



# MATERIAL SAFETY DATA SHEET

## CAT 4A RUST PREVENTIVE OIL

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>TRADE NAME</b>	CAT 4A RUST PREVENTIVE OIL
<b>PART No.</b>	Chemtool, 800310, 800311, 800312, Caterpillar, 1U-6525 DELETED, 1U-6526, 1U-8801
<b>SYNONYMS</b>	CAT 4A RUST PREVENTATIVE OIL, CAT RUST PREVENTATIVE OIL 4A
<b>PRODUCT USE</b>	Oil Based Rust Preventive Additive
<b>SUPPLIER</b>	Chemtool Incorporated P.O. Box 538 8200 Ridgefield Road Crystal Lake, IL 60039-0538 USA Tel: (815) 459-1250 Fax: (815) 459-1955
<b>EMERGENCY TELEPHONE</b>	Rocky Mountain Poison Center Denver, Colorado In USA and Canada - (800) 458-5924 Outside USA and Canada - +01-303-893-1322
<b>*Date of last issue</b>	2007-03-06

### 2. COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
*KEROSINE, PETROLEUM	8008-20-6	80-90 %
DICARBOXYLIC FATTY ACID, TALLOW DIAMINE SALTS	Proprietary	3-7 %
PARAFFIN WAXES, PETROLEUM, HYDROTREATED	64742-51-4	1-5 %
*BARIUM DINONYLNAPHTHALENE SULFONATE	Proprietary	1-5 %
*BENZENE, 1,2,4-TRIMETHYL- (COMMON NAME: PSEUDOCUMENE)	95-63-6	<0.9 %
*NAPHTHALENE	91-20-3	<0.9 %
*BENZENES, DIMETHYL- (COMMON NAME: XYLENES - MIXED ISOMERS)	1330-20-7	<0.5 %
*BIPHENYL, 1,1'-	92-52-4	<0.5 %
*BENZENE, ETHYL-	100-41-4	<0.5 %

\* This chemical(s) is hazardous according to OSHA/WHIMIS criteria

#### COMPOSITION COMMENTS

Refer to section eight for exposure limits on ingredients.  
Chemical ingredients not regulated by OSHA, SARA, state or federal agencies are treated confidentially.

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### 3. HAZARDS IDENTIFICATION

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#### EMERGENCY OVERVIEW

*	Flammable/Combustible Liquid. Irritating to skin. Harmful: may cause lung damage if swallowed.
<b>*HEALTH HAZARDS, GENERAL SENSITIZATION</b>	Prolonged exposure to product mist or vapors may cause respiratory irritation. No known information.
<b>*CARCINOGENICITY</b>	IARC: Not listed as a Group 1, 2A, or 2B agent. NTP: Not listed. See Section 11 for carcinogenicity data of ingredients.
<b>*TERATOGENICITY</b>	See section 11 for teratogenicity of ingredients.
<b>HEALTH WARNINGS</b>	SKIN CONTACT. Irritating. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Irritating. INHALATION. Spray mist can irritate airways and lungs. INGESTION. Can cause stomach ache and vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.
<b>ROUTE OF ENTRY</b>	Skin and/or eye contact. Ingestion. Inhalation.

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### 4. FIRST AID MEASURES

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<b>INHALATION</b>	Remove victim immediately from source of exposure. Get medical attention if any discomfort continues. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration.
<b>EYES</b>	Important! Immediately rinse with water for at least 15 minutes. Get medical attention if any discomfort continues.
<b>SKIN</b>	Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>INGESTION</b>	DO NOT induce vomiting. Get medical attention immediately.

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### 5. FIRE FIGHTING MEASURES

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<b>FLASH POINT (°C)</b>	56 (132°F) P/M Pensky-Martens.
<b>AUTO IGNITION TEMP. (°C)</b>	210-230 (410-446°F) AP
<b>FLAMMABILITY LIMIT - LOWER(%)</b>	0.7
<b>FLAMMABILITY LIMIT - UPPER(%)</b>	5.0
<b>FLAMMABILITY CLASS</b>	3.0 Combustible Liquid II - Flash Point equal to or greater than 100°F, but less than 140°F.
<b>EXTINGUISHING MEDIA</b>	Use: Dry chemicals, sand, dolomite etc. Foam. Carbon dioxide (CO2).
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Use water spray to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS</b>	Pressure will increase in over heated, closed containers.

**HAZARDOUS COMBUSTION PRODUCTS**

Acrid smoke/fumes. Hydrocarbons. Oxides of: Carbon. Nitrogen.

**PROTECTIVE MEASURES IN CASE OF FIRE**

Self-contained breathing equipment and chemical resistant clothing recommended.

