



MATERIAL SAFETY DATA SHEET

Tapmatic[®] Dual Action #2 Cutting Fluid

Revision Date: 10/18/2010 Supercedes: 7/30/2008

Section 1 • Product and Company Identification

Product Name: Tapmatic[®] Dual Action #2 Cutting Fluid

Part Number: 40220,40230,40240,40260,C40220,C40230, C40240,C40260

Chemical Name: Petroleum Hydrocarbons

Product Use: A metal-cutting fluid safe for tapping, drilling, reaming, threading or finishing on aluminum.

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

TEL: USA & Canada: 1 800 241-8334
Outside USA and Canada 1 770-243-8800

Emergency Telephone Number: Chemtrec: USA&Canada 1-800-424-9300
Outside USA and Canada: +1 (703) 527-3887

FAX: USA & Canada: 1 800 543-1563
Outside USA and Canada 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 Dual Action Plus #2 Cutting Fluid is an industrial cutting fluid designed especially for aluminum 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). Do not ingest or swallow Tapmatic Dual Action Plus #2 Cutting Fluid, it may be harmful or even fatal if aspirated into lungs. If too much Tapmatic Dual Action Plus #2 Cutting Fluid is used smoke can be produced; avoid breathing this smoke. Smoke from the Tapmatic Dual Action Plus #2 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 Dual Action Plus #2 Cutting Fluid is combustible having a flash point above 74°C /165°F (minimum). Store in cool well-ventilated place. Keep away from flames and hot surfaces.

Disposal

If you spill Tapmatic Dual Action Plus #2 Cutting Fluid, notify the proper environmental or safety department at your company right away. If Tapmatic Dual Action Plus #2 Cutting Fluid becomes contaminated with another substance and is rendered unusable, the resulting mixture may fall under at least one hazardous classification. See section 13 for more details.



MATERIAL SAFETY DATA SHEET

Tapmatic® Dual Action #2 Cutting Fluid

Revision Date: 10/18/2010 Supercedes: 7/30/2008

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: Not applicable

Bulk: **DANGER:** Combustible. 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 IARC: 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 smoke from burning may cause headaches, stupor, irritation of throat and eyes, and kidney effects.

Section 3 • Composition /Information on Ingredients

Component	CASRN	Weight Percent
Aliphatic Hydrocarbon	64742-47-8	70 – 80%



MATERIAL SAFETY DATA SHEET

Tapmatic® Dual Action #2 Cutting Fluid

Revision Date: 10/18/2010 Supercedes: 7/30/2008

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.

Special Remarks on Explosion Hazards: None.

Section 6 • Accidental Release Measures

- | | | |
|-------------------------------|--|--|
| Containment Procedures | Small Spill and Leak: | Absorb with an inert material and dispose of properly. |
| | Large Spill and Leak: | 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. |
| Clean-Up Procedures | Recover free product and place in suitable container for 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. | |



MATERIAL SAFETY DATA SHEET
Tapmatic® Dual Action #2 Cutting Fluid
 Revision Date: 10/18/2010 Supercedes: 7/30/2008

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 mists. Avoid contact with eyes, skin, and clothing.

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 between 40°F (4.4°C)-120°F (49°C).

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-STEEL	NIOSH REL
Aliphatic Hydrocarbon	64742-47-8	Not Established	Not Established	Not Established	Not Established	100 ppm* 525 mg/m ³ *

*Note: Exposure guidelines provided by supplier.

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

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 Use protective 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.

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 thoroughly after handling. Have eye-wash facilities immediately available.



