

MATERIAL SAFETY DATA SHEET

CT 250 (ALL COLORS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME CT 250 (ALL COLORS)

PART No. 240010, 240000

SYNONYMS CT 250 (BLUE), CT 250-ND

PRODUCT USE Soluble Oil Metalworking Fluid

SUPPLIER Afton Inc.
P.O. Box 1638
Auburn, WA 98071-1638 USA
Tel: (253) 852-6681
Fax: (253) 856-1003

EMERGENCY TELEPHONE (800) 451-8346
(760)-602-8700

2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	64742-52-5	60-80 %
ALKANES, CHLORO (C14-C17 CHLORINATED PARAFFINS, SUBGROUP OF CAS# 61788-76-9)	61788-76-9B	7-13 %
*FATTY ACIDS, TALL-OIL, POTASSIUM SALTS	61790-44-1	3-7 %
*2,4-PENTANEDIOL, 2-METHYL- (COMMON NAME: HEXYLENE GLYCOL)	107-41-5	1-5 %
*BENZENESULFONIC ACID, MONO-C19-28-ALKYL DERIVS., SODIUM SALTS	70024-73-6	1-5 %

* 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.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HEALTH HAZARDS, GENERAL	Prolonged exposure to product mist or vapors may cause respiratory irritation. Concentrate may cause irritation to eyes and skin.
SENSITIZATION	No known information.
CARCINOGENICITY	IARC: Not listed as a Group 1, 2A, or 2B agent. OSHA: Not regulated. NTP: Not listed.
TERATOGENICITY	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.
HEALTH WARNINGS	INHALATION. Inhalation of product vapor or mist may cause irritation of mucous membranes in nasal passages and throat. SKIN CONTACT. Slightly irritating. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Liquid, vapor and mists may cause discomfort in the eye with severe transient conjunctivitis. Serious corneal injury is not anticipated. INGESTION. Can cause stomach ache and vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.
ROUTE OF ENTRY	Inhalation. Ingestion. Skin and/or eye contact.

4. FIRST AID MEASURES

INHALATION	Remove victim immediately from source of exposure. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. Perform artificial respiration if breathing has stopped. Get medical attention.
EYES	Important! Immediately rinse with water for at least 15 minutes. Get medical attention if any discomfort continues.
SKIN	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
INGESTION	DO NOT INDUCE VOMITING! Administer large amounts of water. Get medical attention immediately! Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLASH POINT (°C)	177 (350°F) Cd OC (Cleveland open cup).
FLAMMABILITY LIMIT - LOWER(%)	N/D
FLAMMABILITY LIMIT - UPPER(%)	N/D
EXTINGUISHING MEDIA	Use: Foam. Carbon dioxide (CO ₂). Dry chemicals, sand, dolomite etc. Water spray, fog or mist.
SPECIAL FIRE FIGHTING PROCEDURES	Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Keep run-off water out of sewers and water sources. Dike for water control. Avoid water in straight hose stream; will scatter and spread fire.
UNUSUAL FIRE & EXPLOSION HAZARDS	Pressure will increase in over heated, closed containers.
HAZARDOUS COMBUSTION PRODUCTS	Acrid smoke/fumes. Oxides of: Carbon. Nitrogen. 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. Absorb small amounts. Collect and return large amounts to shipping container. Rinse area with water.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS	Avoid eye contact. Keep lid closed when not in use. Do not reuse container. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Avoid spilling, skin and eye contact. Eye wash and emergency shower must be available at the work place. 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, HYDROTREATED HEAVY NAPHTHENIC	OSHA			5 mg/m ³ (oil mist)	
	ACGIH			5 mg/m ³ (oil mist)	10 mg/m ³ (oil mist)
2,4-PENTANEDIOL, 2-METHYL- (COMMON NAME: HEXYLENE GLYCOL)	OSHA	N/E	N/E		
	ACGIH	N/E	C 25 ppm	N/E	C 121 mg/m ³
	NIOSH	N/E	C 25 ppm		

