MATERIAL SAFETY DATA SHEET
Tapmatic® AquaCut Cutting Fluid

Revision 3 **Revision Date: 7/29/08** **Supercedes:1/31/03**

Section 1 – Identification

Product Name:	Tapmatic® AquaCut Cutting Fluid
Part Number:	01216,01228,01205,01255, C01216,C01228,C01205,C01255
Chemical Name:	Blended Compound
Product Use:	A water-based cutting fluid designed for use on steel, aluminum, and other metals except magnesium.
Manufacturer Information:	LPS Laboratories, 4647 Hugh Howell Rd., Tucker, GA, USA 30084
TEL:	1 770-243-8800
Emergency Telephone Number:	1-800-424-9300 Chemtrec; Outside U.S.: (703) 527-3887
FAX:	1 770-243-8899
Website:	http://www.lpslabs.com

PLAIN LANGUAGE HAZARD SUMMARY

Material Safety Data Sheets can be confusing. Federal and State laws require us to include a great deal of technical information that probably won't help the non-professional. LPS includes this "PLAIN LANGUAGE HAZARD SUMMARY" to address the questions and concerns of the average worker. If you have additional health, safety or product questions, don't hesitate to call us at 800/241-8334.

Worker Toxicity

Tapmatic® AquaCut Cutting Fluid is an industrial cutting fluid. Tapmatic® AquaCut Cutting Fluid. Contains Alkanoamine, which is a mild eye irritant and extended exposure to skin may cause irritation. Wear protective eyewear while using it and avoid prolonged skin exposure. For more exposure and first aid information, refer to MSDS Sections 2, 8 and 11.

Flammability

Tapmatic® AquaCut Cutting Fluid has no flashpoint and is considered nonflammable.

Disposal

Dispose of in accordance with local, state, provincial, and federal regulations. See section 13 for more details.

Section 2 – Hazards identification

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Emergency Overview: CAUTION: May cause eye and skin irritation.

Primary route(s) of entry: Skin and Eye contact.

Potential Acute Health Effects:

Eyes: Irritating to eyes.

Skin: Repeated exposure may cause skin dryness or defatting of skin.

Inhalation: Excessive inhalation of vapors may cause irritation of the respiratory tract.

Ingestion: Not a likely route of exposure. Ingestion may result in nausea, abdominal discomfort, or diarrhea.

Potential Chronic Health Effects:

Carcinogenic Effects: NTP: No **OSHA:** No **ACGIH:** No

Mutagenic Effects: None

Teratogenic Effects: None

Medical conditions aggravated by exposure: None known from normal exposure.

Signs and Symptoms:
Stinging in eyes. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis).

Section 3 – Compositon / Information on Ingredients

Component	CASRN	Weight Percent
Proprietary Alkanolamine	NJTSRN 254504001-5144	1 - 3%
Proprietary Polyether Phosphate	NJTSRN 800967-5555P	0.1 - 1.0%

Section 4 – First Aid Measures

Eyes: Check for and remove contact lenses. If irritation or redness develops, flush eyes with cool, clean, low-pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. Do not use eye ointment. Seek medical attention immediately.

Skin: Remove contaminated shoes and clothing. Clean affected area thoroughly with mild soap and water. Do not use ointments. Seek medical attention if irritation persists.

Inhalation: Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, seek medical attention immediately.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention immediately.

Section 5 – Fire Fighting Measures

Products of Combustion: Carbon monoxide and carbon dioxide.

Firefighting media: SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam.

Sensitivity to Impact: None. **Sensitivity to Static Discharge:** None.

Protection Clothing (Fire): Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.

Special Remarks on Explosion Hazards: None.

Section 6 – Accidental Release Measures

Containment Procedures	Contain and recover spilled liquid when possible.	
Clean-Up Procedures	**Small Spill and Leak:**	Absorb with an inert material and dispose of properly.
	Large Spill and Leak:	Pick up free liquid for disposal using absorbent pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal.
Evacuation Procedures	Ventilate area of leak or spill. Keep unnecessary and unprotected people away.	
Special Procedures	Ventilate area. Wear appropriate protective equipment during cleanup.	

Section 7 – Handling and Storage

Handling: Avoid contact with skin. Wash thoroughly after handling.

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Storage: Keep containers sealed until ready for use. Avoid excessive long-term storage temperatures to prolong shelf life. Keep container in a cool, well-ventilated area. Store below 120°F.

Precautions to be taken in handling and storage: Store all materials in dry, well-ventilated area.

Section 8 – Exposure Controls / Personal Protection

Exposure Guidelines:

Component	CASRN	OSHA TWA-PEL	OSHA STEL	ACGIH-TLV	ACGIH-STEL	NIOSH REL
Proprietary Alkanolamine	NJTSRN 254504001-5144	Not Established	Not Established	Not Established	Not Established	Not Established
Proprietary Polyether Phosphate	NJTSRN 800967-5555P	Not Established	Not Established	Not Established	Not Established	Not Established

Engineering measures Provide general and/or local exhaust ventilation to keep exposures below the exposure guidelines.

Personal protective equipment

Eye protection Safety glasses with side shields conforming to appropriate regulations. Eye wash fountain and emergency shower facilities are recommended.

Hand protection Normally no hand protection is required; however, using chemical resistant gloves (i.e., nitrile) is recommended.

