



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	KEMTEC FT1644 COLLECTOR
CHEMICAL FAMILY:	Modified Thionocarbamate
SYNONYMS:	None
MOLECULAR FORMULA:	C ₄ H ₉ OC(S)NHCOC ₆ H ₅
MOLECULAR WEIGHT	237.3
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
Modified Thionocarbamate	N/A	60-90%	Not Established	Not Established	Not Established

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR

Color: Clear to Yellow
Appearance: Liquid
Odor: Slight Pungent

STATEMENT OF HAZARD

WARNING! PROLONGED EXPOSURE CAN CAUSE GASTRO-INTESTINAL MAY CAUSE UNEASINESS

POTENTIAL HEALTH EFFECTS

EFFECTS / ROUTES OF EXPOSURE

The acute (rat) LD50, acute dermal (rabbit) LD 50 and estimated 4 hour inhalation (rat) LC 50 values for this material have not been investigated. Prolonged contact with this product or its solutions may cause alkaline skin irritation.



4. FIRST AID MEASURES

INGESTION:	Seek medical attention immediately.
SKIN CONTACT:	Remove contaminated clothing. Wash skin areas for 15 minutes or until chemical is removed with soap and water. Do not use solvents. Launder clothes before re-use.
EYE CONTACT:	Flush with copious amounts of water. If irritation persists, seek medical attention.
INHALATION:	Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms.
NOTE TO PHYSICIAN:	There is no specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
GENERAL ADVICE:	Avoid vapor concentration. Use adequate ventilation precautions should be taken to avoid skin/eye contact with any chemical substance.

5. FIREFIGHTING MEASURES.

EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTIONS

Extinguishing Media:	Foam, Water fog, carbon dioxide and dry chemical.
Protective Equipment:	Firefighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting protective clothing. See MSDS Section 8 (Exposure Controls/Personal Protection).
Special Hazards:	Use water spray to keep containers cool.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Where exposure level is known, wear approved respirator suitable for level of exposure. Where exposure level is not known, wear approved, positive pressure, self-contained respirator. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.
METHODS FOR CLEAN UP:	Stop spill at source. Eliminate all sources of ignition. Absorb with inert dry material.
ENVIRONMENTAL PRECAUTIONS:	Avoid release to the environment.

7. HANDLING AND STORAGE

HANDLING

Precautionary Measures :	Keep away from heat and flame. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Special Handling Statements :	High density polyethylene or stainless steel are compatible materials.

STORAGE

Store in a cool, dry, covered and well-ventilated area. Drums should be emptied carefully to avoid spillage.

Storage Temperature:	Room temperature Reason: Integrity
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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING MEASURES: Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure.

PERSONAL PROTECTIVE EQUIPMENT

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.

EYE PROTECTION: Wear eye/face protection such as chemical splash proof goggles or face shield. Eyewash equipment and safety shower should be provided in areas of potential exposure.

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

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:	Yellow liquid
APPEARANCE:	Liquid
ODOR:	Slight Pungent
BOILING POINT:	Not available
MELTING POINT:	Not applicable
VAPOR PRESSURE:	Heavier than air
SPECIFIC GRAVITY:	1.000 -1.1030 @ 20°C
VAPOR DENSITY:	Not available
% VOLATILE (BY WT.):	Not available
pH:	3.0 - 4.0
SATURATION IN AIR (% by Vol):	Not available
EVAPORATION RATE:	Not available
SOLUBILITY IN WATER:	Negligible
VOLATILE ORGANIC CONTENT:	Not available
FLASH POINT:	>179.6°F; 82°C TCC
FLAMMABLE LIMITS (% BY VOL.):	Not available
AUTO IGNITION TEMPERATURE:	Not available
DECOMPOSITION TEMPERATURE:	Not available
PARTIAL COEFFICIENT (n-octanol/water):	Not available
ODOR THRESHOLD:	See Section 2 for exposure limits

10. STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID:	None Known
POLYMERIZATION:	Will not occur
CONDITIONS TO AVOID:	None known
MATERIALS TO AVOID:	Strong acids, bases, oxidizers, high temperature
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide; carbon dioxide; oxides of nitrogen; oxides of sulfur (includes sulfur di and tri oxides)



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 toxicological properties of this product have not been established.

12. ECOLOGICAL INFORMATION

Biodegradability and environmental information on the product are not available.

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:

Packaging that cannot be cleaned should be disposed of like the product.

RECOMMENDED CLEANSING AGENT:

Water



14. Transportation Information

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

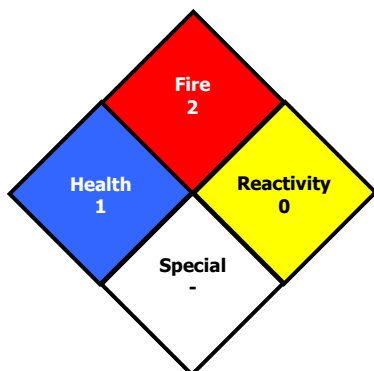
U.S. DOT				
PROPER SHIPPING NAME:	Not applicable			
HAZARD CLASS	Not applicable			
PACKING GROUP:	Not applicable			
UN/ID NUMBER:	Not applicable			
TRANSPORT LABEL REQUIRED:	None required			
TECHNICAL NAME (N.O.S.):	Not applicable			
HAZARDOUS SUBSTANCE:	Not applicable			
COMMENTS:				
TRANSPORT CANADA				
PROPER SHIPPING NAME:	NOT APPLICABLE/NOT REGULATED			
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/NOT REGULATED			
HAZARD CLASS:	Not applicable			
PACKING GROUP:	Not applicable			
UN NUMBER:	Not applicable			
TRANSPORT LABEL REQUIRED:	None Required			
PACKING INSTRUCTIONS/ MAXIMUM NET QUANTITY:	PASSENGER AIRCRAFT	Not applicable	Not applicable	
	CARGO AIRCRAFT	Not applicable	Not applicable	
TECHNICAL NAME (N.O.S.):	Not Applicable			
IMO				
PROPER SHIPPING NAME:	NOT APPLICABLE/NOT REGULATED			
HAZARD CLASS:	Not applicable			
UN NUMBER:	Not applicable			
PACKING GROUP:	Not applicable			
TRANSPORT LABEL REQUIRED:	None Required			
TECHNICAL NAME (N.O.S.):	Not applicable			

15. REGULATORY INFORMATION

INVENTORY INFORMATION

This product contains materials that are not listed on TSCA, DSL, EINICS or Australian Inventories.

16. OTHER INFORMATION



NFPA HAZARD RATING (National Fire Protection Association)

HEALTH - 1 -	Materials that, under emergency conditions can cause temporary incapacitation or residual injury.
FIRE - 2 -	Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
REACTIVITY - 0 -	Materials that in themselves are normally stable, even under fire exposure conditions.

REASON FOR REVISION: Emergency contact update

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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.