

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

Trade name NOVELUTION 390
Synonyms Ethoxylated Alcohol

Use Emulsifier, Industrial 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 Acute toxicity (Oral) Category 4
Hazards Serious eye damage Category 1

LABEL ELEMENTS

Hazard symbols



Signal word Danger

Hazard statements H302 Harmful if swallowed.

H318 Causes serious eye damage.

Precautionary statements

Prevention P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection/ face protection.

Response P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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P330 Rinse mouth.

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.

Disposal P501 Dispose of contents/ container to an approved waste disposal plant.

Additional advice This product may contain residual levels of alcohols which, even under normal handling

conditions, may smell and irritate the eyes, nose, and throats of some individuals.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

ComponentsCAS-No.Weight percentAlcohol EthoxylateProprietary100

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 Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

extinguishing media

Protective equipment and precautions for

Wear self-contained breathing apparatus for firefighting if necessary.

firefighters

Further information Keep containers and surroundings cool with water spray. Do not use a solid water stream

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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

materials for containment and cleaning up

Methods and 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.

HANDLING AND STORAGE **SECTION 7**

Safe handling advice Take precautionary measures against static discharges.

Storage/Transport

Ambient

pressure

Load/Unload 21 - 65 °C temperature 70 - 150 °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.

EXPOSURE CONTROLS/PERSONAL PROTECTION SECTION 8

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

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

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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 liquid;

Colour Clear to slightly hazy

Form liquid

Odour mild

Odour Threshold No data available

Flash point > 196 °C, 385 °F;

Flammability Upper explosion limit: No data available

Lower explosion limit: No data available

Boiling point/boiling estimated > 250 - 270 °C, > 481 - 518 °F;

range

Melting point/range 2.8 °C, 37 °F;

Auto-ignition No data available

temperature

Decomposition No data available

temperature

Flammability (solid, No data available

gas)

Vapour pressure < 1 mm Hg @ 20 °C, 68 °F;

Vapour density 20.8

Density 0.99 g/cm3 @ 40 °C, 104 °F;

Relative density No data available

Water solubility soluble

Viscosity 41 cSt @ 40 °C, 104 °F;

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рН 6 - 8

No data available Evaporation rate

Partition coefficient: n-

No data available

octanol/water

Volatile organic compounds (VOC)

2.38 %

content

SECTION 10 STABILITY AND REACTIVITY

Stable at normal ambient temperature and pressure. Reactivity

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 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.

products

Materials to avoid Can react with strong oxidizers, inorganic acids, and halogens.

Hazardous polymerisation None.

SECTION 11

TOXICOLOGICAL INFORMATION

Additional Remarks Information given is based on data obtained from similar substances.

Acute dermal toxicity No data available

> Acute inhalation LC50 value expected to exceed the saturated vapor concentration in air.

> > toxicity

Acute oral toxicity LD50 Rat: 300 - 2,000 mg/kg

(literature value)

Primary irritation (Rabbit): 4 hours; 4.1 - 4.6 (Max. score is 8.0.) Skin

corrosion/irritation Test substance: Alcohol Ethoxylate

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Serious eye

Primary irritation (Rabbit): 35.6 - 42.1 (Max. score is 110.)

Test substance: Alcohol Ethoxylate damage/eye irritation

Respiratory or skin

sensitisation

No data available

Germ cell mutagenicity Genotoxicity in vitro:

No data available

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: 12 mg/l; OECD Test Guideline 203

> > Test substance: Alcohol Ethoxylate

Toxicity to aquatic EC50 (Daphnia magna (Water flea)) 48 hours: 4.7 mg/l; OECD Test Guideline 202

invertebrates Test substance: Alcohol Ethoxylate

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Toxicity to algae ErC50 (Desmodesmus subspicatus (green algae)) 72 hours: 17 mg/l; OECD Test

Guideline 201

Test substance: Alcohol Ethoxylate

Chronic toxicity to No data available

fish

Chronic toxicity to No data available aquatic invertebrates

Biodegradation Readily biodegradable.OECD Test Guideline 301F (28 d): > 60 %

(10 day window met)

Bioaccumulative No data available

potential

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

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

Remarks No data available

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Inventory Listing

<u>CAS-No.</u>

Alcohol Ethoxylate Proprietary

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

SARA 302 Status

<u>Components</u> <u>CAS-No.</u> <u>Weight percent</u>

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

SARA 311/312 Classification

Should this product meet EPCRA 311/312 Tier reporting criteria of 40 CFR 370, refer to Section 2 of this SDS for appropriate classification and Section 3 for components that meet the hazardous classification.

SARA 313 Chemical

<u>Components</u> <u>CAS-No.</u> <u>Weight percent</u>

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)

<u>Components</u> <u>Reportable Quantity</u> <u>Weight percent</u>

none

INTERNATIONAL REGULATIONS

WHMIS Classification

Acute toxicity (Oral) Category 4
Serious eye damage Category 1

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European Union

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Classification according to Regulation (EU) 1272/2008.

Serious eye damage, Category 1 Acute toxicity (Oral), Category 4 Classified according to the CESIO recommendation.

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
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico. National Inventory of Chemical Substances (INSQ)	Not 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.

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SECTION 16	OTHER	INFORMA	TION

HAZARD RATINGS

			Physical Hazard/
	<u>Health</u>	<u>Flammability</u>	<u>Instability</u>
HMIS ®	3	1	0
NFPA	3	1	0

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