

MATERIAL SAFETY DATA SHEET

Total Solutions
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GENERAL INFORMATION NUMBER: (414) 354-6417
CHEMTREC: (800) 424-9300

REVISION DATE: November 12, 2004
DATE OF ISSUE: December 30, 2004

I - Product Identification

Cutting & Tapping Oil

PRODUCT CODE: 0301

CHEMICAL FORMULATION: Solvent based penetrating lubricant.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0
HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX	OSHA	ACGIH	EPA 40 CFR:			CAS #
	%	PEL	TLV	302	355	372	
Mineral Oil	N/D	5 mg/m ³ (as an oil mist)	5 mg/m ³ (as an oil mist)	N	N	N	N/D
Chlorinated Paraffin	N/D	N/E	N/E	N	N	N	N/D

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): 500 SPECIFIC GRAVITY (WATER = 1): 0.90
VAPOR PRESSURE (mm Hg): 0.01 VOC CONTENT (% by weight): N/D
VAPOR DENSITY (AIR = 1): 5 EVAPORATION RATE (WATER = 1): N/D
SOLUBILITY IN WATER: Very slight pH: N/A
APPEARANCE AND ODOR: Clear, black oily liquid; sulfur odor.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): 320 (TEST METHOD): Cleveland Open Cup
FLAMMABLE LIMITS IN AIR (VOLUME %) UPPER: 7.0 LOWER: 1.0
EXTINGUISHING MEDIA: Water spray, foam, carbon dioxide, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool fire-exposed containers. Firefighters must use full protective gear including self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARD: Directly spraying extinguishing media onto hot burning products may cause frothing and spreading of fire.

V - Reactivity Data

STABILITY: Stable**INCOMPATIBILITY:** Strong oxidizing agents.**CONDITIONS TO AVOID:** Heat, sparks or open flame.**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce acrid smoke, oxides of carbon, nitrogen and sulfur.**HAZARDOUS POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** None

VI - Health Hazard Data

ROUTES OF ENTRY **INHALATION:** **EYE CONTACT:** X **SKIN CONTACT:** X **INGESTION:****INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS:** None**EFFECTS OF OVEREXPOSURE****IF IN EYES:** Irritation, redness, tearing.**IF ON SKIN:** May cause skin irritation or dermatitis with prolonged or repeated contact.**IF SWALLOWED:** Gastrointestinal irritation, nausea, vomiting, diarrhea. Small amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.**IF INHALED:** Respiratory tract irritation, dizziness, weakness, headache, nausea.**EMERGENCY AND FIRST AID PROCEDURES****IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.**IF ON SKIN:** Wash with soap and water. Remove all contaminated clothing and launder separately before reuse. If irritation persists, obtain medical attention.**IF SWALLOWED:** Contact physician or poison control center immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.**IF INHALED:** Remove person to fresh air. If breathing has stopped, administer artificial respiration. Obtain medical attention, if irritation persists.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area and remove all sources of ignition. Contain spill.

Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal.

WASTE DISPOSAL METHOD: Consult local environmental authorities.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation. Do not breathe vapors or mists. In areas of high concentration, an NIOSH approved respirator must be used, following manufacturers recommendations.**VENTILATION****LOCAL:** Recommended**MECHANICAL:** Not Required**PROTECTIVE GLOVES:** Chemical resistant.**EYE PROTECTION:** Safety glasses or chemical goggles.**OTHER PROTECTIVE EQUIPMENT:** Protective clothing, eye wash station.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place away from heat and open flame. Keep container tightly closed when not in use. Wash thoroughly after handling.**OTHER PRECAUTIONS:** Keep out of reach of children.

IX - Transportation Information (ground transportation only)

DOT PROPER SHIPPING NAME: None**DOT CLASS:** None**DOT ID NUMBER:** None**DOT PACKING GROUP:** None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

REVISION DATE: November 12, 2004**Prepared by:** PMR**DATE OF ISSUE:** December 30, 2004

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