



# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b>	<b>Kemtec F160-09 Frother</b>
<b>CHEMICAL FAMILY:</b>	Poly glycol ethers and sodium salts
<b>SYNONYMS:</b>	None
<b>MOLECULAR FORMULA:</b>	Mixture
<b>MOLECULAR WEIGHT:</b>	Mixture
<b>MANUFACTURER:</b>	Kemtec Mineral Processing • 131/15 Hall St • Port Melbourne • VIC
<b>PRODUCT INFORMATION:</b>	Tel: +61 3 9646 3833 • Fax: +61 3 9646 3933
<b>EMERGENCY PHONE:</b>	CHEMTREC • North America: +1.800.424.9300 • International: +1.703.527.3887
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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### OSHA REGULATED COMPONENTS

COMPONENT	CAS No.	% (w/w)	OSHA (PEL)	ACGIH (TLV)	Carcinogen
Sodium Methylate	124-41-4	<2%	NA	NA	NA

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

#### APPEARANCE AND ODOR

Color:	Dark liquid
Appearance:	Liquid
Odor:	Slight ether odor

#### STATEMENT OF HAZARD

N/A

## 4. FIRST AID MEASURES

<b>INGESTION:</b>	If swallowed, immediately drink water to dilute. Contact a physician if symptoms develop. ONLY induce vomiting at the instructions of a physician.
<b>SKIN CONTACT:</b>	Flush skin with water for 15 minutes. Contact a Physician if irritation develops.
<b>EYES CONTACT:</b>	Rinse immediately with plenty of water for 15 minutes. Contact a physician immediately.
<b>INHALATION:</b>	If inhaled, remove to fresh air.

## 5. FIREFIGHTING MEASURES

### EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTIONS

#### Extinguishing Media

Use foam, water, fog spray, CO<sub>2</sub> or dry chemicals for combating fires. Combustion releases toxic carbon monoxide and carbon dioxide.

#### Protective Equipment

NIOSH approved self-contained breathing apparatus should be used by fire fighting personnel. Wear full firefighting protective clothing. See MSDS Section 8 (Exposure Controls/personal Protection).

#### Special Hazards

Move containers away from fire and/or keep cool with water spray. May form peroxides of unknown stability.

## 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Avoid all skin contact with liquid. Use NIOSH approved protective clothing, respirator or mask, and eye protection. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/personal Protection).

### METHODS FOR CLEAN UP

Remove all source of ignition. Cover spills with some inert absorbent material. Collect large quantities in container or vacuum truck. Flush spill area with water. Dispose of in accordance with EPA rules and regulations.

### ENVIRONMENTAL PRECAUTIONS

Not available

## 7. HANDLING AND STORAGE

### HANDLING

#### Precautionary Measures

Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Avoid prolonged inhalation of vapors. Use adequate ventilation.

#### Special Handling Statements

None Known

### STORAGE

Store in tightly closed containers in a cool, well ventilated place. May be stored in stainless steel, polypropylene, or glass containers. Carbon steel acceptable for short-term storage and transport only. Avoid contact with brass, copper, PVC, zinc, or galvanized materials. Epoxies, phenolics, rubber, and fiberglass are not recommended.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### ENGINEERING CONTROLS

Utilize a closed system process when available. If not available, provide adequate ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES:** Prevent eye and skin contact. Wear protective equipment for operations where eye or skin contact is possible. Eyewash equipment and safety shower should be provided in areas of potential exposure.

**SKIN:** Avoid skin contact. Wear impermeable gloves and suitable protective clothing.

**RESPIRATORY PROTECTION:** Where exposures are below the established exposure limit, no respiratory protection is required. Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure.

### ADDITIONAL ADVICE

Food, beverage and tobacco products should not be carried, stored or consumed where this material is used. Before eating, drinking, or smoking, wash face and hands with soap and water.

