



# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b>	<b>KEMTEC FT2600LF COLLECTOR (sample)</b>
CHEMICAL FAMILY:	Sodium Diclesyl monothiophosphate
SYNONYMS:	Diclesyl Phosphoromonothioate
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
Sodium hydroxide	1310-73-2	0.5%	-	TLV = 2 mg/m <sup>3</sup> (ceiling)	-
Sodium Di Cresyl monothiophosphate	61792-48-1	50-60	-	TWA = N/A	-

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

#### APPEARANCE AND ODOR

Color: Clear, amber to dark  
Appearance: Liquid  
Odor: Sulphur odor

#### STATEMENT OF HAZARD

**DANGER!** CAUSES BURNS OF EYES AND SKIN

### POTENTIAL HEALTH EFFECTS

#### EFFECTS / ROUTES OF EXPOSURE

Contact with acid may cause liberation of hydrogen sulphide. Hydrogen sulphide has a strong rotten-egg odor, however some people are unable to smell the gas and exposure will deaden the sense of smell. Therefore, odor is an unreliable indicator of exposure.

**INGESTION:** N/A

**SKIN CONTACT:** This material may cause severe skin irritation.

**EYE CONTACT:** This material may cause severe eye irritation. Over exposure to hydrogen sulphide may cause severe eye irritation.

**INHALATION:** Over exposure to hydrogen sulphide gas may cause rapid development of coma and respiratory failure. Low levels of hydrogen sulphide gas may cause dizziness, headache, staggering gait, neurological damage and gastritis.

## 4. FIRST AID MEASURES

<b>INGESTION:</b>	Material is not expected to be harmful by injection. Only induce vomiting at the instruction of a physician.
<b>SKIN CONTACT:</b>	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.
<b>EYE CONTACT:</b>	In case of eye contact, immediately flush eyes with plenty o water for at least 15 minutes. Seek medical attention.
<b>INHALATION:</b>	Material is not expected to be harmful if inhaled. If inhaled, remove to fresh air.

## 5. FIREFIGHTING MEASURES.

### EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTIONS

<b>Extinguishing Media:</b>	Use water spray or fog, carbon dioxide or dry chemical to extinguish fires.
<b>Protective Equipment:</b>	Firefighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting protective clothing. See MSDS Section 8 (Exposure Controls/Personal Protection).
<b>Special Hazards:</b>	Sulphur dioxide or hydrogen sulphide may be formed under fire conditions. Do not flush to sewer with may contain acid. This could result in generation of toxic and explosive hydrogen sulphide gas.

## 6. ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PRECAUTIONS:</b>	Where exposure level is not known, wear NIOSH approved, positive pressure, self-contained respirator. Where the exposure level is known, wear NIOSH approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots and rain suit.
<b>METHODS FOR CLEAN UP:</b>	Cover spills with some inert absorbent material; sweep up and place in waste disposal container. Flush area with water.
<b>ENVIRONMENTAL PRECAUTIONS:</b>	Dispose of in accordance with EPA rules and regulations.

## 7. HANDLING AND STORAGE

### HANDLING

<b>Precautionary Measures :</b>	Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.
<b>Special Handling Statements :</b>	This product should not be mixed with acids or aqueous solutions containing acids since evolution of toxic and explosive hydrogen sulphide gas could result. This precaution does not, of course, apply to addition of this reagent to flotation pulps in amounts customarily used in flotation.

**STORAGE** N/A

**Storage Temperature:**

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**ENGINEERING MEASURES:** Utilise a closed system process where feasible. Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure. Mechanical ventilation may be necessary if working with product in enclosed areas or at elevated temperatures.

### 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, or when conditions cause excessive airborne levels of mists or vapours, 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

