

MATERIAL SAFETY DATA SHEET

CT 4-A

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME	CT 4-A
PRODUCT USE	Oil Based Rust Preventive Additive
SUPPLIER	Chemtool Incorporated 8200 Ridgefield Road P.O. Box 538 Crystal Lake, IL 60039-0538 Tel: (815) 459-1250 Fax: (815) 459-1955
EMERGENCY TELEPHONE	Infotrac U.S. and Canada - (800) 535-5053 Outside the U.S. and Canada - 001-352-323-3500

2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
DISTILLATES, PETROLEUM, SEVERELY HYDROTREATED LIGHT NAPHTHENIC	64742-53-6	30-50 %
DISTILLATES, PETROLEUM, SEVERELY HYDROTREATED HEAVY NAPHTHENIC	64742-52-5	30-50 %

COMPOSITION COMMENTS

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

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

ACUTE EFFECTS

HEALTH HAZARDS, GENERAL Prolonged exposure to product mist or vapors may cause respiratory irritation.

CHRONIC EFFECTS

SENSITIZATION No known information.

CARCINOGENICITY IARC: Not listed. NTP: Not listed. OSHA: Not regulated.

TERATOGENICITY No known information.

HEALTH WARNINGS

INHALATION. Oil mist can irritate airways and lungs. Single exposure to vapors is not likely to be hazardous. **SKIN CONTACT.** Slightly irritating. Repeated or prolonged

contact can result in drying of the skin. EYE CONTACT. Irritating. INGESTION. Can cause discomfort. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.

OTHER INFORMATION

ROUTE OF ENTRY Skin and/or eye contact. Ingestion. Inhalation.

4. FIRST AID MEASURES

INHALATION 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.

EYES Important! Immediately rinse with water for at least 15 minutes. Get medical attention if any discomfort continues.

SKIN Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

INGESTION DO NOT induce vomiting. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

FLASH POINT (°C) 132 Cd OC (Cleveland open cup).

FLAMMABILITY LIMIT - LOWER(%) 0.9

FLAMMABILITY LIMIT - UPPER(%) 7.0

EXTINGUISHING MEDIA Use: Dry chemicals, sand, dolomite etc. Foam. Carbon dioxide (CO₂).

SPECIAL FIRE FIGHTING PROCEDURES Use water spray to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures. Caution should be exercised when using water or foam as frothing may occur.

UNUSUAL FIRE & EXPLOSION HAZARDS Pressure will increase in over heated, closed containers.

HAZARDOUS COMBUSTION PRODUCTS Acrid smoke/fumes. Oxides of: Carbon, Sulfur.

PROTECTIVE MEASURES IN CASE OF FIRE Self-contained breathing equipment and chemical resistant clothing recommended.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Minimize skin contact.

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, PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
DISTILLATES, PETROLEUM, SEVERELY HYDROTREATED LIGHT NAPHTHENIC	OSHA	5 mg/m ³	N/E		
	ACGIH	5 mg/m ³	10 mg/m ³		
DISTILLATES, PETROLEUM, SEVERELY HYDROTREATED HEAVY NAPHTHENIC	OSHA	5 mg/m ³	N/E		
	ACGIH	5 mg/m ³	10 mg/m ³		

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

APPEARANCE/PHYSICAL STATE	Clear. Liquid.
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COLOR	Dark. Brown.		
ODOR	Mild (or faint). Citrus		
SOLUBILITY DESCRIPTION	insoluble in water.		
BOILING POINT (°C, range)	>177	Pressure	760mmHg
MELT./FREEZ. POINT (°C, interval)	-4		
DENSITY	0.89	Temperature (°C)	16
VAPOR DENSITY (air=1)	> 5		
VAPOR PRESSURE	< 0.5 mmHg	Temperature (°C)	20
EVAPORATION RATE	< 0.01	Reference	BuAc=1
pH-VALUE, CONC. SOLUTION	N/A		

10. STABILITY AND REACTIVITY

STABILITY	Normally stable.
HAZARDOUS POLYMERIZATION	Will not occur.
POLYMERIZATION DESCRIPTION	Not applicable
HAZARDOUS DECOMPOSITION PRODUCTS	Gases of. Carbon. Sulfur.

11. TOXICOLOGICAL INFORMATION

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

ECOLOGICAL INFORMATION	There is no ecological data on the product itself.
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13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.
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14. TRANSPORT INFORMATION

DOT HAZARD CLASS	Not regulated.
SEA TRANSPORT NOTES	Not regulated.

AIR TRANSPORT NOTES

Not regulated.

15. REGULATORY INFORMATION**US FEDERAL REGULATIONS**

COMPONENT	SARA 302	CERCLA	SARA 313
DISTILLATES, PETROLEUM, SEVERELY HYDROTREATED LIGHT NAPHTHENIC	N/A	N/A	N/A
DISTILLATES, PETROLEUM, SEVERELY HYDROTREATED HEAVY NAPHTHENIC	N/A	N/A	N/A

CLEAN AIR ACT

SARA(311/312) HAZARD CATEGORIES None

US STATE REGULATIONS**WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHIMIS**

COMPONENT	INVENTORIES							
	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
DISTILLATES, PETROLEUM, SEVERELY HYDROTREATED LIGHT NAPHTHENIC	DSL	Yes	NAV	NAV	NAV	NAV	NAV	NAV
DISTILLATES, PETROLEUM, SEVERELY HYDROTREATED HEAVY NAPHTHENIC	DSL	Yes	EINECS	Yes	No	Yes	NAV	Yes

16. OTHER INFORMATION

HEALTH	Irritation, minor residual injury (1)
FLAMMABILITY	Burns only if pre-heated (1).
REACTIVITY	N/A (0).
PREPARED BY	John Dingess
DATE	November 26, 2003
DISCLAIMER	While the information and recommendations set forth herein are believed to be accurate as of the date thereof, Chemtool Incorporated makes no warranty with respect thereto and disclaims all liability from reliance therein.