



# MATERIAL SAFETY DATA SHEET

## Tapmatic® #1 Gold Cutting Fluid

Revision 6

Revision Date 3/27/09

Supercedes: 10/16/08

### Section 1 • Product and Company Identification

**Product Name:** Tapmatic® #1 Gold Cutting Fluid

**Part Number:** 40320,40330,40340,40360,40312, C40312,C40320,C40330,C40340,C40360

**Chemical Name:** Petroleum Hydrocarbons

**Product Use:** A metal-cutting fluid designed for machining a variety of metals from steel to aluminum in lower speed applications such as hand-tapping.

**Manufacturer Information:** LPS Laboratories, 4647 Hugh Howell Rd., Tucker, GA, USA 30084

**TEL:** 1 770-243-8800

**FAX:** 1 770-243-8899

#### 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® #1 Gold Metal Cutting Fluid is a multi-purpose cutting fluid that simultaneously protects and lubricates to reduce friction and eliminate chip welding in tapping, drilling, reaming, and threading. It contains petroleum distillates that can be irritating to skin. Avoid extended exposure to unprotected skin. If the product soaks clothing (and even shoes), remove the affected clothing and launder it before wearing it again. Don't get in your eyes (it stings). If too much Tapmatic® #1 Gold Metal Cutting Fluid is used smoke can be produced; avoid breathing this smoke. Smoke from the Tapmatic Tapmatic® #1 Gold Metal Cutting Fluid can make you dizzy and even sick. For more exposure and first aid information, refer to MSDS Sections 2, 3, 8 and 11.

#### Flammability

Tapmatic® #1 Gold Metal Cutting Fluid is nonflammable having a flash point above 140°C. Under normal use conditions flammability isn't a concern, but don't apply the product onto red-hot metal surfaces or near sparks.

#### Disposal

If you spill Tapmatic® #1 Gold Metal Cutting Fluid, notify the proper environmental or safety department at your company right away. If Tapmatic® #1 Gold Metal Cutting Fluid becomes contaminated with another substance and is rendered unusable for cleaning the resulting mixture will fall under at least one hazardous classification. See section 13 for more details.



# MATERIAL SAFETY DATA SHEET

## Tapmatic® #1 Gold Cutting Fluid

Revision 6

Revision Date 3/27/09

Supercedes: 10/16/08

---

### 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 Aerosol: DANGER:** Contents Under Pressure. Harmful or Fatal if swallowed.

**Emergency Overview Bulk: CAUTION:** Harmful or fatal if swallowed.

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

#### Potential Acute Health Effects:

**Eyes:** Irritating to eyes.

**Skin:** Repeated exposure may cause skin dryness or cracking.

**Inhalation:** High vapor concentrations may cause headaches, dizziness, nausea, and anesthetic effects.

**Ingestion:** If swallowed, call a physician immediately. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person. Aspiration into lungs may cause pneumonia or death.

#### Potential Chronic Health Effects:

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

**Mutagenic Effects:** None

**Teratogenic Effects:** None

**Target Organs:** None

**Medical conditions aggravated by exposure:** None known at this time. As precaution, persons with pre-existing skin disorders should avoid contact.

#### Signs and Symptoms:

Stinging in eyes. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis). Breathing of high mist concentrations may cause headaches, stupor, irritation of throat and eyes, and kidney effects.

---

### Section 3 • Composition /Information on Ingredients

---

Component	CASRN	Weight Percent
Distillates (Petroleum), Hydrotreated Heavy	64742-52-5	70 - 80%
Dipropylene Glycol Monobutyl Ether	29911-28-2	1 - 5%
Carbon Dioxide Propellant (Aerosol only)	124-38-9	1 - 5%



# MATERIAL SAFETY DATA SHEET

## Tapmatic® #1 Gold Cutting Fluid

Revision 6

Revision Date 3/27/09

Supersedes: 10/16/08

---

### 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. Cool containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosions.

**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. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles.

**General Fire Hazards:** While this material is not considered flammable, high heat will cause product to boil, evolving vapor that could cause explosive rupture of closed containers.

**Special Remarks on Explosion Hazards:** Intense heat created by fire will cause aerosols to burst.

---

### Section 6 • Accidental Release Measures

---

**Containment Procedures** Contain and recover spilled liquid when possible.

**Clean-Up Procedures**

<b>Small Spill and Leak:</b>	Absorb with an inert material and dispose of properly.
<b>Large Spill and Leak:</b>	Ventilate area. Block the path of any flowing material using soil, gravel, or other readily available material. Absorb with dry earth, sand or other non-combustible material and dispose of properly.

**Evacuation Procedures** Ventilate area of leak or spill. Keep unnecessary and unprotected people away.

**Special Procedures** Wear appropriate protective equipment during cleanup.



# MATERIAL SAFETY DATA SHEET

## Tapmatic® #1 Gold Cutting Fluid

Revision 6

Revision Date 3/27/09

Supersedes: 10/16/08

### Section 7 • Handling and Storage

**Handling:** After handling, always wash hands thoroughly with soap and water. Use only with adequate ventilation. Avoid breathing vapors or spray mists. Avoid contact with eyes, skin, and clothing.

