

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking 129 CFR 1915, 1918, 19171

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration
Form 200-10-90
OMB No. 44-11387

SECTION I

MANUFACTURER'S NAME: Tappatic Corporation
 ADDRESS (Number, Street, City, State, and Zip Code): 851 Kettering Street - Irvine, CA 92714
 CHEMICAL NAME AND SYNONYMS: TRADE NAME AND SYNONYMS: Tappatic Cutting Fluid #2
 N.A. CHEMICAL FAMILY: FORMULA:

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	% (Unit)	ALLOYS AND METALLIC COATINGS	% (Unit)
PIGMENTS		BASE METAL	
CATALYST		ALLOYS	
VEHICLE		METALLIC COATINGS	
SOLVENTS CAS #8008-20-6	70	FILLER METAL OR CORE FLUX	
ADDITIVES		OTHERS	
OTHERS			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES: % TLV (Unit)

Trade name certifies that all requirements of the Toxic Substance Control Act as amended have been complied with. All components of this formulation are listed in the TSCA Inventory of Chemical Substances.

SECTION III - PHYSICAL DATA

BOILING POINT (°F)	340-560	SPECIFIC GRAVITY (H ₂ O=1)	.87
VAPOR PRESSURE (mm Hg)	<5	PERCENT VOLATILE BY VOLUME (%)	72
VAPOR DENSITY (AIR=1)	5.7	EVAPORATION RATE (Lb/100 Lb H ₂ O)	0.1
SOLUBILITY IN WATER	Insoluble	Viscosity (centistokes)	1300
APPEARANCE AND ODOR	Pale yellow, faint wintergreen scent.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Milling used)	Open cup 166°F.	FLAMMABLE LIMITS	LDL 0.7%	ULD 5%
CLOSED CUP	140°F.			
EXTINGUISHING MEDIA	Foam, Carbon Dioxide, Dry Chemical			
SPECIAL FIRE FIGHTING PROCEDURES	As with solvent fire.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None.			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Not established
 EFFECTS OF OVEREXPOSURE: Slightly irritate to eyes and skin.
 EMERGENCY AND FIRST AID PROCEDURES: Skin - wash with soap and water.
 Eyes - rinse with water for 15 minutes.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE	CONDITIONS TO AVOID
Stable	X	Heat, Flame, Water.
INCOMPATIBILITY (Material to avoid)	Oxidizing materials.	
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Monoxide.	
HAZARDOUS POLYMERIZATION	MAY OCCUR	CONDITIONS TO AVOID
	WILL NOT OCCUR	X

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
 Soak up with sawdust or soil absorbent. Extinguish open flames.
 WASTE DISPOSAL METHOD: Reclaim or chemical dump.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)	LOCAL EXHAUST	SPECIAL
VENTILATION	Provide adequate ventilation.	OTHER
PROTECTIVE GLOVES	Normally not needed.	EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT		Safety glasses w/ side shields.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
 Do not store at elevated temperatures. Keep away from flames or sparks.
 OTHER PRECAUTIONS
 Autoignition temperature is 444°F.

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MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME: Tapmatic Corporation
 ADDRESS (Number, Street, City, and Zip Code): 1851 KELLERIOR STREET, Irvine, CA 92714
 CHEMICAL NAME AND SYNONYMS: Tapmatic Cutting Fluid (I)
 FORMULA: Chlorinated hydrocarbon
 EMERGENCY TELEPHONE NO.: 714/261-9302

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (U/ml)	ALLOYS AND METALLIC COATINGS	%	TLV (U/ml)
BASE METAL					
ALLOYS					
METALLIC COATINGS					
VEHICLE					
SOLVENTS CAS #71-55-6	85	350 ppm	FILLER METAL		
ADDITIVES			PLUS COATING OR CORE FLUX		
OTHERS			OTHERS		
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					
Tapmatic certifies that all requirements of the Toxic Substance Control Act as amended have been complied with. All components of this formulation are listed in the TOSCA Inventory of Chemical Substance					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	165°	SPECIFIC GRAVITY (H ₂ O=1)	1.32
VAPOR PRESSURE (mm Hg.)	150	PERCENT VOLATILE BY VOLUME (%)	90%
VAPOR DENSITY (AIR=1)	4.5	EVAPORATION RATE	.35
SOLUBILITY IN WATER	Insoluble	FLASH POINT (°F.)	
APPEARANCE AND ODOR	Light brown liquid, wintergreen scent.	FLAMMABLE LIMITS	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): None
 EXTINGUISHING MEDIA: None
 SPECIAL FIRE FIGHTING PROCEDURES: Product is not flammable.
 UNUSUAL FIRE AND EXPLOSION HAZARDS:

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 350 ppm
 EFFECTS OF OVEREXPOSURE: Anesthetic effects may occur in concentrations approaching 1000 ppm.
 EMERGENCY AND FIRST AID PROCEDURES: Inhalation: Remove to fresh air. Eyes and/or skin: Flush with water.

SECTION VI - REACTIVITY DATA

STABILITY: UNSTABLE
 CONDITIONS TO AVOID: X Open flames, welding arcs.
 INCOMPATIBILITY (Materials to avoid): None listed.
 HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, Phosgene, Chlorine.
 HAZARDOUS POLYMERIZATION: MAY OCCUR
 WILL NOT OCCUR: X

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small leaks: wipe up immediately. Large spills: evacuate area, contain liquid, transfer to closed metal containers. Keep out of water supply. WASTE DISPOSAL METHOD: Send to reclaimor or chemical dump.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type): NOT REQUIRED.
 VENTILATION: LOCAL EXHAUST: Maintain T.V. MECHANICAL (General): Provide good ventilation. OTHER: Eye protection. Safety glasses w/ side shields.
 PROTECTIVE GLOVES: NOT NECESSARY.
 OTHER PROTECTIVE EQUIPMENT:

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Handle with reasonable care. Store in a cool dry place. Use with adequate ventilation.