

Material Safety Data Sheet

TAPFREE 2

MSDS No. WB0350A

Date of Preparation: February 20, 2003

Revision: 00

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: TAPFREE 2
Chemical Formula: Aqueous Metal Cutting Fluid
CAS Number: Mixture
Other Designations: None
General Use: Metal Cutting Fluid
Manufacturer: Winfield Brooks Company, Inc., 70 Conn Street, Woburn, MA 01801-5693, Phone (781) 933-5300, (hours of operation: M - F 8:30 AM - 5:00PM) FAX (781) 932-9239, Emergency Phone Number: INFOTRAK (800) 535-5053

HMIS
H 1
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PPE [†] A
[†] Sec. 8

Emergency Overview

Yellow, sweet smelling aqueous liquid at room temperature. May cause temporary eye irritation.

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt
Polyalkylene Glycol	*****	<20
Chlorinated Fatty Acid	*****	<10
Triethanolamine	102-71-6	<5

***** = The specific chemical identity is being withheld as a trade secret.

Ingredient	OSHA PEL TWA	OSHA PEL STEL	ACGIH TLV TWA	ACGIH TLV STEL	NIOSH REL TWA	NIOSH REL STEL	NIOSH IDLH
Triethanolamine	none estab.	none estab.	0.46 ppm 5 mg/m ³	none estab.	3 ppm	none estab.	none estab.

Section 3 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Yellow color with sweet fatty odor

Vapor Pressure: 25 mm Hg at 68 °F (20 °C)

Vapor Density (Air=1): 5.14

Formula Weight: N/A

Density: 8.5 lb./gal.

Specific Gravity (H₂O=1, at 20 °C): 1.02

pH: 8

Water Solubility: completely soluble

Other Solubilities: N/A

Boiling Point: 212 °F (100 °C)

Freezing/Melting Point: 32 °F (0 °C)

Viscosity: 5 cps. at 68 °F (20 °C)

Refractive Index: No data

Surface Tension: No data

% Volatile: approx. 75%

Evaporation Rate: No data

Section 4 - Fire-Fighting Measures

Flash Point: none

Flash Point Method: N/A

Burning Rate: N/A

Autoignition Temperature: N/A

LEL: N/A

UEL: N/A

Flammability Classification: non-flammable: the product will burn only after the water it contains is driven off.

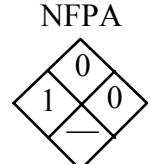
Extinguishing Media: Dry chemicals, CO₂, water fog or foam

Unusual Fire or Explosion Hazards: none

Hazardous Combustion Products: Carbon oxides (CO, CO₂), hydrogen chloride gas, nitrogen oxides & products of incomplete combustion

Fire-Fighting Instructions: Water may be used to keep containers cool. Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.



Section 5 - Stability and Reactivity

Stability: product is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: strong oxidizing agents, reducing agents

Conditions to Avoid: keep away from heat

Hazardous Decomposition Products: Thermal decomposition of product can produce hydrogen chloride gas.

Section 6 - Health Hazard Information

Potential Health Effects

Primary Entry Routes: eye contact, skin contact, ingestion

Target Organs: No data

Acute Effects

Inhalation: No significant adverse effects

Eye: contact with eye may cause irritation

Skin: contact with skin may cause irritation

Ingestion: may cause gastrointestinal discomfort & nausea, vomiting or diarrhea

Carcinogenicity: IARC, NTP, and OSHA do not list product as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: No data

Chronic Effects: no known or reported effects

Emergency and First Aid Procedures

Inhalation: Allow the victim to rest in a well-ventilated area

Eye Contact: Flush with plenty of water for at least 15 minutes, occasionally lifting the upper & lower eyelids

Skin Contact: Wash well with soap & water

Ingestion: Immediately drink large quantities of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if symptoms develop.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: N/A

Special Precautions/Procedures: N/A

Section 7 - Spill, Leak, and Disposal Procedures

Spill /Leak Procedures

Small Spills: Absorb with inert material and place in an appropriate waste disposal container

Large Spills

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Cleanup: Treat like an oil spill. Pump liquid to salvage tank. Absorb remainder with inert material.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Disposal Regulatory Requirements: If product becomes a waste, dispose of in accordance with local, state and federal regulations. Product is not a hazardous waste as defined in 40CFR261 Subpart D.

Ecological Information: No ecotoxicity or aquatic toxicity known or reported.

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261): Not classified

SARA 311/312: No listed substances

State Regulations: Triethanolamine listed in Right to Know in: FL, MA, MN, PA & RI

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Respiratory Protection: If vapors or mists are present, wear an MSHA/NIOSH-approved respirator. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.*

Protective Clothing/Equipment: Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses. If exposed to prolonged or repeated skin contact, wear chemically protective gloves, boots & aprons.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Special Precautions and Comments

Handling Precautions: Keep container closed when not in use.

Storage Requirements: Store in original containers in a cool, dry, ventilated place.

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Not DOT regulated

Quantity Limitations

a) Passenger, Aircraft, or Railcar: none

Shipping Symbols: N/A

Vessel Stowage Requirements

a) Vessel Stowage: none

Hazard Class: N/A

ID No.: N/A

Packing Group: N/A

Label: N/A

Prepared By: W. B. Perry

Revision Notes: Complements or supercedes MSDS #WB955B

Disclaimer: The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.