

## MARLOX FK 57

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


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**Trade name** MARLOX FK 57  
**Synonyms** Alcohol Alkoxylate  
**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

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**SECTION 2 HAZARDS IDENTIFICATION**


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**OSHA/GHS Hazards** Eye irritation Category 2A

**LABEL ELEMENTS****Hazard symbols****Signal word** Warning**Hazard statements** H319 Causes serious eye irritation.**Precautionary statements**

**Prevention** P264 Wash skin thoroughly after handling.  
 P280 Wear eye protection/ face protection.

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

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**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

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<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Alcohols, C10-16, ethoxylated propoxylated	69227-22-1	100

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

**SECTION 4 FIRST AID MEASURES**

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- 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**

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**FLAMMABLE PROPERTIES**

**Fire/explosion** NFPA Class IIIB combustible liquid.

**Suitable extinguishing media** Water spray. Foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>).

**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**

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**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**

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- Safe handling advice** Normal measures for preventive fire protection.
- Storage/Transport pressure** Ambient
- Load/Unload temperature** 25 °C  
77 °F
- 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**

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**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**

Contains no substances with occupational exposure limit values.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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- Appearance** liquid
- Colour** colourless
- Form** liquid
- Odour** mild
- Odour Threshold** No data available
- Flash point** > 150 °C, > 302 °F;

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<b>Flammability</b>	Upper explosion limit: No data available Lower explosion limit: No data available
<b>Boiling point/boiling range</b>	No data available
<b>Melting point/range</b>	< -10 °C, < 14 °F;
<b>Auto-ignition temperature</b>	> 300 °C, > 572 °F;
<b>Decomposition temperature</b>	No data available
<b>Flammability (solid, gas)</b>	Not applicable
<b>Vapour pressure</b>	0.1 hPa @ 20 °C, 68 °F;
<b>Vapour density</b>	> 1
<b>Density</b>	1.0 g/cm <sup>3</sup> @ 20 °C, 68 °F;
<b>Relative density</b>	Not applicable
<b>Water solubility</b>	completely miscible
<b>Viscosity</b>	No data available
<b>pH</b>	5 - 7.5
<b>Evaporation rate</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available

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**SECTION 10 STABILITY AND REACTIVITY**

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<b>Reactivity</b>	Stable at normal ambient temperature and pressure.
<b>Chemical stability</b>	No decomposition if stored and applied as directed.
<b>Conditions to avoid</b>	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.

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**Hazardous decomposition products** No decomposition if stored normally.

**Materials to avoid** Strong acids and oxidizing agents.

**Hazardous polymerisation** None known.

### SECTION 11 TOXICOLOGICAL INFORMATION

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**Acute dermal toxicity** No data available

**Acute inhalation toxicity** No data available

**Acute oral toxicity** LD50 Rat: > 5,000 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  
Irritating.  
Causes serious eye irritation.

**Respiratory or skin sensitisation** not expected based on structure and functional groups

**Germ cell mutagenicity** **Genotoxicity in vitro:**  
Type: Ames test; OECD Test Guideline 471  
System: Salmonella typhimurium; with and without metabolic activation  
Result: not mutagenic

**Genotoxicity in vivo:**  
No data available

**Assessment Mutagenicity:**  
No data available

**Reproductive toxicity** **Reproductive toxicity:**  
This information is not available.

**Assessment Reproductive toxicity:**  
No data available

**Teratogenicity:**  
This information is not available.

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**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** This information is not available.

**Aspiration toxicity** No data available

**Carcinogenicity**
**Assessment carcinogenicity:**

No data available

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## SECTION 12 ECOLOGICAL INFORMATION

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**Toxicity to fish** No data available

**Toxicity to aquatic invertebrates** EC50 (Daphnia (water flea)) 48 hours: > 1 - 10 mg/l; static test; OECD Test Guideline 202

**Toxicity to algae** EC10 (Desmodesmus subspicatus (green algae)) 72 hours: > 1 - 10 mg/l; static test; OECD Test Guideline 201

EC50 (Desmodesmus subspicatus (green algae)) 72 hours: > 10 - 100 mg/l; static test; OECD Test Guideline 201

**Chronic toxicity to fish** No data available

**Chronic toxicity to aquatic invertebrates** No data available

**Toxicity to bacteria** EC50 (Pseudomonas putida) 17 hours: > 10000 mg/l; Cell multiplication inhibition test; ISO 10712

**Toxicity to soil dwelling organisms** LC50 (Eisenia fetida (earthworms)) 4 d: > 1,000 mg/kg artificial soil

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

**Bioaccumulative potential** No data available

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**Mobility in soil** No data available

**Other adverse effects** Based on available data, the classification criteria are not met.

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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**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**

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**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

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**SECTION 15 REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS****TSCA Inventory Listing****Components**

Alcohols, C10-16, ethoxylated propoxylated

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

**CAS-No.**

69227-22-1

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### 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

Eye irritation

Category 2A

### European Union

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)

Not 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)

Not listed

Taiwan. National Existing Chemical Inventory (NECI)

Listed



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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-  
Ethylene Oxide

##### CAS-No.

75-56-9  
75-21-8

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 10 ppm and 15 ppm respectively, although they may vary. The manufacturing process is controlled to reduce the residual ethylene oxide and propylene oxide content.

## SECTION 16 OTHER INFORMATION

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### HAZARD RATINGS

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

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