**6. ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Minimize skin contact. Avoid breathing vapors. Wear an appropriate respirator if exposure exceeds recommended guidelines.

**PRECAUTIONS TO PROTECT THE ENVIRONMENT**

Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.

**SPILL CLEAN-UP PROCEDURES**

Contain spill. Neutralize and absorb small amounts. Collect and return large amounts to shipping container. Rinse spill area with water.

**7. HANDLING AND STORAGE****HANDLING PRECAUTIONS**

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Do not reuse container. Keep lid closed when not in use. Do not store or mix with strong oxidizers.

**STORAGE PRECAUTIONS**

Keep away from heat, sparks and open flame. Store separate from strong acids and oxidizers.

**STORAGE CRITERIA**

Chemical storage.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

COMPONENT	STD	TWA	STEL	TWA	STEL
KEROSENE, PETROLEUM	OSHA			N/E	
	ACGIH			200 mg/m3 (total HC\$kin; **(P) **A3	
	NIOSH	100 mg/m3			
BENZENE, 1,2,4-TRIMETHYL- (COMMON NAME: PSEUDOCUMENE)	OSHA	N/E			
	ACGIH	25 ppm		123 mg/m3	
	NIOSH	25 ppm			
NAPHTHALENE	OSHA	10 ppm	15 ppm	50 mg/m3	
	ACGIH	10 ppm (skin)**A4	15 ppm	52 mg/m3	79 mg/m3
	NIOSH	10 ppm	15 ppm		
BENZENES, DIMETHYL- (COMMON NAME: XYLENES - MIXED ISOMERS)	OSHA	100 ppm		434 mg/m3	
	ACGIH	100 ppm **A4	150 ppm	434 mg/m3	651 mg/m3
	OSHA	0.2 ppm		1 mg/m3	
BIPHENYL, 1,1'-	ACGIH	0.2 ppm		1.3 mg/m3	
	OSHA	100 ppm		435 mg/m3	
BENZENE, ETHYL-	ACGIH	100 ppm **A3	125 ppm	434 mg/m3	543 mg/m3

**INGREDIENT COMMENTS**

\*\*ACGIH A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans.

\*\*ACGIH A4: Not Classifiable as a Human Carcinogen.

\*\*ACGIH (P): Avoid prolonged and repeated skin contact to diesel fules which can lead to dermal irritation and may be associated with an increased risk of skin cancer.

## PROTECTIVE EQUIPMENT



### ENGINEERING CONTROLS

Use engineering controls to reduce air contamination to permissible exposure level.

### VENTILATION

No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

### RESPIRATORS

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

### PROTECTIVE GLOVES

For prolonged or repeated skin contact use suitable protective gloves.

### EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

### PROTECTIVE CLOTHING

Wear appropriate clothing to prevent repeated or prolonged skin contact.

### HYGIENIC WORK PRACTICES

Wash at the end of each work shift and before eating, smoking and using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE/PHYSICAL STATE</b>	Clear. Liquid.		
<b>COLOR</b>	Amber.		
<b>ODOR</b>	Hydrocarbon.		
<b>SOLUBILITY DESCRIPTION</b>	Insoluble in water.		
<b>DENSITY</b>	0.83	<b>Temperature (°C)</b>	15.6 (60°F)
<b>VAPOR DENSITY (air=1)</b>	> 4		
<b>VAPOR PRESSURE</b>	< 2.0 mmHg	<b>Temperature (°C)</b>	20 (68°F)
<b>EVAPORATION RATE</b>	< 0.1	<b>Reference</b>	BuAc=1
<b>pH-VALUE, CONC. SOLUTION</b>	N/A		

## 10. STABILITY AND REACTIVITY

<b>STABILITY</b>	Normally stable.
<b>CONDITIONS TO AVOID</b>	Avoid heat, flames and other sources of ignition.
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur.
<b>POLYMERIZATION DESCRIPTION</b>	Not applicable

**HAZARDOUS DECOMPOSITION PRODUCTS** Oxides of: Carbon. Nitrogen.

## 11. TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION** No experimental toxicological data on the preparation as such is available.

