



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	LPS® Tapmatic® TriCut®
Version #	02
Issue date	10-18-2012
Revision date	12-04-2012
Supersedes date	11-30-2012
CAS #	Mixture
Part Number	05316, 05328
Product use	A metal-cutting fluid designed for machining hard metals such as stainless steels especially in hand-tapping applications.
Manufacturer information	LPS Laboratories, a division of Illinois Tool Works 4647 Hugh Howell Rd Tucker, GA 30084 United States www.lpslabs.com 1-800-241-8334 / 770-243-8800 Chemtrec 1-800-424-9300

2. Hazards Identification

OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Eye contact. Skin contact. Ingestion. Inhalation.
Eyes	Avoid contact with eyes. Causes eye irritation.
Skin	Avoid contact with the skin. May cause skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Inhalation	Prolonged inhalation may be harmful. Avoid breathing dust/fume/gas/mist/vapors/spray. May cause irritation of respiratory tract.
Ingestion	Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Signs and symptoms	Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Irritating to eyes and skin.
Potential environmental effects	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Chloroalkanes	61788-76-9	40 - 60
Chlorinated Paraffin	63449-39-8	20 - 40
Other components below reportable levels		20 - 40
Composition comments	Chlorinated paraffins (chloroalkanes) are a group of compounds varying in molecular structure by carbon length and degree of chlorination. The materials used in this product are medium-chain, C14-17 chlorinated paraffins (chloroalkanes).	

4. First Aid Measures

First aid procedures	
Eye contact	Remove contact lenses, if present and easy to do. Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Skin contact	Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim inhaled the substance. Get medical attention if symptoms persist.

Ingestion

Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

5. Fire Fighting Measures

Flammable properties

Not flammable by OSHA criteria.

Extinguishing media

Suitable extinguishing media

Extinguishing media - large fires: Dry chemical powder.
Carbon dioxide (CO₂). Extinguishing media - small fires:

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Specific hazards arising from the chemical

No unusual fire or explosion hazards noted.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Structural firefighters protective clothing will only provide limited protection.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.

Specific methods

In the event of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk.

Hazardous combustion products

Aldehydes, incomplete combustion products, smoke, fume, sulfur oxides, oxides of carbon

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them.

Methods for containment

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Methods for cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

7. Handling and Storage

Handling

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. All equipment used when handling the product must be grounded. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. When using do not eat or drink. Wash thoroughly after handling.

Storage

Keep only in the original container. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

8. Exposure Controls / Personal Protection

Engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye / face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.
Respiratory protection	No personal respiratory protective equipment normally required. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
General hygiene considerations	When using do not smoke.

9. Physical & Chemical Properties

Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Dark brown
Odor	Sulphurous. Berry.
Odor threshold	Not established
pH	Not applicable
Vapor pressure	Not established
Vapor density	> 1 (air = 1)
Boiling point	400 °F (204.44 °C) estimated
Melting point/Freezing point	Not established
Solubility (water)	Not soluble in water
Specific gravity	1.124
Relative density	Not available.
Flash point	> 200.00 °F (> 93.33 °C) Tag Closed Cup
Flammability limits in air, upper, % by volume	Not available.
Flammability limit - upper (%) temperature	Not established
Flammability limits in air, lower, % by volume	Not available.
Flammability limit - lower (%) temperature	Not established
Auto-ignition temperature	Not established
VOC	0 % per State and Federal Consumer Product Regulations
Evaporation rate	< 1 BuAc
Viscosity	95 cP @ 77°F; 61 cP @ 104°F
Percent volatile	0 %
Partition coefficient (n-octanol/water)	Not determined
Other data	
Decomposition temperature	Not established
Density	9.40 lb/gal
Heat of combustion	Not established

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Incompatible materials	Incompatible with oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. Hydrogen chloride. Chlorine. Carbon oxides. Sulfur oxides.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Chronic effects	Prolonged inhalation may be harmful.
Carcinogenicity	Not expected to be hazardous by OSHA criteria.

12. Ecological Information

Persistence and degradability	Not inherently biodegradable.
Bioaccumulation / Accumulation	
Mobility in environmental media	The product is immiscible with water and will sediment in water systems.

13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

General	DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.
DOT	

Basic shipping requirements:

UN number	UN3082
Proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (Chloroalkanes), MARINE POLLUTANT
Hazard class	9
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Special precautions	Read safety instructions, MSDS and emergency procedures before handling.
Additional information:	
Special provisions	8, 146, 335, IB3, T4, TP1, TP29
Packaging exceptions	155
Packaging non bulk	203

IATA

UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Chloroalkanes)
Transport hazard class(es)	9
Packing group	III
ERG code	9L

IMDG

UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chloroalkanes), MARINE POLLUTANT
Transport hazard class(es)	9
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F

DOT; IATA; IMDG





15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Chlorinated Paraffin (CAS 63449-39-8) 1.0 % N583

Chloroalkanes (CAS 61788-76-9) 1.0 % N583

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Chlorinated Paraffin (CAS 63449-39-8) Listed. N583

Chloroalkanes (CAS 61788-76-9) Listed. N583

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
 Immediate Hazard - No
 Delayed Hazard - No
 Fire Hazard - Yes
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Chlorinated Paraffin (CAS 63449-39-8)

Listed: July 1, 1989 Carcinogenic.

Chloroalkanes (CAS 61788-76-9)

Listed: July 1, 1989 Carcinogenic.

US - New Jersey RTK - Substances: Listed substance

Chlorinated Paraffin (CAS 63449-39-8)

Listed.

Chloroalkanes (CAS 61788-76-9)

Listed.

US. Massachusetts RTK - Substance List

Chlorinated Paraffin (CAS 63449-39-8)

Chloroalkanes (CAS 61788-76-9)

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 1

Flammability: 1

Physical hazard: 0

NFPA ratings

Health: 1

Flammability: 1

Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Alternate Trade Names

Hazards Identification: EU Hazard Classifications

Accidental Release Measures: Methods for cleaning up

Physical & Chemical Properties: Multiple Properties

Transport Information: Material Transportation Information

Regulatory Information: United States

GHS: Classification