

MARLOWET M 320 VG

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

Trade name MARLOWET M 320 VG
Synonyms Alcohols, C12-15- branched and linear, propoxylated
Use High Tech Industrial Applications, Lubricant or lubricant additive, Raw material for industry
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 Chronic aquatic toxicity Category 4

LABEL ELEMENTS

Hazard symbols None

Signal word None

Hazard statements H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements

Prevention P273 Avoid release to the environment.

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

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Alcohols, C12-15-branched and linear propoxylated	Not available	100

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

MARLOWET M 320 VG

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.

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.

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.

SECTION 7 HANDLING AND STORAGE

Safe handling advice Normal measures for preventive fire protection.

Storage/Transport pressure Ambient

Load/Unload temperature 40 °C
104 °F

MARLOWET M 320 VG

Further information on storage conditions Mix thoroughly before use. Prolonged storage in the presence of air or oxygen may cause product degradation. Oxidation is not expected when stored under a nitrogen atmosphere.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Ensure adequate ventilation, especially in confined areas.

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.

EXPOSURE GUIDELINES

There are no exposure limits established for this product. Trace amounts of propylene oxide may be present in this product., The propylene 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

Form viscous liquid

Odour characteristic

Odour Threshold No data available

Flash point > 150 °C, > 302 °F; ASTM D 93;

Flammability Upper explosion limit: No data available
Lower explosion limit: No data available

Boiling point/boiling range No data available

Melting point/range Pour point: -41 °C, -42 °F;

MARLOWET M 320 VG

Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	< 0.001 hPa
Vapour density	No data available
Density	0.986 g/cm ³ @ 25 °C, 77 °F;
Relative density	No data available
Water solubility	insoluble
Viscosity	320 mm ² /s @ 40 °C, 104 °F; ASTM D 7042;
Viscosity, dynamic	302 mPa.s @ 40 °C, 104 °F;
pH	4 - 7 (5% in water)
Evaporation rate	No data available
Partition coefficient: n-octanol/water	Not applicable
Molecular weight	3300 - 3700 g/mol

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	No decomposition if stored normally.
Materials to avoid	None known..

MARLOWET M 320 VG

Hazardous polymerisation None known.

SECTION 11 TOXICOLOGICAL INFORMATION

Additional Remarks	The product itself has not been tested.
Acute dermal toxicity	Based on available data, the classification criteria are not met.
Acute inhalation toxicity	No data available
Acute oral toxicity	LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 423 Category approach Based on available data, the classification criteria are not met.
Skin corrosion/irritation	(Rabbit): OECD Test Guideline 404 slight irritation Category approach Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	(Rabbit): OECD Test Guideline 405 slight irritation Category approach Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	not expected based on structure and functional groups
Germ cell mutagenicity	Genotoxicity in vitro: not expected based on structure and functional groups 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

MARLOWET M 320 VG

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 classified as specific target organ toxicant, repeated exposure, category 2.

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

Aquatic toxicity May cause long lasting harmful effects to aquatic life.

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 100 mg/l; OECD Test Guideline 203
Category approach

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

Toxicity to algae ErC50 (Selenastrum capricornutum (green algae)) 72 hours: > 100 mg/l; OECD Test Guideline 201
Category approach

Chronic toxicity to fish No data available

Chronic toxicity to aquatic invertebrates No data available

Biodegradation Not readily biodegradable.(28 d): < 60 %
Category approach

Bioaccumulative potential No data available

Mobility in soil No data available

MARLOWET M 320 VG

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

Alcohols, C12-15-branched and linear propoxylated

Exempt

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

CAS-No.

MARLOWET M 320 VG

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

Chronic aquatic toxicity

Category 4

European Union

Classification according to Regulation (EU) 1272/2008.

Chronic aquatic toxicity, Category 4

Australia. Inventory of Chemical Substances (AICS)

Not 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

Not listed

Canada. Non-Domestic Substance Listing (NDSL)

Not listed

Philippines. Inventory of Chemicals / Chemical Substances (PICCS)

Not listed

Korea. Existing Chemicals Inventory (KECI)

Not listed

China. Inventory of Existing Chemical Substances (IECSC)

Not listed

Mexico. National Inventory of Chemical Substances (INSQ)

Not listed

New Zealand. Inventory of Chemical Substances (NZIoC)

Not listed

Switzerland. Inventory of Notified New Substances (CHINV)

Not listed

MARLOWET M 320 VG

Taiwan. National Existing Chemical Inventory (NECI)

Not 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

Oxirane, 2-methyl-

CAS-No.

75-56-9

This product may contain detectable quantities of propylene 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 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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