Respiratory protection Typical use of this product under normal conditions does not require the use of respiratory protection. If necessary use NIOSH approved respiratory protection (i.e., organic vapor cartridge).

General Hygiene Considerations Wash throughly after handling. Have eye-wash facilities immediately available.

Section 9 – Physical and Chemical Properties

Appearance:	Liquid	**Color:**	Clear, Turquoise
Odor/Taste:	Cinnamon	**Vapor Pressure:**	18 mmHg
Solubility Description:	100% in water	**Evaporation Rate:**	1 (BuAc=1)
Boiling Point:	212°F (100°C)	**Flash Point:**	Nonflammable
Specific Gravity (Water=1):	1.0	**Flash Point Method:**	Nonflammable
Vapor Density (Air=1):	~ 0.6	**Auto Ignition Temperature (°C):**	Not Applicable
V.O.C. Content:	0	**Partition Coefficient (octanol/water):**	>1
Flammable limits (estimated):	LOWER: NA UPPER: NA	**Viscosity:**	Not Established
pH:	8.0 – 9.0	**Odor threshold**	Not Established
Melting Point	Not Established	**Volatiles:**	95%
Decomposition Temperature	Not Established		

Section 10 – Chemical Stability and Reactivity

Chemical Stability: Product is stable under recommended storage conditions.

Conditions to Avoid: Avoid freezing and high temperatures. Avoid substances that react with water.

Incompatibility: Reactive or incompatible with oxidizing agents.

Hazardous Decomposition: These products are carbon oxides (CO, CO2).

Hazardous Polymerization: Will not occur.

Section 11 – Toxicological Information

Acute and Chronic Toxicity

A: General Product Information

An acute toxicity study of this product has not been conducted for this product. The following information is available for component(s) of this product.

Component	CASRN	LC_{50}	LD_{50}
Proprietary Alkanolamine	NJTSRN 254504001-5144	Not Available	8680 mg/kg/oral/rat* 20000 mg/kg/dermal/rabbit*
Proprietary Polyether Phosphate	NJTSRN 800967-5555P	Not available	>5000 mg/kg/oral/rat* >2000 mg/kg/dermal/rabbit*

*Note: Supplier data

Section 12 – Ecological Information

Mobility: Readily absorbed into soil.

Persistence and degradability: Biodegradable

Bioaccumulative potential: No bioaccumulation potential.

Other adverse effects: None Known

Ecotoxicity:

Effect on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes	Proprietary Polyether Phosphate	NJTSRN 800967-5555P	Acute LC_{50}	Freshwater Fish	100 - 1000 mg/L*
Acute Toxicity on Daphnia	Proprietary Polyether Phosphate	NJTSRN 800967-5555P	Acute EC_{50}	Freshwater Invertebrates	100 - 1000 mg/L*
Bacterial inhibition	No Data Available				
Growth inhibition of algae	Proprietary Polyether Phosphate	NJTSRN 800967-5555P	Acute EC_{50}	Unspecified Algae	10 -100 mg/L*
Bioaccumulation in fish	No Data Available				

*Note: Supplier data

Section 13 – Disposal Considerations

Waste Status: None.

Disposal: Waste must be disposed of in accordance with national, regional, provincial, and local environmental control regulations.

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive than federal laws and regulations.

Section 14 – Transportation Information

This material is not regulated by any mode of transportation.

Section 15 – Regulatory Information

U.S. Federal Regulations

RCRA Hazardous Waste No.: None.

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): None

Toxic Substances Control Act (TSCA):
All components of this product are TSCA inventory listed and/or are exempt.

Superfund Amendments and Reauthorization Act (SARA) Title III
SARA Section 311/312 (40 CFR 370) Hazard Categories: None

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372): No individual section 313 component is present at or above 1%

Section 112 Hazardous Air Pollutants (HAPs): None

State Regulations

New Jersey RTK: Water 7732-18-5 ● Propylene Glycol 57-55-6 ● Proprietary Alkanolamine NJTSRN 254504001-5144● Proprietary Polyether Phosphate NJTSRN 800967-5555P ● C10-16 Ethoxylated Alcohols 68002-97-1 ●

California: This product does **not** contain chemical(s) known to the State of California to cause cancer, birth defects or reproductive harm.

California and OTC States: This product is not regulated by consumer regulations.

International Regulations

Canadian Environmental Protection Act: All of the components of this product are included on the Canadian Domestic Substances list (DSL).

Canadian Workplace Hazardous Materials Information System (WHMIS):

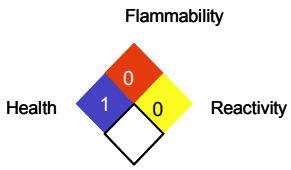
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Classification:

Other Regulations

Montreal Protocol listed ingredients:	None.
Stockholm Convention listed ingredients:	None.
Rotterdam Convention listed ingredients:	None.
RoHS Compliant:	Yes.

Section 16 • Other Information

	HMIS 1996		HMIS III		NFPA
MSDS# 11216 **Responsible Name:** **Clea Johnson** **Regulatory Affairs Coordinator**	Health:	1	Health:	[/]1	
	Flammability:	0	Flammability:	0	
	Reactivity	0	Physical Hazard:	0	

Notice to Reader:
To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Clea Johnson, Regulatory Affairs Coordinator
LPS Laboratories, A division of Illinois Tool Works