### EXPOSURE GUIDELINES:

Dipropylene glycol methyl ether: ACGIH TLV and OSHA PEL are 100ppm TWA, 150ppm STEL. PELs are in accord with those recommended by OSHA, 1989 revisions.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE AND ODOR:</b>	Dark liquid with slight ether odor
<b>BOILING POINT:</b>	356°F (180°C)
<b>FREEZING POINT:</b>	-22°F (-30°C)
<b>VAPOR PRESSURE:</b>	Approximately 0.3mm Hg at 70°F (21°C)
<b>SPECIFIC GRAVITY:</b>	1.05
<b>VAPOR DENSITY:</b>	5 (air = 1)
<b>% VOLATILE (BY WT.):</b>	Not available
<b>pH:</b>	7 - 10 (5% aqueous solution)
<b>SATURATION IN AIR (% by Vol):</b>	Not applicable
<b>EVAPORATION RATE:</b>	Not applicable
<b>SOLUBILITY IN WATER:</b>	High miscibility
<b>VOLATILE ORGANIC CONTENT:</b>	Not available
<b>FLASH POINT:</b>	>330 F° (166°C) TCC
<b>FLAMMABLE LIMITS (% BY VOL.):</b>	Not available
<b>AUTOIGNITION TEMPERATURE:</b>	Not available
<b>DECOMPOSITION TEMPERATURE:</b>	Not available
<b>PARTIAL COEFFICIENT (n-octanol/water):</b>	Not available
<b>ODOR TRESHOLD:</b>	See Section 2 for exposure limits

## 10. STABILITY AND REACTIVITY

<b>STABILITY:</b>	Stable
<b>CONDITIONS TO AVOID:</b>	Do not expose to strong oxidizing agents or excessive heat.
<b>POLYMERIZATION:</b>	N/A
<b>CONDITIONS TO AVOID:</b>	None known
<b>INCOMPATIBLE MATERIALS:</b>	Avoid contact with oxidizing agents or excessive heat.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Carbon monoxide, carbon dioxide, Peroxides, oxides of sodium

## 11. TOXICOLOGICAL INFORMATION

Toxicological information on the regulated components of this product is as follows:

The LD<sub>50</sub> acute oral (rat) for Propanol,(2-methoxy-methylethoxy) is 5.3 g/kg., and for Tripropylene glycol is >5.3 g/kg.  
The LD<sub>50</sub> acute dermal (rabbit) for Propanol,(2-methoxy-methylethoxy) is > 2 g/kg., and for Tripropylene glycol is > 2g/kg.

Eye Irritability: This material is expected to cause burns.

Skin Irritability: This material is expected to cause burns.

Reproductive and Developmental Toxicity: Not known or reported to affect reproductive function or fetal development.

Tripropylene Glycol Monomethyl Ether: This chemical has been tested in the laboratory and no evidence of teratogenicity, embryotoxicity or fetotoxicity was seen.

Mutagenicity: Not known or reported to be mutagenic.

Carcinogenicity: This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

## 12. ECOLOGICAL INFORMATION

Behavior in sewage treatment plant: Obtain approval of relevant authorities prior to discharge.

General: Do not discharge product unmonitored into the environment.

Propanol (2-methoxy-methylethoxy-) LC<sub>50</sub> Trout 96 hrs.: > 100 mg/L.

### 13. DISPOSAL CONSIDERATIONS

<b>RECOMMENDATIONS FOR THE PRODUCT:</b>	In accordance with regulations for special waste, product must be taken, after pretreatment, to an authorized special waste incineration plant.
<b>RECOMMENDATIONS FOR PACKAGING:</b>	Packaging that cannot be cleaned should be disposed of like the product.
<b>RECOMMENDED CLEANSING AGENT:</b>	Water