<b>COLOR:</b>	Clear, amber to dark
<b>APPEARANCE:</b>	Liquid
<b>ODOR:</b>	Slight sulphur
<b>BOILING POINT:</b>	Not available
<b>MELTING POINT:</b>	-21°C
<b>VAPOR PRESSURE:</b>	Similar to water at 25°C
<b>SPECIFIC GRAVITY:</b>	1.19
<b>VAPOR DENSITY:</b>	Similar to water
<b>% VOLATILE (BY WT.):</b>	Not available
<b>pH:</b>	11.0
<b>SATURATION IN AIR (% by Vol):</b>	Not available
<b>EVAPORATION RATE:</b>	Not available
<b>SOLUBILITY IN WATER:</b>	Complete
<b>VOLATILE ORGANIC CONTENT:</b>	Not available
<b>FLASH POINT:</b>	>200°F; 93.5°C TCC
<b>FLAMMABLE LIMITS (% BY VOL.):</b>	Not available
<b>AUTO IGNITION TEMPERATURE:</b>	Not available
<b>DECOMPOSITION TEMPERATURE:</b>	212°F; 100°C
<b>PARTIAL COEFFICIENT (n-octanol/water):</b>	<10
<b>ODOR THRESHOLD:</b>	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:** Avoid contact with strong oxidizing agents and mineral acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition or combustion (of dried solids) may produce carbon monoxide, carbon dioxide, sulphur oxides, hydrogen sulphide and/or oxides of phosphorus.

## 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 overexposure to sodium hydroxide mists or dusts cause severe respiratory irritation. A solution of sodium hydroxide can produce irreversible damage to eyes and skin. Direct contact with di cresyl monothiophosphate can cause skin corrosion and eye burns. Sodium di cresyl monothiophosphate has estimated acute oral (rat) and dermal (rabbit) LD50 value of greater than 1600 mg/kg and 2000 mg/kg, respectively.

## 12. ECOLOGICAL INFORMATION

<b>Physical-chemical degradability:</b>	N/A
<b>Behavior in sewage treatment plant:</b>	Obtain approval of relevant authorities prior to discharge
<b>General:</b>	Do not discharge product unmonitored into the environment
<b>LC<sub>50</sub>:</b>	Bluegill, 96 hour: 120mg/L Trout, 96 hour: 47mg/L Daphnia, 48 hour: 47mg/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

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

<b>U.S. DOT</b>				
PROPER SHIPPING NAME:	Not applicable			
HAZARD CLASS	Not applicable			
PACKING GROUP:	Not applicable			
UN/ID NUMBER:	Not applicable			
TRANSPORT LABEL REQUIRED:	Not applicable			
TECHNICAL NAME (N.O.S.):	Not applicable			
HAZARDOUS SUBSTANCE:	Not applicable			
COMMENTS:				
<b>TRANSPORT CANADA</b>				
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			
<b>ICAO/IATA</b>				
PROPER SHIPPING NAME:	Not applicable			
HAZARD CLASS:	Not applicable			
PACKING GROUP:	Not applicable			
UN NUMBER:	Not applicable			
TRANSPORT LABEL REQUIRED:	Corrosive			
PACKING INSTRUCTIONS/ MAXIMUM NET QUANTITY:	PASSENGER AIRCRAFT	809		
	CARGO AIRCRAFT	813		
TECHNICAL NAME (N.O.S.):	Not Applicable			
<b>IMO</b>				
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			



## 15. REGULATORY INFORMATION

### INVENTORY INFORMATION

<b>United States (USA)</b>	All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.
<b>Canada</b>	All components of this product are included on the Domestic Substance List (DSL) or are not required to be listed on the DSL.
<b>European Union (EU)</b>	All components of this product are included on the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.
<b>Australia</b>	All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on AICS.
<b>China</b>	All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.
<b>Japan</b>	All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese inventory.
<b>Korea</b>	All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory.
<b>Philippines</b>	All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine inventory.

### OTHER ENVIRONMENTAL INFORMATION

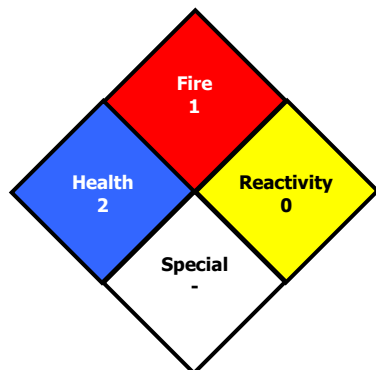
The following components of this product may be subject to reporting requirements pursuant to Section 313 of CERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.) See Section 13 for information on waste classification and waste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

Component	CAS NO.	% (w/w)	TPQ (lbs)	RQ (lbs)	S313	TSCA 12B
Sodium hydroxide	1310-73-2	0.5	None	1000	No	No

### 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)

<b>HEALTH</b> - 2 -	Materials that, under emergency conditions can cause temporary incapacitation or residual injury.
<b>FIRE</b> - 1 -	Materials must be preheated before ignition can occur.
<b>REACTIVITY</b> - 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

**Prepared By:** Kenneth Lee

**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.