<b>COMPONENT</b>	<b>KEROSINE, PETROLEUM</b>
<b>TOXICOLOGICAL DATA</b>	Irritating effects. WHMIS (Canada) Skin. D2B - R38 ICPP. (1990). 90-10. [MO-015764]
<b>TOXIC DOSE - LD 50</b>	> 5000 mg/kg (oral rat)
<b>TOXIC DOSE - LD 50</b>	> 2835 mg/kg (oral-rbt)
<b>TOXIC DOSE - LD 50 SKIN</b>	> 2000 mg/kg (skn rbt)
<b>TOXIC CONC. - LC 50</b>	> 5200 mg/l/4h (inh-rat)
<b>COMPONENT</b>	<b>NAPHTHALENE</b>
<b>TOXICOLOGICAL DATA</b>	Carcinogenicity. WHMIS (Canada) D2A - R40
<b>TOXIC DOSE - LD 50</b>	1780.00 mg/kg (oral rat)
<b>TOXIC CONC. - LC 50</b>	No Information Available (NIA).
<b>CARCINOGENICITY</b>	EPA-C designation: Possible Human Carcinogen. EPA-CBD designation: Cannot Be Determined. IARC-2B designation: Possibly carcinogenic to humans.
<b>COMPONENT</b>	<b>BENZENES, DIMETHYL- (COMMON NAME: XYLENES - MIXED ISOMERS)</b>
<b>TOXICOLOGICAL DATA</b>	Mutagenicity. WHMIS (Canada) D2A - R63
	Irritating effects. WHMIS (Canada) Skin. D2B - R36/38
<b>TOXIC DOSE - LD 50</b>	4300 mg/kg (oral rat)
<b>TOXIC DOSE - LD 50 SKIN</b>	> 1700 mg/kg (skn rbt)
<b>TOXIC CONC. - LC 50</b>	5000 ppm/4h (inh-rat)
<b>GENOTOXICITY</b>	Positive results in some in vivo tests.
<b>CARCINOGENICITY</b>	OSHA: Not regulated. NTP: Not listed. IARC-3 designation: Not classifiable as to Carcinogenicity to Humans. EPA-D designation: Not classifiable as to human carcinogenicity.
<b>COMPONENT</b>	<b>BENZENE, ETHYL-</b>
<b>TOXICOLOGICAL DATA</b>	Carcinogenicity. WHMIS (Canada) D2A - R40
	Irritating effects. WHMIS (Canada) Skin. D2B - R36/38
<b>TOXIC DOSE - LD 50</b>	3500 mg/kg (oral rat)
<b>TOXIC DOSE - LD 50 SKIN</b>	15400 mg/kg (skn rbt)
<b>TOXIC CONC. - LC 50</b>	No Information Available (NIA).
<b>CARCINOGENICITY</b>	OSHA: Not regulated. NTP: Not listed. IARC-2B designation: Possibly carcinogenic to humans. EPA-D designation: Not classifiable as to human carcinogenicity.

## 12. ECOLOGICAL INFORMATION

**\*ECOLOGICAL INFORMATION** Dangerous for the environment if discharged into watercourses.

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## 13. DISPOSAL CONSIDERATIONS

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<b>DISPOSAL METHODS</b>	Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.
<b>*WASTE CLASSIFICATION</b>	D001 Ignitable.

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## 14. TRANSPORT INFORMATION

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<b>CLASSIFICATION COMMENT</b>	US DOT COMBUSTIBLE LIQUID - Product is only regulated for ground transport in quantities of 119 gallons or more. Canadian TDGR - Product is only regulated for transport in quantities of 454 liters or more.
<b>DOT PROPER SHIPPING NAME</b>	Kerosene
<b>DOT HAZARD CLASS</b>	Combustible Liquid.
<b>IDENTIFICATION No.</b>	UN1223
<b>PACKING GROUP</b>	III
<b>REPORTABLE QUANTITY (RQ)</b>	No
<b>LABEL FOR TRANSPORT</b>	



<b>U.S. DOT HAZARD LABEL</b>	COMBUSTIBLE (Red diamond) DOT10.
<b>TDGR SHIPPING NAME</b>	Kerosene
<b>TDGR PACKING GROUP</b>	III
<b>UN No. SEA</b>	UN1223
<b>IMDG CLASS</b>	3
<b>IMDG PACK GR.</b>	III
<b>SEA TRANSPORT NOTES</b>	Kerosene
<b>UN No., AIR</b>	UN1223
<b>ICAO CLASS</b>	3
<b>AIR PACK GR.</b>	III
<b>AIR TRANSPORT NOTES</b>	Kerosene

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## 15. REGULATORY INFORMATION

### US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
BENZENE, ETHYL-	No	100 lbs	Yes
BIPHENYL, 1,1'-	No	No	Yes
KEROSINE, PETROLEUM	No	No	No
DICARBOXYLIC FATTY ACID, TALLOW DIAMINE SALTS	No	No	No
PARAFFIN WAXES, PETROLEUM, HYDROTREATED	No	No	No
BARIUM DINONYLNAPHTHALENE SULFONATE	No	***	N040 - Ba
BENZENE, 1,2,4-TRIMETHYL- (COMMON NAME: PSEUDOCUMENE)	No	No	Yes
NAPHTHALENE	No	100 lbs	Yes
BENZENES, DIMETHYL- (COMMON NAME: XYLENES - MIXED ISOMERS)	No	100 lbs	Yes

See Section 2 for Additional Information

### REGULATORY STATUS

\*\*\* Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section 313.