### 14. Transportation Information

	D.O.T. Shipping Information			IMO Shipping Information
<b>SHIPPING NAME:</b>	Not Applicable/Not Regulated			Not Applicable/Not Regulated
<b>HAZARD CLASS</b>	Not applicable			Not applicable
<b>PACKING GROUP:</b>	Not applicable			Not applicable
<b>UN/ID NUMBER:</b>	Not applicable			Not applicable
<b>IMDG PAGE:</b>	Not applicable			Not applicable
<b>DOT HAZARDOUS SUBSTANCE:</b>	Not applicable			Not applicable
<b>TRANSPORT LABEL REQUIRED:</b>	None required			None required
	ICAO/IATA			Transport Canada
<b>SHIPPING NAME:</b>	Not Applicable/Not Regulated			Not Applicable/Not Regulated
<b>HAZARD CLASS:</b>	Not applicable			Not applicable
<b>SUBSIDIARY CLASS:</b>	Not applicable			Not applicable
<b>UN/ID NUMBER:</b>	Not applicable			Not applicable
<b>PACKING GROUP:</b>	Not applicable			Not applicable
<b>TRANSPORT LABEL REQUIRED:</b>	Not applicable			Not applicable
<b>PACKING INSTRUCTIONS/ MAXIMUM NET QUANTITY:</b>	PASSENGER	Not app.	Not app.	Not applicable
	CARGO	Not app.	Not app.	

#### ADDITIONAL TRANSPORTATION INFORMATION

Technical Name (N.O.S.):

## 15. REGULATORY INFORMATION

### INVENTORY INFORMATION

<b>United States (USA):</b>	All components of this product are included on the TSCA Inventory in compliance with the Toxic Substances Control Act, 15 U. S. C. 2601 et. seq.
<b>Canada:</b>	Components of this product have been reported to Environment Canada in accordance with subsection 25 of the Canadian Environmental Protection Act and are included on the Domestic Substances List.
<b>European Union (EU):</b>	All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or the "No Longer Polymer" list in compliance with Council Directive 67/548/EEC and its amendments.

### OTHER ENVIRONMENTAL INFORMATION

Extremely Hazardous Substance Section 302-Threshold Planning as above.  
 SUPPLIER NOTIFICATION REQUIREMENTS, 313 REPORTABLE COMPONENTS:

- Triethylene glycol monoethyl ether (glycol ethers category)
- Triethylene glycol monobutyl ether (glycol ethers category)
- Diethylene glycol monoethyl ether (glycol ethers category)
- Diethylene glycol monopropyl ether (glycol ethers category)
- Diethylene glycol monobutyl ether (glycol ethers category)

CARCINOGENICITY CLASSIFICATION (components at 0.1% or more): None

WHMIS (Canada) STATUS: Controlled

WHMIS (Canada) HAZARD CLASSIFICATION: D2B

CLEAN AIR ACT SOCM1: Dipropylene glycol, Tripropylene glycol.

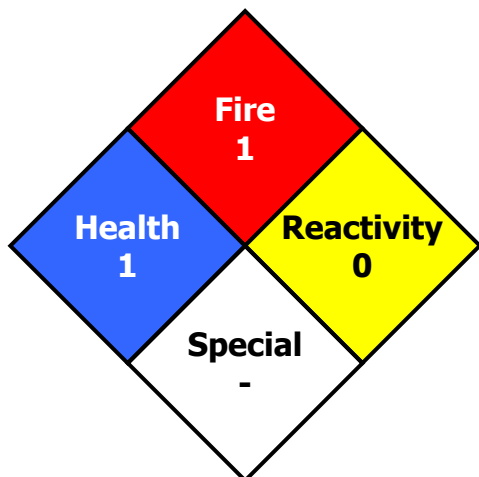
CLEAN AIR ACT VOC SECTION 111: (2-Methoxymethylethoxy)propanol; [(1-methyl-1,2-ethanediyl)bis(oxy)]bis-; Polypropylene glycol.

Component	CAS NO.	% (w/w)	TPQ (lbs)	RQ (lbs)	S313	TSCA 12B
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### PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA

ACUTE (Y)	CHRONIC (N)	FIRE (N)	REACTIVE (N)	PRESSURE (N)
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## 16. OTHER INFORMATION



### NFPA HAZARD RATING (National Fire Protection Association)

**FIRE:** Materials that must be preheated before ignition can occur.

**HEALTH:** Materials that, under emergency conditions, can cause significant irritation.

**REACTIVITY:** Materials that may undergo chemical changes at elevated temperatures and pressures.

**REASON FOR REVISION:** Change all Sections to reflect non hazardous, non dangerous classification

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