**Storage:** 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. Avoid breathing vapors. Ground and bond containers before transferring materials.

### Section 8 • Exposure Controls / Personal Protection

#### Exposure Guidelines:

Component	CASRN	OSHA TWA-PEL	OSHA STEL	ACGIH TLV	ACGIH STEL	OTHER LIMITS
Distillates (Petroleum), Hydrotreated Heavy	64742-52-5	5 mg/m <sup>3</sup> oil mist*	Not Established	5 mg/m <sup>3</sup> oil mist*	10 mg/m <sup>3</sup> oil mist	Not Established
Dipropylene Glycol Mono Butyl Ether	29911-28-2	10 mg/m <sup>3</sup> *	Not Established	Not Established	Not Established	Not Established
Carbon Dioxide (aerosol only)	124-38-9	5000 ppm	Not Established	5000 pm	30000 ppm	5000 CANADA TWA

\*Note: Exposure guidelines provided by supplier.

**Engineering Controls:** Provide general and/or local exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

#### Personal Protection:

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

**Respiratory:** Typical use of this product under normal conditions does not require the use of respiratory protection. If extended spraying of product will be made under poor ventilation, use appropriate organic vapor filtering respirators.

**Hands:** Normally no hand protection is required; however, if product will be sprayed for an extended period, "overspray" onto skin may occur. If so, use chemically resistant gloves conforming to appropriate regulations. Please observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves. Take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and the contact time.

**General Hygiene Considerations:** Wash thoroughly after handling. Have eye-wash facilities immediately available. If there is a likelihood of splashing, oil resistant clothing should be worn. Never wear oil soaked clothing. Launder or dry clean before wearing. Discard soaked shoes



# MATERIAL SAFETY DATA SHEET

## Tapmatic® #1 Gold Cutting Fluid

Revision 6

Revision Date 3/27/09

Supersedes: 10/16/08

---

### Section 9 • Physical and Chemical Properties

---

<b>Appearance:</b>	Liquid.	<b>Color:</b>	Gold
<b>Odour/Taste:</b>	Petroleum	<b>Vapour Pressure:</b>	<7 Pascals @ 20 °C
<b>Solubility Description:</b>	Not soluble in water.	<b>Evaporation Rate:</b>	<0.1(BuAc=1)
<b>Boiling Point:</b>	241°C (466°F)	<b>Flash Point:</b>	149°C (300°F)
<b>Specific Gravity (Water=1):</b>	0.88-0.90 @ 20 °C	<b>Flash Point Method:</b>	Cleveland Open Cup
<b>Vapour Density (air=1):</b>	>1	<b>Auto Ignition Temperature (°C):</b>	Not Established
<b>V.O.C. Content:</b>	0 g/L	<b>Partition Coefficient (octanol/water):</b>	<1
<b>Flammable limits (estimated):</b>	LOWER: N.E. UPPER: N.E.	<b>Viscosity:</b>	<100 mm <sup>2</sup> /second @ 25°C
<b>pH:</b>	Not applicable	<b>Melting Point</b>	Not Determined
<b>Decomposition Temperature:</b>	Not Determined	<b>Volatiles:</b>	0%

---

### Section 10 • Stability and Reactivity

---

<b>Chemical Stability:</b>	Product is stable under recommended storage conditions.
<b>Conditions to Avoid:</b>	Do not store near sources of intense heat.
<b>Incompatibility:</b>	Reactive or incompatible with oxidizing agents.
<b>Hazardous Decomposition:</b>	Combustion will generate smoke, possibly thick and choking, resulting in zero visibility and combustion products include carbon monoxide and carbon dioxide.
<b>Hazardous Polymerization:</b>	Will not occur.



# MATERIAL SAFETY DATA SHEET

## Tapmatic® #1 Gold Cutting Fluid

Revision 6

Revision Date 3/27/09

Supersedes: 10/16/08

### Section 11 • Toxicological Information

#### Acute and Chronic Toxicity

##### A: General Product Information

An acute toxicity study of this product has not been conducted. Information given in this section relates only to individual constituents contained in this preparation.

