic toxicity

LE(C)₅₀ 0.01 < L(E)C₅₀ ≤ 0.1

M factor (Acute) 10

Acute toxicity - fish LC₅₀, 96 hours: 0.85 mg/l, Oncorhynchus mykiss (Rainbow trout)
NOEC, 28 days: 0.0322 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.016 mg/l, Daphnia
NOEC, 21 days: 0.025 mg/l, Daphnia

Acute toxicity - aquatic plants EC₁₀, 72 hours: 0.0025 mg/l, Selenastrum capricornutum
EC₅₀, 72 hours: 0.02 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms EC₂₀, 0.5 hours: 5 mg/l, Activated sludge

Chronic aquatic toxicity

M factor (Chronic) 1

hexahydro-hexamethyl-cyclopenta-benzopyran

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.9 mg/l, Daphnia

Acute toxicity - aquatic plants IC₈₀, 72 hours: >0.854 mg/l, Algae

Chronic aquatic toxicity

M factor (Chronic) 1

SODIUM HYDROXIDE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 35-189 mg/l, Fish
LC₅₀, 96 hours: 45.5 mg/l, Oncorhynchus mykiss (Rainbow trout)
LC₅₀, 96 hours: 125 mg/l, Freshwater fish

Sultrasoft Deo HC (N)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 40-240 mg/l, Daphnia magna

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-naphthyl)Ethan-1-one

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1.3 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.4 mg/l, Daphnia

Acute toxicity - aquatic plants EC₅₀, 72 hours: 2.6 mg/l, Algae

Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.028 mg/l, Daphnia

hexyl-2-hydroxybenzoate

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: >100 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.357 mg/l, Daphnia magna
EC₅₀, 96 hours: 0.39 mg/l, Daphnia magna, Freshwater invertebrates, Marinewater invertebrates

Acute toxicity - aquatic plants EC₅₀, 72 hours: 0.61 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

M factor (Chronic) 1

a-hexylcinnamaldehyde

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 1.7 mg/l, Fish

LC₅₀, 96 hours: 3.1 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 3.86 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 6.87 mg/l, Pseudokirchneriella subcapitata

d-LIMONENE

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 0.7 mg/l, Pimephales promelas (Fat-head Minnow)

LC₅₀, 96 hours: 0.8 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.4 mg/l, Daphnia magna
EC₅₀, 48 hours: 69.6 mg/l, Daphnia

Sultrasoft Deo HC (N)

Acute toxicity - aquatic plants NOEC, 96 hours: 4 mg/l,
ErC50, 72 hours: 8 mg/l, Desmodesmus subspicatus
NOEC, 72 hours: 2.62 mg/l, Desmodesmus subspicatus

Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity - aquatic invertebrates NOEC, 16 days: estimated 0.115 mg/l, Daphnia magna

Vanillin

Acute aquatic toxicity

Acute toxicity - fish LC50 Flow-through, 96 hours: 53-61.3 mg/l, Pimephales promelas (Fat-head Minnow)
LC50 semi-static, 96 hours: 57 mg/l, Pimephales promelas (Fat-head Minnow)
LC50 static, 96 hours: 88 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: 180 mg/l, Daphnia magna

Gamma-Undecalactone

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 6.13 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 5.85 mg/l, Daphnia

Acute toxicity - aquatic plants EC₅₀, 72 hours: 5.94 mg/l, Algae

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates EC10, 21 days: 1.02 mg/l, Daphnia

2-methyl-3-(4-isopropylphenyl) propanal

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: estimated >1 - 3 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 4.19 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours: 3.8 mg/l, Pseudokirchneriella subcapitata

EUGENOL

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

Hydrocarbons, C11-C13, Isoalkanes, <2% aromatics

Acute aquatic toxicity

Acute toxicity - fish LL0, 96 hours: 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EL0, 48 hours: 1000 mg/l, Daphnia magna

Acute toxicity - aquatic plants EL0, 72 hours: 1000 mg/l, Pseudokirchneriella subcapitata
NOELR, 72 hours: 1000 mg/l, Pseudokirchneriella subcapitata

7-Acetyl-1,1,3,4,4,6-hexamethyl tetralin

Acute aquatic toxicity

Sultrasoft Deo HC (N)

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 1

Cedr-8-enyl Methyl Ketone (Acetyl Cedrene)

