



EMULDAC 251 PE

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

Trade name	EMULDAC 251 PE	
Synonyms	Alkyl Polyglycol ether	
Use	Paper Chemical, Anti-foaming agent	
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

Not a hazardous substance or mixture according to OSHA HCS 2012.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Alcohols, C16-18, ethoxylated propoxylated	68002-96-0	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. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.
Ingestion	Do not induce vomiting without medical advice. Call a physician immediately. Never give anything by mouth to an unconscious person.

SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion NFPA Class IIIB combustible liquid.

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Suitable extinguishing media	Water spray or fog, foam, dry chemical, CO ₂ .
Protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and protective suit.
Further information	Keep containers and surroundings cool with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up	Remove all sources of ignition. Ensure adequate ventilation. 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.
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SECTION 7 HANDLING AND STORAGE

Safe handling advice	Normal measures for preventive fire protection.
Storage/Transport pressure	Ambient
Load/Unload temperature	Ambient
Further information on storage conditions	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. Heat stable up to 200°C (392°F) for short periods.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Ensure adequate ventilation, especially in confined areas. Trace amounts of ethylene oxide and propylene 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	Wear suitable protective clothing, gloves and eye/face protection.
Inhalation	Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection.

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EXPOSURE GUIDELINES

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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid;
Colour	colourless
Form	liquid
Odour	slight
Odour Threshold	No data available
Flash point	> 125 °C, 257 °F; PMCC;
Flammability	Upper explosion limit: Not available Lower explosion limit: Not available
Boiling point/boiling range	> 250 °C, 482 °F;
Melting point/range	approximately -7 °C, 19 °F;
Auto-ignition temperature	Not available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	< 0.0015 hPa @ 20 °C, 68 °F;
Vapour density	No data available
Density	0.984 g/cm ³ @ 20 °C, 68 °F;
Specific gravity	No data available
Water solubility	partly soluble Forms emulsion
Viscosity	No data available
Viscosity, dynamic	270 mPa.s @ 20 °C, 68 °F;

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pH	4 - 6 @ 20 °C, 68 °F;
Evaporation rate	No data available
Partition coefficient: n-octanol/water	No data available
Volatile organic compounds (VOC) content	0.6 % (EPA Method 24);

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	Stable under recommended storage conditions. Keep away from heat and sources of ignition.
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	Strong oxidizing agents
Hazardous polymerisation	None.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity	No data available
Acute inhalation toxicity	No data available
Acute oral toxicity	LD50 Rat: > 2,000 mg/kg
Skin corrosion/irritation	(Rabbit): OECD Test Guideline 404 slight irritation
Serious eye damage/eye irritation	(Rabbit): OECD Test Guideline 405 Not irritating
Respiratory or skin sensitisation	not sensitizing
Germ cell mutagenicity	Genotoxicity in vitro: No data available Genotoxicity in vivo:

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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 No data available

Toxicity to aquatic invertebrates (Daphnia magna (Water flea)) 48 hours; static test; OECD Test Guideline 202
In the range of water solubility not toxic under test conditions.

Toxicity to algae No data available

Chronic toxicity to fish No data available

Chronic toxicity to aquatic invertebrates No data available

Biodegradation Not readily biodegradable.

OECD Test Guideline 301B (28 d): < 60 %

Bioaccumulative potential BCF: 21.76; QSAR
Bioaccumulation is unlikely.

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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

U.S. FEDERAL REGULATIONS

OSHA Hazards (HCS 1994)
Non-hazardous substance

TSCA Inventory Listing

Components
Alcohols, C16-18, ethoxylated propoxylated

CAS-No.
68002-96-0

SARA 302 Status

Components

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

CAS-No.

Weight percent

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SARA 311/312 Classification
Non-hazardous substance

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

Reportable Quantity

Weight percent

none

INTERNATIONAL REGULATIONS

WHMIS Classification

WHMIS hazardous composition: No ingredients are hazardous according to the CPR criteria.

European Union

The product does not need to be labelled in accordance with EC directives or respective national laws.

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
Canada. Non-Domestic Substance Listing (NDSL)	Not listed
Europe. Inventory of Existing Commercial Chemical Substances (EINECS) Listing	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 Chemicals (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.



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STATE REGULATIONS

California Prop. 65

Components

Ethylene Oxide

Oxirane, 2-methyl-

CAS-No.

75-21-8

75-56-9

This product may contain detectable quantities of ethylene oxide and propylene oxide which are chemicals on the California Proposition 65 list. The levels are typically below 1.0 ppm, although they may vary. The manufacturing process is controlled to reduce the residual ethylene oxide and propylene oxide content.

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

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

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