

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

Trade name NOVEL® 23E3 Ethoxylate

Synonyms Ethoxylated Alcohol

Use Detergent, Surfactant

Company Sasol Chemicals (USA) LLC

(an affiliate of Sasol Chemicals North America LLC)

Address 12120 Wickchester Lane Houston TX 77079

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 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

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SECTION 2 HAZARDS IDENTIFICATION

GHS Hazards

Eye irritation Category 2A
Acute aquatic toxicity Category 1
Chronic aquatic toxicity Category 3

LABEL ELEMENTS

Hazard symbols



Signal word Warning

Hazard statements H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention P264 Wash skin thoroughly after handling.

P280 Wear eye protection/ face protection. P273 Avoid release to the environment.

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.

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P337 + P313 If eye irritation persists: Get medical advice/ attention.

P391 Collect spillage.

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 percentAlcohols, C10-16, ethoxylated68002-97-1100

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 Wear self-contained breathing apparatus for firefighting if necessary.

and precautions for

firefighters

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.

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ACCIDENTAL RELEASE MEASURES SECTION 6

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.

SECTION 7 HANDLING AND STORAGE

Safe handling advice Take precautionary measures against static discharges.

Storage/Transport

pressure

Ambient

Load/Unload 15 - 38 °C temperature 59 - 100 °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

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.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid;

Colour Clear to slightly hazy

Form liquid

Odour sweet pungent

Odour Threshold no data available

Flash point 166 °C, 331 °F; PM;

Flammability Upper explosion limit: no data available

Lower explosion limit: no data available

approximately > 260 °C, > 500 °F;

Boiling point/boiling

range

Melting point/range -17 °C, 1.4 °F; ASTM D 97-66;

> **Auto-ignition** Not available

temperature

Decomposition

no data available; temperature

Flammability (solid, no data available

gas)

Vapour pressure < 0.1 psi @ 38 °C, 100 °F;

Vapour density 11.24

Density 0.9331 g/cm3 @ 20 °C, 68 °F;

Specific gravity no data available

Water solubility insoluble

> Viscosity 15.38 cSt @ 40 °C, 104 °F;

> > pН 6 - 8

Evaporation rate no data available

Partition coefficient: nno data available

octanol/water



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 Information given is based on data obtained from similar substances. Data and

classification obtained from the CESIO recommendation.

Acute dermal toxicity LD50 Rabbit: 3,000 mg/kg

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

toxicity

Acute oral toxicity LD50 Rat: 7,600 mg/kg

Skin Primary irritation (Rabbit): 4 hours; 0.1 - 0.7 (Max. score is 8.0.)

corrosion/irritation

Eye damage/irritation Primary irritation (Rabbit): 10.7 - 22.8 (Max. score is 110.)

Respiratory or skin no da

sensitization

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:

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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

no data available

exposure

Aspiration toxicity no data available

Carcinogenicity Ass

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

Aquatic toxicity Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 96 hours: 1.3 mg/l

Test substance: C1214-3 Ethoxylate

Toxicity to aquatic LC50 (Daphnia magna (Water flea)) 48 hours: 0.5 mg/l

invertebrates Test substance: C1214-3 Ethoxylate

Toxicity to algae EC10 (Scenedesmus) 72 hours: > 0.1 - 1 mg/l

Category approach

Chronic toxicity to no data available

fish

Chronic toxicity to no data available aquatic invertebrates

Biodegradation Readily biodegradable

OECD Test Guideline 301B (28 d): > 60 % Test substance: SAFOL® 23E3 Ethoxylate

Bioaccumulation no data available

Mobility in soil no data available

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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

UN 3082, Environmentally hazardous substance, liquid, n.o.s. (Alcohol C12-16 poly (1-6) ethoxylate), 9, III, Marine pollutant

This product is regulated as a hazardous material according to the Department of Transportation only in bulk quantities (greater than 119 gallons per package).

UN 3082, Environmentally hazardous substance, liquid, n.o.s.(Alcohol C12-16 poly (1-6)

ethoxylate), 9, III

This product is regulated as a dangerous good when shipped by air in all quantities according to IATA.

IMDG UN 3082, Environmentally hazardous substance, liquid, n.o.s., (Alcohol C12-16 poly (1-6)

ethoxylate), 9, III, Marine pollutant

This product is regulated as a Marine Pollutant when shipped by water in all quantities

according to the IMDG Code.

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

OSHA Hazards (HCS 1994)

no data available

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TSCA Inventory Listing

Components
Alcohols, C10-16, ethoxylated

CAS-No.
68002-97-1

SARA 302 Status

<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

"Immediate (acute) health hazard"

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

Class D, Division 2, Subdivision B: Toxic material.

European Union

This preparation contains at least one substance which is listed on the EU No Longer Polymer List.

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.

Eye irritation, Category 2
Acute aquatic toxicity, Category 1
Chronic aquatic toxicity, Category 3
Classified according to the CESIO recommendation.

Australia. Inventory of Chemical Substances (AICS)

Listed

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

Listed

Japan. Industrial Safety & Health Law (ISHL) Inventory

Listed

Canada. Domestic Substances List (DSL) Inventory

Listed

Canadian Non-Domestic Substance Listing (NDSL)

Not listed

European Inventory of Existing Commercial Chemical Substances

(EINECS) Listing

Philippines. Inventory of Chemicals / Chemical Substances (PICCS)

Listed

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Listed



Korea. Existing Chemicals Inventory (KECI)

China. Inventory of Existing Chemical Substances (IECSC)

Mexico. National Inventory of Chemical Substances (INSQ)

Not listed

New Zealand. Inventory of Chemicals (NZIoC)

Listed

Switzerland. Inventory of Notified New Substances (CHINV)

Listed

Taiwan. National Existing Chemical Inventory (NECI)

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

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

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