

MATERIAL SAFETY DATA SHEET

U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200

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Date Reviewed: **August 15, 2011**

TRADE NAME	TAP MAGIC PROTAP Cutting Fluid
CHEMICAL NAME & SYNONYMS	Hydrocarbon Mixture
DOT SHIPPING NAME	Not a Regulated Material
IATA SHIPPING NAME	No hazard label required, no limit on quantity
HMIS/NFPA CODE	Health 0; Fire 1; Reactivity 0
MANUFACTURING CODE NO.:	8358
COMMODITY CODE NO.:	332-9150

I. HAZARDOUS INGREDIENTS

This product contains no toxic or hazardous ingredients by OSHA criteria; however, as with any chemical product, exposure to liquids, vapors, mists and fumes should be minimized.

II. INGREDIENTS

Aliphatic Organic Acid	:	CAS# 112-80-1	>75% mixture
Aliphatic Organic Ester	:	CAS# 112-62-9	<15% mixture
Organic Polyol	:	CAS# None Assigned	<10% mixture

III. PHYSICAL DATA

BOILING RANGE, (760 mm Mercury)	:	680 to 1000° F
SPECIFIC GRAVITY (Water = 1) (lbs/gal)	:	(0.894) 7.46 lbs/gal
VAPOR PRESSURE (mm of Mercury) @ 75° F	:	Less Than 1
VAPOR DENSITY (Air = 1)	:	Greater Than 5
SOLUBILITY IN WATER, % by weight	:	Less Than 1 (Insoluble)
EVAPORATION RATE (Butyl Acetate = 1)	:	Less Than 0.01
% VOLATILE BY VOLUME @ 75° F	:	Less Than 1
APPEARANCE	:	Yellow Liquid
ODOR	:	Pleasant
pH	:	Nonaqueous

IV. FIRE & EXPLOSION DATA

LOWER FLAMMABLE LIMIT IN AIR (% by Volume)	:	1.0
UPPER FLAMMABLE LIMIT IN AIR (% by Volume)	:	15
FLASH POINT, PMCC	:	370° F
AUTOIGNITION TEMPERATURE	:	685° F
EXTINGUISHING MEDIA	:	Foam, Carbon Dioxide, Dry Chemical

V. HEALTH HAZARD INFORMATION

ROUTES OF ENTRY	:	Ingestion is the primary method of possible entry.
EFFECTS OF ACUTE OVEREXPOSURE:		INHALATION: (Unlikely due to low vapor pressure). Mist may cause headache, nasal, respiratory and eye irritation. INGESTION: Headache, drowsiness, nausea, fatigue. EYES: May cause pain and irritation.

EFFECTS OF CHRONIC OVEREXPOSURE: **SKIN CONTACT:** Prolonged or repeated exposure may cause irritation.

CARCINOGENICITY : Not a carcinogen or suspect carcinogen.

EMERGENCY AND FIRST AID PROCEDURES:**EYE:** Flush eyes gently with water for at least 15 minutes. Supportive treatment is recommended.

SKIN: Wash with mild soap and water. Remove wetted clothing.

INHALATION: Remove to fresh air.

INGESTION: Do not induce vomiting. Call a physician and/or transport to emergency medical facility.

VI. REACTIVITY DATA

Materials such as sawdust or cloth rags which have been wetted with lubricant may be subject to spontaneous combustion during storage.

VII. DISPOSAL, SPILL OR LEAK PROCEDURES

AQUATIC TOXICITY : Aquatic toxicity is low: Product is not soluble in water. Biodegradable.

SPILL OR LEAK PROCEDURES: Absorb with inert materials. Remove to out of doors and incinerate.

WASTE DISPOSAL METHOD : PROTAP contains no environmentally hazardous substances. Small amounts may be incinerated in compliance with local, state and federal regulations. The recommended method of disposal for large quantities is recycling by a reclaimer or incineration. "If inert absorbents are employed in spill containment or cleanup, these absorbents must be non-biodegradable materials if destined for landfill disposal. Suitable absorbents include natural minerals (clay), activated charcoal, man-made polymers (HD polyethylene)."

VIII. SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Standard eye protection should be worn when using this product.

SKIN PROTECTION: No special protection is needed. However, good personal hygiene practices should be followed.

RESPIRATORY: If application to which this product is being applied generates excessive mist or fumes, then appropriate respiratory protective equipment should be used. No special requirements under ordinary condition and use and proper ventilation of work area.

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.

IX. SPECIAL PRECAUTIONS

Product is ignitable, keep away from open flames. Do not expose to ignition sources. Do not store with strong oxidizers such as nitrates or perchlorates or oxygen under pressure. May cause swelling of some plastics and synthetic rubbers.

X. ADDITIONAL INFORMATION

Tap Magic PROTAP DOES NOT CONTAIN 1,1,1-trichloroethane or any ozone depleting substances. PROTAP does not contain chlorine, phosphorous, active sulfur, nitrates, nitrite derivatives, amines, polynuclear aromatic compounds either as ingredients or trace contaminants. Shelf life is indefinite at ambient temperatures and left in original containers.

Tap Magic PROTAP does not contain any chemical compound listed on the SARA list of 'Extremely Hazardous Chemicals', and is in compliance with all of the requirements of the TSCA at the time of shipment.

Caution: Any cutting fluid can be "overworked" or "overheated", causing it to break down. This overuse is identified by the sight of or strong odor of vapors or fumes not normally present. The effects of these vapors or fumes on human health have not been fully determined. After use of this product, clean and lubricate

metal surfaces to avoid staining and/or corrosion.

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