



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	KEMTEC F122 FROTHER
CHEMICAL FAMILY:	2-Ethylhexanol
SYNONYMS:	2-Ethyl hexyl alcohol
MOLECULAR FORMULA:	C ₈ H ₁₇ OH
MOLECULAR WEIGHT	130
MANUFACTURER:	Kemtec Pty Ltd, Suite 131/15 Hall St, Port Melbourne VIC 3207
PRODUCT INFORMATION:	Tel: +613 9646 3833 • Fax: +613 9646 3933
EMERGENCY PHONE:	INFOSAFE 1800 638 556 (all hours)
ISSUE DATE:	November 30, 2014

2. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA REGULATED COMPONENTS

COMPONENT	CAS No.	% (w/w)	OSHA (PEL)	ACGIH (TLV)	Carcinogen
2-ethylhexanol	104-76-7	80-99%	Not established	Not established	-

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR

Color:	Clear, colourless
Appearance:	Liquid
Odor:	Mild odor

STATEMENT OF HAZARD

WARNING! Combustible liquid and vapour. Irritating to eyes, skin and respiratory tract.

POTENTIAL HEALTH EFFECTS

EFFECTS / ROUTES OF EXPOSURE

LC50 (mg/kg) rabbit is 1970 and the LD50 (g/kg) rat is 2.04 respectively. Direct contact with this product can cause skin irritation. Direct contact with this product can cause eye burns. High vapour concentrations can lead to nervous system effects such as drowsiness, dizziness, headaches and loss of consciousness. Ingestion may cause gastrointestinal pain, diarrhea, weakness and collapse. The material is a pulmonary aspiration hazard. (See Section 11 for Toxicological Information).



4. FIRST AID MEASURES

INGESTION:	If swallowed. Call a physician immediately. ONLY induce vomiting at the instructions of a physician. Never give anything to an unconscious person.
SKIN CONTACT:	In case of skin contact, remove contaminated clothing without delay. Wear impervious gloves. Cleanse skin thoroughly with soap and water. Do not omit cleaning hair or under fingernails if contaminated. Do not reuse clothing without laundering.
EYE CONTACT:	In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.
INHALATION:	If inhaled, remove to fresh air. If not breathing, give artificial respiration and seek medical attention immediately. Oxygen should only be administered by trained personnel.

5. FIREFIGHTING MEASURES.

FLAMMABLE PROPERTIES

Flash Point:	183°F; (84°C), TCC
Flammable Limits in air % by volume	Lower: ~0.88 Upper: ~9.7
Auto ignition Temp:	550°F; (288°C)
Decomposition Temp:	212°F; (100°C)

EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTIONS

Extinguishing Media:	Use water, carbon or dry chemical to extinguish fires. Cool exposed equipment with water spray until well after fire is out.
Protective Equipment:	Wear self-contained, positive-pressure breathing apparatus and full firefighting protective clothing. See Section 8 (Exposure Controls/Personal Protection) for special protective clothing.
Special Hazards:	Cool exposed equipment with water spray until well after is out.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Contain the spill if possible. Where exposure level is not known, wear NIOSH approved, positive pressure, self-contained respirator. Where exposure level is known, wear NIOSH approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Exposure Control (Exposure Controls/Personal Protection), wear rain suit. Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush area with water.
METHODS FOR CLEAN UP:	Remove source of ignition. Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush spill area with water.
ENVIRONMENTAL PRECAUTIONS:	Dispose of in accordance with EPA rules and regulations.

7. HANDLING AND STORAGE

HANDLING

Precautionary Measures : Precautions should be taken to prevent electrostatic discharge. Hot water system recommended for temperature control when storage is at temperature below melting point.

Special Handling Statements : None known.

STORAGE

It is recommended to store product in carbon steel with effective moisture control, carbon steel coated with baked phenolic, fiberglass reinforced plastic with epoxy or polyester resin, or metallic zinc in an inorganic binder.

Storage Temperature:

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING MEASURES: Mechanical ventilation may be necessary if working with the product in enclosed areas or at elevated temperatures. Utilise a closed system process when available. If not available, provide adequate ventilation..

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapours.

EYE PROTECTION: When contact with product is possible, use face shield. Otherwise use safety glasses with side shields or goggles.

SKIN PROTECTION: Use full protective clothing, chemical boots and chemical gloves to prevent contact with skin.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR:	Colourless
APPEARANCE:	Liquid
ODOUR:	Mild odour
BOILING POINT:	360°F; (181-183°C)
MELTING POINT:	-105°F; (-76°C)
VAPOR PRESSURE:	0.5 mmHg @ 21°C
SPECIFIC GRAVITY:	0.83 @ 15°C
VAPOR DENSITY:	4.5 (air=1)
% VOLATILE (BY WT.):	100%
pH:	Not available
SATURATION IN AIR (% by Vol):	Not available
EVAPORATION RATE:	Not available
SOLUBILITY IN WATER:	0.1% @ 20°C
VOLATILE ORGANIC CONTENT:	Not available
FLASH POINT:	183°F; 84°C TCC
FLAMMABLE LIMITS (% BY VOL.):	Lower: ~1.2 Upper: ~8.0
AUTO IGNITION TEMPERATURE:	550°F; (288°C)
DECOMPOSITION TEMPERATURE:	212°F; 100°C
PARTIAL COEFFICIENT (n-octanol/water):	Not available
ODOR THRESHOLD:	See Section 2 for exposure limits

10. STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID:	Keep away from heat, spark and flame
POLYMERIZATION:	Will not occur
CONDITIONS TO AVOID:	None known
MATERIALS TO AVOID:	Avoid contact with strong oxidizing agents, inorganic acids and halogens.
HAZARDOUS DECOMPOSITION PRODUCTS:	None expected.

11. TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under SECTION 3: HAZARDS IDENTIFICATION

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

The acute oral (rat) and acute dermal (rabbit) LD50 values for this product are 2.04 g/kg and 1.97 g/kg, respectively. Direct contact with this product can cause skin irritation. Direct contact with this product can cause eye burns.

12. ECOLOGICAL INFORMATION

Physical-chemical degradability:	1-hexanol is biodegradable (1.2 g O ₂ uptake/g hexanol in 7 days in river water).
Behaviour in sewage treatment plant:	Obtain approval of relevant authorities prior to discharge
General:	Do not discharge product unmonitored into the environment
LC₅₀:	Flathead Minnows, 96 hour: 97.2mg/L

13. DISPOSAL CONSIDERATIONS

RECOMMENDATIONS FOR THE PRODUCT:	Dispose of product in accordance with local, state and federal laws and regulations. Do not contaminate any lakes, streams, ponds, ground water or soil..
RECOMMENDATIONS FOR PACKAGING:	DO NOT PRESSURISE, CUT, WELD, BRAZE, 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, properly bunged and properly returned to a drum re-conditioner, or properly disposed of.
RECOMMENDED CLEANSING AGENT:	Water



14. Transportation Information

This section provides basic shipping classification information.
 Refer to appropriate transportation regulations for specific requirements.

U.S. DOT				
PROPER SHIPPING NAME:	2-Ethyl hexyl alcohol			
HAZARD CLASS	3*			
PACKING GROUP:	III*			
UN/ID NUMBER:	NA1993*			
TRANSPORT LABEL REQUIRED:	Combustible liquid, N.O.S.*			
TECHNICAL NAME (N.O.S.):	2-Ethyl hexyl alcohol			
HAZARDOUS SUBSTANCE:	Not applicable			
COMMENTS:				
TRANSPORT CANADA				
PROPER SHIPPING NAME:	Not applicable			
HAZARD CLASS	Not applicable			
PACKING GROUP:	Not applicable			
UN/ID NUMBER:	Not applicable			
TRANSPORT LABEL REQUIRED:	None required			
TECHNICAL NAME (N.O.S.):	Not applicable			
ICAO/IATA				
PROPER SHIPPING NAME:	Not applicable			
HAZARD CLASS:	Not applicable			
PACKING GROUP:	Not applicable			
UN NUMBER:	Not applicable			
TRANSPORT LABEL REQUIRED:	None required			
PACKING INSTRUCTIONS/ MAXIMUM NET QUANTITY:	PASSENGER AIRCRAFT	309	N/A	
	CARGO AIRCRAFT	310	N/A	
TECHNICAL NAME (N.O.S.):	Not Applicable			
IMO				
PROPER SHIPPING NAME:	Not applicable			
HAZARD CLASS:	Not applicable			
UN NUMBER:	Not applicable			
PACKING GROUP:	Not applicable			
TRANSPORT LABEL REQUIRED:	Not applicable			
TECHNICAL NAME (N.O.S.):	Not applicable			

*Note: DOT class is non-regulated for packages containing less than 120 gallons.



15. REGULATORY INFORMATION

INVENTORY INFORMATION

United States (USA)	This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C 2601 et. Seq.
Canada	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.
European Union (EU)	All components of this product are include in the European Inventory of Existing Chemical Substances (EINECS) in compliance with Council Directive 67/548/EEC and its amendments.

OTHER ENVIRONMENTAL INFORMATION

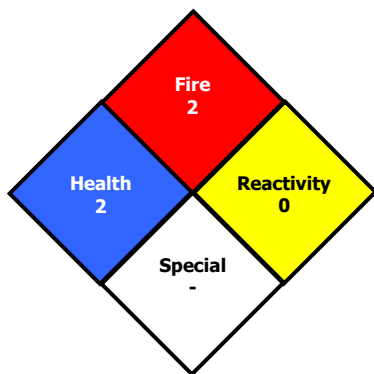
The following components of this product may be subject to reporting requirements pursuant to Section 313 of CERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.) See Section 13 for information on waste classification and waste disposal of this product.

Component	CAS NO.	% (w/w)	TPQ (lbs)	RQ (lbs)	S313	TSCA 12B
This product does not contain any components regulated under these sections of the EPA						

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA

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



NFPA HAZARD RATING (National Fire Protection Association)

HEALTH - 2 -	Materials that, under emergency conditions can cause serious or residual injury even through prompt medical treatment was given..
FIRE - 2 -	Materials that must be moderately heated or exposed to relatively high ambient temperature before ignition can occur.
REACTIVITY - 0 -	Materials that in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water.

REASON FOR REVISION: Emergency contact update

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Revised By: Nicole Watt

IMPORTANT: The above information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warrant, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular uses.