



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	KEMTEC FT X60-01 COLLECTOR
CHEMICAL FAMILY:	Modified Dithionocarbamate
SYNONYMS:	None
MOLECULAR FORMULA:	Mixture
MOLECULAR WEIGHT	Mixture
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
No OSHA Permissible Exposure Limits (PEL/TLV) have been established.					

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR

Color:	Pale yellow green to light brown
Appearance:	Liquid
Odor:	Slight sulfur order

STATEMENT OF HAZARD

WARNING! This material is an eye and skin irritant. Harmful if swallowed. May cause alcohol intolerance.

POTENTIAL HEALTH EFFECTS

EFFECTS / ROUTES OF EXPOSURE

EYE CONTACT: Causes moderate eye irritation. Symptoms can include redness, swelling, pain, tearing and hazy vision.

SKIN CONTACT: Causes moderate skin irritation. Symptoms can include redness, swelling, itching and dryness. Skin absorption may cause alcohol intolerance.

INHALATION: May cause mild respiratory irritation.

INGESTION: Harmful if swallowed. May cause irritation of the mouth, throat and stomach. May cause alcohol intolerance (Antabuse Effect).

4. FIRST AID MEASURES

INGESTION:	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
SKIN CONTACT:	In case of 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. Do not reuse contaminated leather ware.
EYE CONTACT:	IN case of eye contact, immediately irrigate with plenty of water for 15 minutes. Obtain medical attention without delay.
INHALATION:	Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms.
NOTE TO PHYSICIAN:	Exposure by injection, inhalation or skin adsorption may cause alcohol intolerance (Antabuse Effect). Treat symptomatically.
GENERAL ADVICE:	

5. FIREFIGHTING MEASURES.

EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTIONS

Extinguishing Media:	Use Water, carbon dioxide or dry chemical to extinguish fires.
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:	Decomposition in fire may produce toxic gases. Do not allow runoff to enter waterways. Product is not expected to burn unless all the water is boiled away.

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:	Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush area with water but do NOT flush to sewer!
ENVIRONMENTAL PRECAUTIONS:	Dispose of in accordance with EPA rules and regulations.

7. HANDLING AND STORAGE

HANDLING

Precautionary Measures :	Do not get in eyes, on skin, on clothing. Keep away from heat and flame. Wash thoroughly after handling.
Special Handling Statements :	Mixing with acids or aqueous solutions containing acids could result in release of toxic gas.
STORAGE	Partial crystallization may occur at low temperatures. Warm gently to dissolve solids. Store away from stron acids.
Storage Temperature:	10°C Reason: Crystallization

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

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: For operations where inhalation exposure can occur, use an approved respirator is recommended by an industrial hygienist after an evaluation of the operation. Where inhalation exposure can not occur, no respiratory protection is required. A full face piece respirator also provides eye and face protection when required. Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure.

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, chemicals 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:	Pale yellow green to light brown
APPEARANCE:	Liquid
ODOR:	Slight sulfur order
BOILING POINT:	Not available
MELTING POINT:	Not available
VAPOR PRESSURE:	2.2 kPa @ 20°C
SPECIFIC GRAVITY:	1.06 @ 20°C
VAPOR DENSITY:	Not available
% VOLATILE (BY WT.):	Not available
pH:	<11
SATURATION IN AIR (% by Vol):	Similar to water
EVAPORATION RATE:	Similar to water
SOLUBILITY IN WATER:	Complete
VOLATILE ORGANIC CONTENT:	Not available
FLASH POINT:	>200°F; 93°C Setflash Closed Cup
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), Hydrogen Sulphide



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:

Acute Oral LD50 (mg/kg): 650-1400 mg/kg (rat)

Carcinogenicity: Negative in standard tests using bacteria and/or yeast cells

12. ECOLOGICAL INFORMATION

Acute Fish Toxicity: 96 hr LC50 Guppy = 62-211 mg/l

13. DISPOSAL CONSIDERATIONS

RECOMMENDATIONS FOR THE PRODUCT: In accordance with regulations for special waste, product must be taken after pretreatment to an authorized special waste incineration plant.

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 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			
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	809	Not applicable	
	CARGO AIRCRAFT	813	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

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	This product contains components on the Domestic Substances List. These components have been reported in accordance with the subsection 26 of the Canadian Environment Protection Act.
European Union (EU)	Product is not included in the European Inventory of Existing Chemical Substances (EINECS). The product can be supplied in quantities less than 10kg/year according to Council Directive 67/548/EEC and its amendments.

OTHER ENVIRONMENTAL INFORMATION

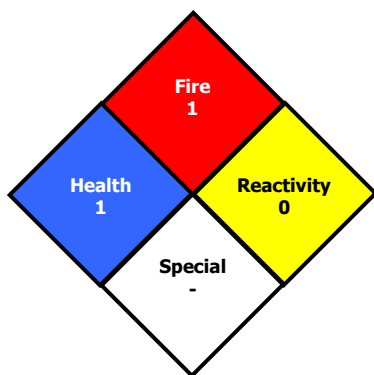
The following components of this product may be subject to reporting requirements pursuant to Section 313 of CERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.) See Section 13 for information on waste classification and waste 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)
WHMIS Classification: Not Controlled.				

16. OTHER INFORMATION



NFPA HAZARD RATING (National Fire Protection Association)

HEALTH - 1 -	Materials that must be preheated before ignition can occur.
FIRE - 1 -	Materials that must be preheated 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.