

NOVEL 18-20 Ethoxylate

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade name NOVEL 18-20 Ethoxylate
Synonyms Polyoxyethylated stearyl alcohol
Use Paint and Coatings
Company Sasol Chemicals (USA) LLC
 (an affiliate of Sasol Chemicals North America LLC)
Address 12120 Wickchester Lane, Houston, TX 77079
Telephone CHEMTREC North America Transportation Emergency (24-hr) (800) 424 9300
 CHEMTREC World Wide (703) 527-3887
 Other Emergencies (24-hr) (337) 494 5142
 SDS and Product Information (8:00am-4:30pm CST) (281) 588 3491
 Health and Safety Information (7:30am-4:00pm CST) (281) 588 3492
E-mail address SasolElectronicSDS@us.sasol.com

SECTION 2 HAZARDS IDENTIFICATION

OSHA/GHS Hazards Eye irritation Category 2A

LABEL ELEMENTS

Hazard symbols



Signal word Warning

Hazard statements H319 Causes serious eye irritation.

Precautionary statements

Prevention P264 Wash skin thoroughly after handling.
 P280 Wear eye protection/ face protection.

Response P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.

NOVEL 18-20 Ethoxylate

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Components</u> | <u>CAS-No.</u> | <u>Weight percent</u> |
|------------------------------|----------------|-----------------------|
| Stearyl Alcohol, ethoxylated | 9005-00-9 | 100 |

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

SECTION 4 FIRST AID MEASURES

- Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use.
- Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
- Ingestion** If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion NFPA Class IIIB combustible liquid.

Suitable extinguishing media Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO₂)

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

Further information Keep containers and surroundings cool with water spray. Do not use a solid water stream as it may scatter and spread fire. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up Evacuate personnel to safe areas. Remove all sources of ignition. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system.

NOVEL 18-20 Ethoxylate

SECTION 7 HANDLING AND STORAGE

Safe handling advice Take precautionary measures against static discharges.

Storage/Transport pressure Ambient

Load/Unload temperature 43 - 54 °C
109 - 129 °F

Storage and handling materials Suitable: Carbon steel coated with baked phenolic. Any moisture may cause rusting of carbon steel. If product is moisture free, uncoated carbon steel tanks.

Further information on storage conditions Mix thoroughly before use. When stored in the liquid form, ethoxylates should be padded with a dry inert gas, such as nitrogen, to prevent oxygen or air from entering the tank. Prolonged storage in the presence of air or oxygen may cause product degradation. Oxidation is not expected when stored under a nitrogen atmosphere. Inert gas blanket and breathing system needed to maintain color stability. Use dry inert gas having at least -40°C (-40°F) dew point.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Ensure adequate ventilation, especially in confined areas. Trace amounts of ethylene oxide may be present in the product and could accumulate in vapor spaces of storage or transport vessels.

PERSONAL PROTECTIVE EQUIPMENT

Eyes Wear as appropriate: Goggles, Face-shield

Skin Full protective clothing, chemical boots, and chemical gloves. High standards of skin care and personal hygiene should be exercised at all times.

Inhalation Use respirator when performing operations involving potential exposure to vapour of the product. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES

There are no exposure limits established for this product. Trace amounts of ethylene oxide may be present in this product., The ethylene oxide in this product is not expected to result in significant exposures or present a health hazard.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance Wax like;

Colour white

NOVEL 18-20 Ethoxylate

| | |
|---|--|
| Form | solid |
| Odour | sweet pungent |
| Odour Threshold | No data available |
| Flash point | ca. > 204 °C, > 400 °F; PM; |
| Flammability | Upper explosion limit: No data available Lower explosion limit: No data available |
| Boiling point/boiling range | ca. 116 °C, 240 °F; |
| Melting point/range | 46 °C, 115 °F; |
| Auto-ignition temperature | ca. > 371 °C, > 700 °F; |
| Decomposition temperature | No data available |
| Flammability (solid, gas) | No data available |
| Vapour pressure | No data available |
| Vapour density | ca. 33 - 37 |
| Density | 8.37 lb/gal @ 140 °C, 284 °F; |
| Relative density | 1.0201 @70 °C, 158 °F; |
| Water solubility | soluble |
| Viscosity | ca. 96.13 cSt @ 60 °C, 140 °F; |
| pH | No data available |
| Evaporation rate | No data available |
| Partition coefficient: n-octanol/water | No data available |

NOVEL 18-20 Ethoxylate

SECTION 10 STABILITY AND REACTIVITY

| | |
|---|--|
| Reactivity | Stable at normal ambient temperature and pressure. |
| Chemical stability | No decomposition if stored and applied as directed. |
| Conditions to avoid | Reacts slowly with air or oxygen. Storage under heated conditions in the presence of air or oxygen increases reaction rate. For example, after storing at 95°F/35°C for 30 days in the presence of air, there is measureable oxidation of the ethoxylate. Lower temperatures will allow for longer storage time and higher temperatures will shorten the storage time if stored under an air or oxygen atmosphere. |
| Hazardous decomposition products | When storing this product in air or oxygen, decomposition may occur, generating vapors which could be irritating. Ensure adequate ventilation, especially in confined areas. Oxidation is not expected when stored under a nitrogen atmosphere. |
| Materials to avoid | Can react with strong oxidizers, inorganic acids, and halogens. |
| Hazardous polymerisation | None. |