##### B: Component Analysis

Ingredients	CASRN	LC-50	LD-50
Distillates (Petroleum), Hydrotreated Heavy	64742-52-5	Not established	3.2 g/kg dermal/rabbit
Dipropylene Glycol Mono Butyl Ether	29911-28-2	>2.04 mg/L aerosol rat*	3700 mg/kg female-4400mg/kg male/oral/rat* 5330 mg/kg female- 6490 mg/kg male/dermal/rabbit*
Carbon Dioxide (aerosol only)	124-38-9	Not established	Not established

### Section 12 • Ecological Information

<b>Mobility:</b>	Readily absorbed into soil.	<b>Persistence and degradability:</b>	Only slightly biodegradable
<b>Bioaccumulative potential:</b>	No bioaccumulation potential.	<b>Other adverse effects:</b>	None Known

If spilled, the 64742-52-5 constituent may kill grasses and small plants by interfering with transpiration. Spilled material may coat gill structures of fish resulting in suffocation if spilled in shallow, running water. This product may be toxic to amphibians by preventing dermal respiration. This product may also cause gastrointestinal distress to birds and mammals through ingestion.

#### Ecotoxicity:

Effect on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes	Dipropylene Glycol Mono Butyl Ether	29911-28-2	96-hr LC <sub>50</sub>	Poecilia reticulata	841 mg/L
Acute Toxicity on Daphnia	Dipropylene Glycol Mono Butyl Ether	29911-28-2	LC <sub>50</sub>	Daphnia	>1000 mg/L
Bacterial inhibition	No Data Available				
Growth inhibition of algae					
Bioaccumulation in fish					



# MATERIAL SAFETY DATA SHEET

## Tapmatic® #1 Gold Cutting Fluid

Revision 6

Revision Date 3/27/09

Supersedes: 10/16/08

### Section 13 • Disposal Considerations

**Waste Status:** **Aerosol product:** If depressurized and emptied to less than 2.5 cm of fluid contents are classified as non-hazardous waste under 40 CFR 261.7 (U.S.). If disposed of in its received form, this item carries waste code D003. (U.S.)

**Bulk product:** If discarded in its purchased form, this product is not a RCRA hazardous waste. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, and mixtures may change the classification.

**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 • Transport Information

#### Aerosol

D.O.T. Ground	Shipping Name:	ORM-D	UN Number:	NA
	Hazard Class:	NA	Technical Name:	NA
	Subclass:	NA	Hazard Label:	ORM-D Already on box
Road/Rail - ADR/RID	UN no:	1950	ADR Class:	2
	Packing group:	NA	Classification code:	5A
	Name and Description:	AEROSOLS, asphyxiant	Hazard ID no:	NA
	Labeling:	2.2		
IMDG-IMO	UN no:	1950	Class:	2.2
	Shipping Name:	Aerosols	Subsidiary Risk:	NA
	Packing Instructions:	NA	Packing group:	NA
	Marine pollutant:	NO	EmS:	F-D, S-U
IATA-ICAO	UN no:	1950	Class:	2.2
	Shipping Name:	AEROSOLS, Non-Flammable	Subclass	NA
	Packing instructions:	NA	Packing group:	NA
	Labeling:	Non-Flammable Gas		

#### Bulk

The bulk versions of this product are not regulated under any mode of transportation.



# MATERIAL SAFETY DATA SHEET

## Tapmatic® #1 Gold Cutting Fluid

Revision 6

Revision Date 3/27/09

Supercedes: 10/16/08

---

### Section 15 – Regulatory Information

---

#### U.S. Federal Regulations

**RCRA Hazardous Waste No.:** D003 (Aerosol only)

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** This product contains no Reportable Quantity (RQ) Substances.

**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:**

Sudden Release of Pressure (aerosols only), Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

**This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):** None

**Section 112 Hazardous Air Pollutants (HAPs):** None

#### State Regulations

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

**New Jersey Right to Know:**

**Aerosol:** Hydrotreated Petroleum Oil 64742-52-5 • Methyl Soyate 67784-80-9 • Dipropylene Glycol Monobutyl Ether 29911-28-2 • Methyl Ester 61788-61-2 • Carbon Dioxide 124-38

**Bulk:** Hydrotreated Petroleum Oil 64742-52-5 • Methyl Soyate 67784-80-9 • Dipropylene Glycol Monobutyl Ether 29911-28-2 • Methyl Ester 61788-61-2 • Proprietary Additive NJTS 800967-5492P

#### 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:**

Aerosol: Class A, Class D2B



Bulk: Class D2B







# MATERIAL SAFETY DATA SHEET

## Tapmatic® #1 Gold Cutting Fluid

Revision 6

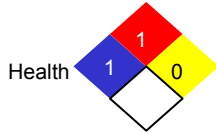
Revision Date 3/27/09

Supercedes: 10/16/08

### Other Regulations

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

### Section 16 • Other Information

MSDS#40312 Responsible Name: Clea Johnson Regulatory Affairs Coordinator	HMIS 1996	HMIS III	<b>NFPA</b> Flammability 
	<b>Health:</b> 1	<b>Health:</b> [1]	
	<b>Flammability:</b> 1	<b>Flammability:</b> 1	
	<b>Reactivity:</b> 0	<b>Physical Hazard aerosol:</b> 2 <b>bulk:</b> 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 L Johnson, Regulatory Affairs Coordinator  
 LPS Laboratories  
 A division of Illinois Tool Works