

MARLOX FK 86

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

Trade name MARLOX FK 86
Synonyms Alcohol Alkoxyate
Use Emulsifier, Industrial use, Lubricant or lubricant additive, Raw material for industry, Surfactant
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

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

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Alcohols, C10-12, ethoxylated propoxylated	68154-97-2	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** 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.

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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** 20 °C
68 °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

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

- Appearance** liquid;
- Colour** colourless
- Form** liquid
- Odour** mild
- Odour Threshold** No data available
- Flash point** 110 °C, 230 °F; DIN 51376;
- Flammability** Upper explosion limit: No data available

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	Lower explosion limit: No data available
Boiling point/boiling range	No data available
Melting point/range	-14 °C, 6.8 °F;
Auto-ignition temperature	350 °C, 662 °F;
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	< 0.1 hPa @ 20 °C, 68 °F;
Vapour density	> 1
Density	1 g/cm ³ @ 20 °C, 68 °F;
Specific gravity	Not applicable
Water solubility	@ 20 °C, 68 °F; completely miscible
Viscosity	No data available
Viscosity, dynamic	70 mPa.s @ 20 °C, 68 °F;
pH	5 - 7
Evaporation rate	No data available
Partition coefficient: n-octanol/water	log Pow: 3.29 - 4.27;

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.

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Materials to avoid None known.

Hazardous polymerisation None known.

SECTION 11 TOXICOLOGICAL INFORMATION

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

Skin corrosion/irritation (Rabbit): OECD Test Guideline 404
slightly irritating, Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation (Rabbit): OECD Test Guideline 405
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.

Assessment teratogenicity:
No data available

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

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STOT - repeated exposure This information is not available.

Aspiration toxicity No data available

Carcinogenicity

Assessment carcinogenicity:

No data available

Carcinogenicity ratings

SECTION 12 ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Cyprinus carpio (Carp)) 96 hours: > 1 - 10 mg/l; semi-static test; OECD Test Guideline 203
Category approach

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: > 1 - 10 mg/l; static test; OECD Test Guideline 201

Chronic toxicity to fish No data available

Chronic toxicity to aquatic invertebrates No data available

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

Bioaccumulative potential : BCF: 13 - 68;
calculated, low bioaccumulation potential

Mobility in soil Koc: 50 - 174
low mobility in soils, Mobile in soils

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

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.

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, C10-12, ethoxylated propoxylated

CAS-No.

68154-97-2

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

SARA 311/312 Classification

"Immediate (acute) health hazard"

SARA 313 Chemical

Components

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.

CAS-No.

Weight percent

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US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components

none

Reportable Quantity

Weight percent

INTERNATIONAL REGULATIONS

WHMIS Classification

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

European Union

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	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)	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.

STATE REGULATIONS

California Prop. 65

Components

none

CAS-No.

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SECTION 16 OTHER INFORMATION

HAZARD RATINGS

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

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