SECTION 11 TOXICOLOGICAL INFORMATION

| | |
|--|--|
| Additional Remarks | Data and classification obtained from the CESIO recommendation. Information given is based on data obtained from similar substances. |
| Acute dermal toxicity | LD50 Rabbit: > 2,000 mg/kg Category approach |
| Acute inhalation toxicity | LC50 value expected to exceed the saturated vapor concentration in air. |
| Acute oral toxicity | LD50 Rat: > 2,000 mg/kg Category approach |
| Skin corrosion/irritation | Primary irritation (Rabbit): 4 hours; 0.1 (Max. score is 8.0.) Not irritating |
| Serious eye damage/eye irritation | Primary irritation (Rabbit): 29.3 (Max. score is 110.) Causes serious eye irritation. |
| Respiratory or skin sensitisation | No data available |
| Germ cell mutagenicity | Genotoxicity in vitro: No data available |

NOVEL 18-20 Ethoxylate

Genotoxicity in vivo:

No data available

Assessment Mutagenicity:

No data available

Reproductive toxicity **Reproductive toxicity:**

No data available

Assessment Reproductive toxicity:

No data available

Teratogenicity:

No data available

Assessment teratogenicity:

No data available

STOT - single exposure No data available

STOT - repeated exposure .
No data available

Aspiration toxicity No data available

Carcinogenicity **Assessment carcinogenicity:**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Danio rerio (zebra fish)) 96 hours: 2.9 mg/l
Test substance: MARLIPAL 1618-25

Toxicity to aquatic invertebrates EC50 (Daphnia magna (Water flea)) 48 hours: 117 mg/l
Test substance: MARLIPAL 1618-25

Toxicity to algae ErC50 (Desmodesmus subspicatus (green algae)) 96 hours: > 990 mg/l
Test substance: MARLIPAL 1618-25

Chronic toxicity to fish No data available

Chronic toxicity to aquatic invertebrates No data available

Biodegradation Readily biodegradable.

NOVEL 18-20 Ethoxylate

OECD Test Guideline 301B (28 d): 85 %
Test substance: MARLIPAL 1618-25

Bioaccumulative potential No data available

Mobility in soil No data available

Other adverse effects No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Code Any unused product or empty containers may be disposed of as non-hazardous in accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. If the resulting material is determined to be hazardous, please dispose in accordance with state and federal (40 CFR 262) hazardous waste regulations.

Disposal methods Dispose of only in accordance with local, state, and federal regulations.

Empty containers. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

SECTION 14 TRANSPORT INFORMATION

DOT not regulated

IATA not regulated

IMDG not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks No data available

SECTION 15 REGULATORY INFORMATION

NOVEL 18-20 Ethoxylate

U.S. FEDERAL REGULATIONS

TSCA Inventory Listing

Components

Poly(oxy-1,2-ethanediyl), a-octadecyl-w-hydroxy-

All chemical substances in this product are either on the TSCA Active Inventory, or in compliance with the inventory.

CAS-No.

9005-00-9

SARA 302 Status

Components

CAS-No.

Weight percent

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Classification

Eye irritation

SARA 313 Chemical

Components

CAS-No.

Weight percent

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components

none

Reportable Quantity

Weight percent

INTERNATIONAL REGULATIONS

WHMIS Classification

Eye irritation

Category 2A

European Union

Classification according to Regulation (EU) 1272/2008.

Eye irritation, Category 2

Australia. Inventory of Chemical Substances (AICS)

Listed

Japan. Inventory of Existing and New Chemical Substances (ENCS)

Listed

Japan. ISHL - Inventory of Chemical Substances

Listed

Canada. Domestic Substances List (DSL) Inventory

Listed

Canada. Non-Domestic Substance Listing (NDSL)

Not listed

Philippines. Inventory of Chemicals / Chemical Substances (PICCS)

Listed

Korea. Existing Chemicals Inventory (KECI)

Listed



NOVEL 18-20 Ethoxylate

| | |
|---|--------|
| China. Inventory of Existing Chemical Substances (IECSC) | Listed |
| Mexico. National Inventory of Chemical Substances (INSQ) | Listed |
| New Zealand. Inventory of Chemical Substances (NZIoC) | Listed |
| Switzerland. Inventory of Notified New Substances (CHINV) | Listed |
| Taiwan. National Existing Chemical Inventory (NECI) | Listed |

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

STATE REGULATIONS

California Prop. 65

Components
Ethylene Oxide

CAS-No.
75-21-8

Sasol Chemicals (USA) LLC's ethoxylates may contain detectable quantities of ethylene oxide which is a chemical on the California Proposition 65 list. The level is typically below 1.0 ppm, although it may vary. The manufacturing process is controlled to reduce the residual ethylene oxide content.

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

| | <u>Health</u> | <u>Flammability</u> | <u>Physical Hazard/ Instability</u> |
|--------------|---------------|---------------------|---|
| HMIS® | 2 | 1 | 0 |
| NFPA | 2 | 1 | 0 |

THE DATA AND INFORMATION CONTAINED HEREIN ARE BEING FURNISHED FOR INFORMATIONAL PURPOSES ONLY, UPON THE EXPRESS CONDITION THAT EACH CUSTOMER SHALL MAKE ITS OWN ASSESSMENT OF APPROPRIATE USE AND APPROPRIATE SHIPPING, TRANSFER AND STORAGE MATERIALS AND PROCEDURES FOR SASOL CHEMICALS (USA) LLC'S PRODUCTS. ALTHOUGH BASED ON INFORMATION SOURCES WHICH SASOL CHEMICALS (USA) LLC CONSIDERS ACCURATE AND RELIABLE, SASOL CHEMICALS (USA) LLC MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, REGARDING THE VALIDITY OF THIS INFORMATION, THE INFORMATION SOURCES UPON WHICH THE SAME ARE BASED, OR THE RESULTS TO BE OBTAINED, AND EXPRESSLY DISCLAIMS LIABILITIES FOR DAMAGES OR INJURIES RESULTING FROM THE USE THEREOF.