MATERIAL SAFETY DATA SHEET

Tapmatic® Dual Action #2 Cutting Fluid

Revision Date: 10/18/2010 Supercedes: 7/30/2008

Section 9 • Physical and Chemical Properties

Appearance:	Liquid	Color:	Medium Amber
Odor:	Mild fatty	Evaporation Rate:	<0.1 (BuAc=1)
Solubility Description:	Not soluble in water	Flash Point:	>74°C(165°F)
Boiling Point:	~195°C(383°F)	Flash Point Method:	TCC
Specific Gravity (H2O=1):	0.83-0.85	Decomposition Temperature:	Not Established
Vapor Density (air = 1):	>1	Auto ignition temperature:	>228°C(442°F)
Vapor Pressure:	<0.05 mmHg at 20°C	Flammable limits (estimated):	LOWER: 0.6% UPPER: 7%
Rule 1171 PPC:	Not Established	Partition Coefficient (octanol/water):	>1
V.O.C. Content:	Aerosol: Not Applicable Bulk: 0%, 0g/L, 0 lb/gal per CARB, OTC, and EPA definition	Odor Threshold:	Not Established
Melting Point:	Not Established	Viscosity:	Not Established
pH:	Not Applicable	Volatiles:	70 - 75%
Heat of combustion:	Not Established		

Section 10 • Stability and Reactivity

Chemical Stability:	Product is stable under recommended storage conditions.
Conditions to Avoid:	Keep away from heat and ignition sources.
Incompatibility:	Reactive or incompatible with oxidizing agents.
Hazardous Decomposition:	Combustion will generate smoke, possibly thick and choking, resulting in zero visibility and combustion products include carbon monoxide and carbon dioxide.
Hazardous Polymerization:	Will not occur.



MATERIAL SAFETY DATA SHEET
Tapmatic® Dual Action #2 Cutting Fluid
 Revision Date: 10/18/2010 Supercedes: 7/30/2008

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
Aliphatic Hydrocarbon	64742-47-8	>6.8 mg/L inhalation	>5 g/kg oral/rat

Section 12 • Ecological Information

Mobility: May adsorb to sediment **Persistence and degradability:** Only slightly biodegradable

Bioaccumulative potential: None expected. **Other adverse effects:** None known

Ecotoxicity:

Effect on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes					No Data Available
Acute Toxicity on Daphnia					
Bacterial inhibition					
Growth inhibition of algae					
Bioaccumulation in fish					

Section 13 • Disposal Considerations

Waste Status: If discarded in its purchased form, this product is not a RCRA hazardous waste.

Disposal: Waste must be disposed of in accordance with federal, state, 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

This product is not regulated under any mode of transportation.



MATERIAL SAFETY DATA SHEET

Tapmatic® Dual Action #2 Cutting Fluid

Revision Date: 10/18/2010
Supercedes: 7/30/2008

Section 15 • Regulatory Information

U.S. Federal Regulations

RCRA Hazardous Waste No.: None.

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:

Immediate (Acute) 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.

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

New Jersey Right to Know:

Aliphatic Hydrocarbon 64742-47-8 • Lard Oil 8016-28-2 • Fatty Acid Methyl Esters 67784-80-9 • Methyl Salicylate 119-36-8 • Benzyl Acetate 140-11-4 •

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:

Class B3, Class D2B



Other Regulations

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

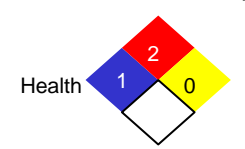


MATERIAL SAFETY DATA SHEET

Tapmatic® Dual Action #2 Cutting Fluid

Revision Date: 10/18/2010 Supercedes: 7/30/2008

Section 16 • Other Information

MSDS#40220 Responsible Name: Clea George Regulatory Affairs Coordinator Telephone: +1 770 243-8800	HMIS 1996	HMIS III	NFPA Flammability  Health 1 2 0 Reactivity		
	Health:	1		Health:	[]1
	Flammability:	2		Flammability: aerosol	N.A.
				Flammability: bulk	2
	Reactivity:	0		Physical Hazard: aerosol	N.A.
Physical Hazard: bulk			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 George, Regulatory Affairs Coordinator
 LPS Laboratories
 A division of Illinois Tool Works