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 1

METHYLUNDECANAL

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish NOEC, 96 hours: 0.11 mg/l, Oncorhynchus mykiss (Rainbow trout)
LC₅₀, 96 hours: 0.35 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.21 mg/l, Daphnia

Acute toxicity - aquatic plants NOEC, 72 hours: 0.089 mg/l, Pseudokirchneriella subcapitata
EC₅₀, 72 hours: 0.18 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

M factor (Chronic) 1

Diphenyl Ether

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Alpha Pinene

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 1

TURPENTINE, OIL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 29.0 mg/l, Freshwater fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 8.8 mg/l, Daphnia magna

Acute toxicity - aquatic plants NOEC, : 10 mg/l, Freshwater algae
EC₅₀, : 17.1 mg/l, Freshwater algae

Sultrasoft Deo HC (N)

Acute toxicity -
microorganisms

EC₅₀, : 736 mg/l,

Persistence and degradability

Ecological information on ingredients.

Sorbitan oleate

Persistence and degradability The product is biodegradable.

2-(2-butoxyethoxy) ethanol

Persistence and degradability The product is biodegradable. >70% Readily biodegradable

Biodegradation OECD 302B - Degradation 100%: 28 days

Sorbitan monooleate, ethoxylated

Biodegradation The product is biodegradable.
- 60%: > 28 days

Chemical oxygen demand 2200 mg O₂/g

isotridecanol, ethoxylated (≥2.5 EO)

Biodegradation OECD 301B - >60%: 28 days

Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized

Biodegradation - >70%: 56 days

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides

Biodegradation - >60%:

hexahydro-hexamethyl-cyclopenta-benzopyran

Persistence and degradability Not readily biodegradable.

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8-Tetramethyl-2-naphthyl)Ethan-1-one

Persistence and degradability Not readily biodegradable.

Biodegradation - 11%: 28 days

hexyl-2-hydroxybenzoate

Persistence and degradability Readily biodegradable.

Biodegradation OECD 301F - 43%: 28 days
Directive 67/548/EEC Annex V, C.4.D - Degradation 20%:

4-tertiary-butyl-cyclohexyl-acetate

Persistence and degradability Readily biodegradable.

Biodegradation - Degradation 75%:

α-hexylcinnamaldehyde

Persistence and degradability Readily biodegradable.

Sultrasoft Deo HC (N)

Biodegradation - 97%: 28 days

COUMARIN

Persistence and degradability Readily biodegradable.

d-LIMONENE

Persistence and degradability Not readily biodegradable.

Vanillin

Persistence and degradability Readily biodegradable.

Gamma-Undecalactone

Persistence and degradability Readily biodegradable.

Biodegradation - 82%: 28 days

Tetrahydro Linalool

Persistence and degradability Readily biodegradable.

Biodegradation Directive 67/548/EEC Annex V, C.4.C - Degradation 64%:
Directive 67/548/EEC Annex V, C.4.B - Degradation 100%:
Directive 67/548/EEC Annex V, C.4.F - Degradation >60%:

2-methyl-3-(4-isopropylphenyl) propanal

Persistence and degradability Readily biodegradable.

Biodegradation - 65.5%: 28 days

2-Tertiary-Butylcyclohexylacetate

Biodegradation Activated sludge - Degradation 43 %: ~ 28 days

METHYLUNDECANAL

Persistence and degradability Readily biodegradable.

Biodegradation Activated sludge - 62%: 28 days

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Ecological information on ingredients.

Sorbitan oleate

Bio-Accumulative Potential No potential for bioaccumulation.

2-(2-butoxyethoxy) ethanol

Bio-Accumulative Potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient log Pow: 1.00

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides

Partition coefficient log Kow: 2.88

Sultrasoft Deo HC (N)

hexahydro-hexamethyl-cyclopenta-benzopyran

Partition coefficient log Pow: 5.3

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-naphthyl)Ethan-1-one

Partition coefficient log Pow: 5.65

hexyl-2-hydroxybenzoate

Partition coefficient log Pow: 5.5 (30C)

α -hexylcinnamaldehyde

Partition coefficient log Pow: 5.3

d-LIMONENE

Partition coefficient log Kow: 2.78-5.03

Vanillin

Partition coefficient log Kow: 1.21

Gamma-Undecalactone

Partition coefficient log Pow: 3.6

Tetrahydro Linalool

Partition coefficient log Pow: 3.3

2-methyl-3-(4-isopropylphenyl) propanal

Partition coefficient log Pow: 3.4

2-Tertiary-Butylcyclohexylacetate

Bio-Accumulative Potential BCF: ~ 156, Oncorhynchus mykiss (Rainbow trout)

TURPENTINE, OIL

Partition coefficient log Kow: 4.49

Mobility in soil

Mobility Soluble in water.