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. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC. or latex.
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	Liquid.		
COLOR	Blue. or Amber.		
ODOR	Mild (or faint). Petroleum.		
SOLUBILITY DESCRIPTION	Forms an emulsion with water.		
DENSITY	0.96	Temperature (°C)	15.6 (60°F)
VAPOR DENSITY (air=1)	> 1		
EVAPORATION RATE	< 1	Reference	BuAc=1
pH-VALUE, DILUTED SOLUTION	9.2	Concentration %M	5%

10. STABILITY AND REACTIVITY

STABILITY	Normally stable.
CONDITIONS TO AVOID	Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidizers.
HAZARDOUS POLYMERIZATION	Will not occur.
POLYMERIZATION DESCRIPTION	Not applicable
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of: Carbon. Nitrogen. Sulfur.

11. TOXICOLOGICAL INFORMATION

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

COMPONENT	DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC
TOXIC DOSE - LD 50	> 5000 mg/kg (oral rat)
TOXIC DOSE - LD 50 SKIN	> 2000 mg/kg (skn rbt)
TOXIC CONC. - LC 50	N/A.
CARCINOGENICITY	The petroleum base oil contained in this product has been highly refined to remove aromatics and improve performance characteristics. The base oil is not listed as a carcinogen by NTP, IARC, or OSHA.
COMPONENT	ALKANES, CHLORO (C14-C17 CHLORINATED PARAFFINS, SUBGROUP OF CAS#

	61788-76-9)
TOXIC DOSE - LD 50	> 4000 estimated mg/kg (oral rat)
TOXIC DOSE - LD 50 SKIN	> 2000 estimated mg/kg (skn rbt)
TOXIC CONC. - LC 50	N/A.

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

CLASSIFICATION COMMENT This product is an oil under 49 CFR Part 130. If shipped by rail or highway in a tank with a capacity of 3,500 gallons or more, it is subject to the requirements of Part 130.

DOT HAZARD CLASS Not regulated.

TDGR CLASS Not Regulated.

SEA TRANSPORT NOTES Not regulated per IMDG.

AIR TRANSPORT NOTES Not regulated per IATA.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	No	No	No
ALKANES, CHLORO (C14-C17 CHLORINATED PARAFFINS, SUBGROUP OF CAS# 61788-76-9)	No	No	No
FATTY ACIDS, TALL-OIL, POTASSIUM SALTS	No	No	No
2,4-PENTANEDIOL, 2-METHYL- (COMMON NAME: HEXYLENE GLYCOL)	No	No	No
BENZENESULFONIC ACID, MONO-C19-28-ALKYL DERIVS., SODIUM SALTS	No	No	No

CLEAN AIR ACT

SARA HAZARD CATEGORIES Acute Chronic

US STATE REGULATIONS

COMPONENT	CA	MA	FL	MN	NJ	PA	RI
2,4-PENTANEDIOL, 2-METHYL- (COMMON NAME: HEXYLENE GLYCOL)		Yes	Yes	Yes	Yes	Yes	

STATE REGULATORY STATUS PROPOSITION 65: This product *****DOES NOT***** contain chemicals 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.

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.

CONTROLLED PRODUCT CLASSIFICATION Not a controlled product.

COMPONENT	GLOBAL INVENTORIES							
	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
ALKANES, CHLORO (C14-C17 CHLORINATED PARAFFINS, SUBGROUP OF CAS# 61788-76-9)	DSL	Yes	EINECS					
FATTY ACIDS, TALL-OIL, POTASSIUM SALTS	DSL	Yes	EINECS	Yes				Yes
2,4-PENTANEDIOL, 2-METHYL- (COMMON NAME: HEXYLENE GLYCOL)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
BENZENESULFONIC ACID, MONO-C19-28-ALKYL DERIVS., SODIUM SALTS	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).

16. OTHER INFORMATION

NFPA-HMIS HAZARD RATING

HEALTH	Irritation, minor residual injury (1) - HMIS/NFPA
FLAMMABILITY	Burns only if pre-heated (1) - HMIS/NFPA
REACTIVITY	Normally Stable (0) - HMIS/NFPA
PERSONAL PROTECTION INDEX	B - Safety Eyewear and Gloves
REVISION COMMENTS	Section 2: Ingredients Section 11: Toxicological Information Section 15: WHMIS

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