

MATERIAL SAFETY DATA SHEET

Trade Name: TAP MAGIC ALUMINUM Cutting Fluid
 Chemical Name: Hydrocarbon Mixture
 & Synonyms
 DOT Shipping Name: Combustible Liquid n.o.s.
 Class: Combustible Liquid NA 1993
 IATA Shipping Name: No hazard label required, no limit on quantity
 Manufacturing: 8358
 Code No.
 Commodity Code No.: 332-9150
 Part Numbers: 002-826

Manufacturer's Name: Glendo Corporation
 Address: 900 Overlander Rd.
 Emporia, KS 66801
 Phone: 620-343-1084

EMERGENCY HAZARD RATING

HEALTH: 1 FIRE: 2
 REACTIVITY: 1 SPECIFIC HAZARD: Solvent

I. Hazardous Ingredients

Petroleum Distillate (Aliphatic 90%/Aromatic 10%)

CAS#: 8008-20-6
 OSHA Pel, ppm: N/A
 ACGIH TLV, ppm: N/A
 Other Limits
 Recommended: est. TLV
 Max %: 60

Methyl Laurate

CAS# 111-82-0
 OSHA PEL, ppm: N/A
 ACGIH TLV, ppm: N/A
 Other Limits
 Recommended: 1000 ppm
 Max %: 40

Vegetable Oil, Essential

CAS# 104-55-2
 OSHA PEL, ppm: N/A
 ACGIH TLV, ppm: N/A
 Other Limits
 Recommended: N/A
 Max %: 10

II. Physical Data

Boiling range: 370-560°F
 Specific gravity: 0.824 (6.88)
 Vapor pressure: Less than 5
 Vapor density: 5.5
 Solubility in
 other solvent: Less than 1 (insoluble)
 Evaporation rate: 0.04
 % Volatile by Volume: Less than 1
 Appearance: Light yellow liquid
 Odor: Pleasant
 pH: Neutral (Nonaqueous)

III. Fire & Explosion Data

Lower Flammable Limit in Air: 0.7 (% by volume)
 Upper Flammable Limit in Air: 5.0 (% by volume)
 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 28g/kg; estimated toxic adult dose 3-4 oz. 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 effect. Birth defects are unlikely. Exposures having no adverse effects on 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 wet 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 outdoors and incinerate.

Large Spills: Evacuate area. Contain liquid; transfer to closed metal (steel) containers. Keep out of water supply. Protect from ignition sources.

WASTER 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.

"If inert absorbent are employed in spill containment or cleanup, these absorbent must be non-biodegradable materials if destined for landfill disposal. Suitable absorbent include natural minerals (clay), activated charcoal, manmade polymers (HD polyethylene)."

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, fire fighting or unknown concentration, self-contained breathing apparatus with position pressure.

Eyes: None during normal use; face shield is recommended for dealing with large spills.

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 combustible 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.

XI. Additional Information

Tap Magic Aluminum DOES NOT CONTAIN 1,1,1-trichloroethane, or any ozone depleting substances. Tap Magic Aluminum does not contain nitrites, nitrite derivatives, amines, polynuclear aromatic compounds either as an ingredient or a trace contaminant. Tap Magic Aluminum 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.

This MSDS is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet.

Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

