

GLICERODAC WS 180 VG

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

Trade name	GLICERODAC WS 180 VG	
Synonyms	Alkyl polyethyleneglycol-propyleneglycol ether	
Use	Lubricant or lubricant additive, Metal Processing	
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>
Poly(oxy-1,2-ethanediyl), α,α',α'' -1,2,3-propanetriyltris[ω -hydroxy-	9082-00-2	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	Call a physician immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion NFPA Class IIIB combustible liquid.

Suitable extinguishing media Water spray Foam Dry chemical Carbon dioxide (CO₂)

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective suit.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up Remove all sources of ignition. Ensure adequate ventilation. Shovel or sweep up. Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

SECTION 7 HANDLING AND STORAGE

Safe handling advice Normal measures for preventive fire protection.

Storage/Transport pressure Ambient

Load/Unload temperature 20 °C
68 °F

Further information on storage conditions Mix thoroughly before use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines).

PERSONAL PROTECTIVE EQUIPMENT

Eyes Wear as appropriate:
Goggles Face-shield

Skin Wear suitable protective clothing, gloves and eye/face protection.

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Inhalation Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Use NIOSH approved respiratory protection.

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	clear
Form	viscous liquid
Odour	characteristic
Odour Threshold	No data available
Flash point	125 °C, 257 °F;
Flammability	Upper explosion limit: No data available Lower explosion limit: No data available
Boiling point/boiling range	250 °C, 482 °F;
Melting point/range	< 0 °C, < 32 °F;
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	< 0.15 hPa @ 20 °C, 68 °F;
Density	1.018 g/cm ³ @ 40 °C, 104 °F;
Water solubility	negligible

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Viscosity	No data available
Viscosity, dynamic	200 mPa.s @ 40 °C, 104 °F;
pH	5 - 7
Partition coefficient: n-octanol/water	No data available

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	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
Hazardous decomposition products	None.
Materials to avoid	None known..
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; OECD Test Guideline 401 Based on available data, the classification criteria are not met.
Skin corrosion/irritation	(Rabbit): OECD Test Guideline 404 Not irritating Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	(Rabbit): OECD Test Guideline 405 Not irritating Based on available data, the classification criteria are not met.

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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 The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure The substance or mixture is not classified as a specific target organ toxicant, repeated exposure.

Aspiration toxicity Not applicable

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 (Brachydanio rerio (zebrafish)) 96 hours: > 100 mg/l; semi-static test; OECD Test Guideline 203
Category approach

Toxicity to aquatic invertebrates EC50 (Daphnia magna (Water flea)) 48 hours: > 100 mg/l; static test; OECD Test Guideline 202

Toxicity to algae (Desmodesmus subspicatus (green algae)) : > 100 mg/l; static test; OECD Test Guideline 201

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Chronic toxicity to fish	No data available
Chronic toxicity to aquatic invertebrates	No data available
Toxicity to bacteria	EC50 (Pseudomonas putida) : 8900 mg/l; ISO 10712
Toxicity to soil dwelling organisms	No data available
Toxicity to terrestrial organisms	No data available
Biodegradation	OECD Test Guideline 301B Category approach
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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.

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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**TSCA Inventory Listing****Components**

Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)

CAS-No.

9082-00-2

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

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

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**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**

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

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European Union

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Australia. Inventory of Chemical Substances (AICS)	Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Not listed
Japan. ISHL - Inventory of Chemical Substances	Not 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)	Listed
New Zealand. Inventory of Chemical Substances (NZIoC)	Listed
Switzerland. Inventory of Notified New Substances (CHINV)	Not 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

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

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



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