### CLEAN AIR ACT

**SARA HAZARD CATEGORIES** Acute Fire

### US STATE REGULATIONS

COMPONENT	CA	MA	FL	MN	NJ	PA	RI
BARIUM DINONYLNAPHTHALENE SULFONATE						EH	
BENZENE, 1,2,4-TRIMETHYL- (COMMON NAME: PSEUDOCUMENE)	No	Yes			Yes	EH	Yes
NAPHTHALENE	C					EH	
BENZENES, DIMETHYL- (COMMON NAME: XYLENES - MIXED ISOMERS)	No	Yes			Yes	EH	Yes
BIPHENYL, 1,1'-						EH	
BENZENE, ETHYL-	C	Yes			Yes	EH	Yes

### \*STATE REGULATORY STATUS

CALIFORNIA PROPOSITION 65: This product may contain the following chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required:

Trace amounts of:

Ethylbenzene, cancer hazard, CAS# 100-41-4

Naphthalene, cancer hazard, CAS # 91-20-3

Toluene, developmental hazard, CAS # 108-88-3 <10 ppm

PENNSYLVANIA RIGHT-TO-KNOW: This product contains the following chemicals that the state of Pennsylvania has identified as Special Hazardous Substances (SHS), Environmental Hazards (EH), or both (ESHS). The PA regulations require that the MSDS identify all SHS or EH chemicals by chemical name, common name, and CAS Number if they comprise 0.01% or more.

Barium compounds regulated under CERCLA and SARA 313, Environmental Hazard  
Xylenes (mixed isomers), Environmental Hazard, CAS # 1330-20-7

Pseudocumene, Environmental Hazard, CAS# 95-63-6

Biphenyl, Environmental Hazard, CAS# 92-52-4

Ethylbenzene, Environmental Hazard, CAS# 100-41-4  
Naphthalene, environmental hazard, CAS # 91-20-3

### WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

#### \*LABEL(S) FOR SUPPLY



#### \*CONTROLLED PRODUCT CLASSIFICATION

B3 - Combustible Liquids  
D2B - Irritating and/or Chronically Toxic Materials

#### \*Risk phrases

R-10 Flammable/Combustible Liquid.  
R-38 Irritating to skin.  
R-65 Harmful: may cause lung damage if swallowed.

#### GLOBAL INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
BIPHENYL, 1,1'-	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
BENZENE, ETHYL-	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
BENZENES, DIMETHYL- (COMMON NAME: XYLENES - MIXED ISOMERS)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
KEROSINE, PETROLEUM	DSL	Yes	EINECS	Yes	9-1702	Yes	Yes	Yes
DICARBOXYLIC FATTY ACID, TALLOW DIAMINE SALTS	NDSL	Yes	EINECS	No		No		No
PARAFFIN WAXES, PETROLEUM, HYDROTREATED	DSL	Yes	EINECS	Yes	Yes	Yes		Yes
BARIUM DINONYLNAPHTHALENE SULFONATE	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
BENZENE, 1,2,4-TRIMETHYL- (COMMON NAME: PSEUDOCUMENE)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
NAPHTHALENE	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

COMPONENT  
NAPHTHALENE

**TSCA 12(b) Export Notification**  
Yes

CANADA POSSIBLE RESTRICTION: This product contains one or more proprietary components that may not be listed on the Canadian Domestic Substances List (DSL). Contact the Regulatory Compliance Manager for more information.

## 16. OTHER INFORMATION

#### NFPA-HMIS HAZARD RATING

#### HEALTH

Irritation, minor residual injury (1) - HMIS/NFPA

#### FLAMMABILITY

Burns only if heated moderately (2) - HMIS/NFPA

#### REACTIVITY

Normally Stable (0) - HMIS/NFPA

**PERSONAL PROTECTION INDEX** B - Safety Eyewear and Gloves

**\*REVISION COMMENTS** \* Information revised since previous MSDS version.

**PREPARED BY** James W. Hermann

**\*Replacement of MSDS generated** 2004-11-08

**\*DATE** 2007-03-06

**DISCLAIMER** While the information and recommendations set forth herein are believed to be accurate as of the date thereof, the company makes no warranty with respect thereto and disclaims all liability from reliance therein.

**\* Information revised since previous MSDS version**

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