

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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TRADE NAME: Tap Magic Aluminum Cutting Fluid
CHEMICAL NAME & SYNONYMS: Hydrocarbon Mixture
DOT SHIPPING NAME: Petroleum Distillate - Class: Combustible Liquid
IATA SHIPPING NAME: No hazard label required, no limit on quantity

I. HAZARDOUS INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>OSHA PEL, ppm</u>	<u>ACGIH TLV, ppm</u>	<u>Other Limits Recommended</u>	<u>Max. %</u>
Petroleum Distillate (Aliphatic 90%/Aromatic 10%)	8008-20-6	Not Listed	Not Listed	est. TLV 1000 ppm	60
Methyl Laurate	111-82-0	Not Listed	Not Listed	-	40
Vegetable Oil, Essential	104-55-2	Not Listed	Not Listed	-	10

II. PHYSICAL DATA

BOILING RANGE, (760 mm, Mercury) : 370 to 560° F
SPECIFIC GRAVITY (Water = 1) : 0.824
VAPOR PRESSURE (mm of Mercury) @ 75° F : Less Than 5
VAPOR DENSITY (Air = 1) : 5.5
SOLUBILITY IN WATER, % by weight : Less Than 1 (or insoluble)
EVAPORATION RATE (Butyl Acetate = 1) : 0.04
% VOLATILE BY VOLUME @ 75° F : Less Than 1
APPEARANCE : Light yellow liquid
ODOR : Pleasant
pH : Neutral (Nonaqueous)

III. FIRE & EXPLOSION DATA

LOWER FLAMMABLE LIMIT IN AIR (% by Volume)	:	0.7
UPPER FLAMMABLE LIMIT IN AIR (% by Volume)	:	5.0
FLASH POINT, PMCC	:	170° F
AUTOIGNITION TEMPERATURE	:	450° F
EXTINGUISHING MEDIA	:	Foam, Carbon Dioxide, Dry Chemical

IV. HEALTH HAZARD INFORMATION

ROUTES OF ENTRY	:	Ingestion is the primary method of possible entry. Material will not pass the skin barrier. Inhalation is unlikely due to low vapor pressure.
EFFECTS OF ACUTE OVEREXPOSURE	:	INHALATION: Concentration in excess of 1000 ppm may cause headache, nasal and respiratory irritation, nausea, drowsiness, fatigue, eye irritation and central nervous system depression. Narcotic effects may be severe at concentrations greater than 20,000 ppm. SKIN CONTACT: Material will not pass the skin barrier. INGESTION: Headache, drowsiness, nausea, fatigue, CNS depression. LD50 for rabbits is 28 g/kg; estimated toxic adult dose 3-4 oz. EYE: May cause pain and irritation.
EFFECTS OF CHRONIC OVEREXPOSURE	:	SKIN CONTACT: Prolonged or repeated exposure may cause defatting of the skin and subsequent rash or irritation. ALL ROUTES OF ENTRY: Based on available data, repeated exposures are not anticipated to cause any significant adverse effects. Birth defects are unlikely. Exposures having no adverse effects on the mother should have no effect on the fetus. In animal studies, has been shown not to interfere with reproduction. Results of in vitro ("test tube") mutagenicity tests have been negative. Results of mutagenicity tests in animals have been negative.
CARCINOGENICITY	:	Does not cause cancer in long term animal studies. Not a carcinogen or suspect carcinogen.
EMERGENCY AND FIRST AID PROCEDURES	:	EYE: Flush eyes gently with water for at least 15 minutes. Supportive treatment by a physician is recommended. SKIN: Wash with mild soap and water. Remove wetted clothing until dry. INHALATION: Remove to fresh air. Individuals showing pronounced anesthetic effects may require artificial respiration and oxygen. INGESTION: Do not induce vomiting. Call a physician and/or transport to emergency medical facility immediately.
NOTES TO PHYSICIAN	:	ORAL: Low in toxicity. Emetics are contraindicated due to danger of aspiration. If CNS Depression is prominent, nikethamide may be given parenterally. Avoid epinephrine. If and when warranted by special circumstances, gastric lavage may be performed cautiously with 3% sodium bicarbonate or water. Instill 30 to 60 ml of olive oil in the stomach at the conclusion of lavage and follow with a saline cathartic (sodium sulfate) in water.

V. REACTIVITY DATA

STABILITY: Chemical Stability is great; odor and color may be adversely affected by prolonged storage in hot, moist environment.

INCOMPATIBILITY: May cause swelling of some plastics and synthetic rubbers. Contact with strong oxidizing agents should be avoided. (Example: Oxygen gas under high pressure.)

HAZARDOUS DECOMPOSITION PRODUCTS: None, Incomplete combustion can yield carbon monoxide.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: None

VI. DISPOSAL, SPILL OR LEAK PROCEDURES

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

SPILL OR LEAK PROCEDURES : Small Spills: Absorb with inert material (saw dust, rags, activated charcoal). Remove to out of doors and incinerate.
Large Spills: Evacuate area. Contain liquid; transfer to closed metal (steel) containers. Keep out of water supply. Protect from ignition sources.

WASTE DISPOSAL METHOD : 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.

NEUTRALIZATION CHEMICALS : Product may be effectively absorbed with activated charcoal.

VII. SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS : Normal ventilation with regular use to maintain vapor concentration below 1000 ppm.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT : **RESPIRATORY:** None during normal use. Up to 2500 ppm, half-mask organic vapor respirator. Up to 5000 ppm, full-face organic vapor respirator or full-face supplied air respirator. Greater than 5000 ppm, fire fighting or unknown concentration, self-contained breathing apparatus with positive pressure.
EYES: None during normal use; face shield is recommended during machining operations.
SKIN: None required for casual contact during normal use. Nitrile, neoprene or other petroleum distillate resistant gloves and/or boots recommended for dealing with large spills.

VIII. SPECIAL PRECAUTIONS

It is a flammable liquid, keep away from open flames. Do not ingest. Do not expose to ignition sources. Storage life is indefinite if protected from heat and moisture. Do not store with any strong oxidizers.

ADDITIONAL INFORMATION: TAP MAGIC ALUMINUM does not contain nitrites, nitrite derivatives, amines, polynuclear aromatic compounds either as an ingredient or a trace contaminant.

MANUFACTURING CODE NO.: 8358

COMMODITY CODE NO.: 332-9150

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