Ecological information on ingredients.

2-(2-butoxyethoxy) ethanol

Adsorption/desorption coefficient - Koc: 2 @ 20°C

isotridecanol, ethoxylated (≥ 2.5 EO)

Adsorption/desorption coefficient Soil - Koc: > 5000 @ °C

Other adverse effects

Sultrasoft Deo HC (N)

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

Disposal methods Dispose of in accordance with Local Authority regulations as special waste according to The Control of Special Waste Regulations 1996.

EURAL Code

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number

UN No. (International) Not applicable.

UN proper shipping name

Proper shipping name (International) Not applicable.

Transport hazard class(es)

Transport Labels (International) No transport warning sign required.

Packing group

Packing group (International) Not applicable.

Environmental hazards

Environmentally Hazardous Substance
No.

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

Danish product registration number

Danish national regulations

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
Not listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
Not listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
Not listed.

SARA 313 Emission Reporting
The following ingredients are listed:

2-(2-butoxyethoxy) ethanol
1.0 %

Sultrasoft Deo HC (N)

CAA Accidental Release Prevention

Not listed.

FDA - Essential Chemical

Not listed.

FDA - Precursor Chemical

Not listed.

SARA (311/312) Hazard Categories

None

OSHA Highly Hazardous Chemicals

Not listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Not listed.

California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed:

2-(2-butoxyethoxy) ethanol

California Air Toxics "Hot Spots" (A-II)

Not listed.

California Directors List of Hazardous Substances

Not listed.

Massachusetts "Right To Know" List

Not listed.

Rhode Island "Right To Know" List

Not listed.

Minnesota "Right To Know" List

Not listed.

New Jersey "Right To Know" List

Not listed.

Pennsylvania "Right To Know" List

Not listed.

Inventories

US - TSCA

The following ingredients are listed:

Sorbitan monooleate, ethoxylated

isotridecanol, ethoxylated (>=2.5 EO)

Sorbitan oleate

2-(2-butoxyethoxy) ethanol

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-naphthyl)Ethan-1-one

Alpha-IsoMethyl Ionone

Gamma-Undecalactone

Tetrahydro Linalool

2-Tertiary-Butylcyclohexylacetate

Sultrasoft Deo HC (N)

3a,4,5,6,7,7a-Hexahydro-4,7-Methano-1(3)-Inden-6-yl-Acetate

DIHYDRO PENTAMETHYLINDANONONE

Butylphenyl Methylpropional

d-LIMONENE

hexyl-2-hydroxybenzoate

2,6-Dimethyl-7-octen-2-ol

hexahydro-hexamethyl-cyclopenta-benzopyran

4-tertiary-butyl-cyclohexyl-acetate

BENZYL SALICYLATE

a-hexylcinnamaldehyde

US - TSCA 12(b) Export Notification

Not listed.

16. Other information

Abbreviations and acronyms used in the safety data sheet TDG: The transport of dangerous goods act

IATA: International air transport association.
 ICAO: Technical instructions for the safe transport of dangerous goods by air.
 IMDG: International maritime dangerous goods.
 CAS: Chemical abstracts service.
 ATE: Acute toxicity estimate.
 LC₅₀: Lethal concentration to 50 % of a test population.
 LD₅₀: Lethal dose to 50% of a test population (median lethal dose).
 EC₅₀: 50% of maximal effective concentration.
 PBT: Persistent, bioaccumulative and toxic substance.
 vPvB: Very persistent and very bioaccumulative.

Revision comments

Revised classification.

Revision date

5/11/2023

Revision

3

Supersedes date

10/27/2022

SDS No.

7875/21472

Hazard statements in full

H226 Flammable liquid and vapor.
 H290 May be corrosive to metals.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 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.
 H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.