



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	LPS® Tapmatic® TriCut	
Version #	01	
Issue date	12-10-2014	
CAS #	Mixture	
Part Number	05316, 05328, C05316, C05328	
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, Inc. 4647 Hugh Howell Rd Tucker, Georgia 30084 United States www.lpslabs.com 1-800-241-8334/ 770-243-8800 Chemtrec 1-800-424-9300	
Supplier	Not available.	

2. Hazards Identification

Emergency overview	WARNING May be irritating to eyes. May be irritating to the skin. May cause harm to breastfed babies.
Potential health effects	
Routes of exposure	Eye contact. Skin contact. Inhalation. Ingestion.
Eyes	Avoid contact with eyes.
Skin	Avoid contact with the skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Inhalation	Do not breathe dust/fume/gas/mist/vapors/spray.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Do not ingest.
Signs and symptoms	Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness, and discomfort.
Potential environmental effects	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

Non-hazardous components	CAS #	Percent
C14-17 Chlorinated Paraffin (Chloroalkane)	85535-85-9	30 - 40

4. First Aid Measures

First aid procedures	
Inhalation	If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	In the unlikely event of swallowing contact a physician or poison control center.
Notes to physician	Symptoms may be delayed.
General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties	Not flammable by WHMIS criteria.
Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Fire fighting equipment/instructions	Containers should be cooled with water to prevent vapor pressure build up.
Explosion data	
Sensitivity to static discharge	None known.
Sensitivity to mechanical impact	None known.
Hazardous combustion products	May include oxides of carbon.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. In case of spills, beware of slippery floors and surfaces. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the MSDS.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	<p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the MSDS.</p>

7. Handling and Storage

Handling	Obtain special instructions before use. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in area provided with appropriate exhaust ventilation. Avoid contact during pregnancy/while nursing. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. When using, do not eat, drink or smoke.
Storage	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the MSDS).

8. Exposure Controls / Personal Protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye/face protection	Chemical goggles are recommended.
Skin protection	Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
Hand protection	Wear appropriate chemical resistant gloves. Nitrile gloves are recommended.

9. Physical & Chemical Properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Dark brown.
Odor	Sulphurous. Berry.
Odor threshold	Not available.
pH	Not available.

Vapor pressure	Not available.
Vapor density	> 1 (air = 1)
Boiling point	400 °F (204.44 °C) (estimated)
Melting point/Freezing point	Not available.
Solubility (water)	Not soluble in water
Specific gravity	1.12
Relative density	Not available.
Flash point	> 200.0 °F (> 93.3 °C) Tag Closed Cup
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
VOC	0 % per US State & 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 available.
Other data	
Density	9.40 lb/gal
Flammability (solid, gas)	Not applicable.

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	Strong oxidizing agents. Alkali metals. Alkali earth metals. At elevated temperatures: Iron. Zinc. Aluminum.
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	Reacts violently with strong alkaline substances.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
C14-17 Chlorinated Paraffin (Chloroalkane) (CAS 85535-85-9)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 13.5 g/kg, 24 Hours
		> 10 ml/kg, 24 Hours
	Rat	> 2.5 ml/kg, 24 Hours
<i>Inhalation</i>		
LC50	Rat	> 48170 mg/m3, 1 Hours
		> 3300 mg/l, 1 Hours
<i>Oral</i>		
LD50	Rat	> 4000 mg/kg
		> 10 ml/kg
Acute effects	None known.	
Sensitization	Not classified.	
Chronic effects	None known.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/irritation	Direct contact with eyes may cause temporary irritation.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive effects	May cause harm to breastfed babies.
Teratogenicity	Not available.
Symptoms and target organs	Direct contact with eyes may cause temporary irritation. Exposure may cause temporary irritation, redness, or discomfort.
Synergistic materials	Not available.
Further information	Reproductive toxicity. Symptoms may be delayed.

12. Ecological Information

Ecotoxicological data	No ecotoxicity data noted for the ingredient(s).
Ecotoxicity	Very toxic to aquatic life with long lasting effects.
Environmental effects	Very toxic to aquatic life with long lasting effects.
Aquatic toxicity	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Persistence and degradability	Not inherently biodegradable.
Mobility in environmental media	The product is immiscible with water and will sediment in water systems.
Other adverse effects	None known.

13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. Transport Information

TDG

UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (C14-17 Chlorinated paraffin), MARINE POLLUTANT
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	Yes
Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.

IATA

UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (C14-17 Chlorinated paraffin)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	Yes
Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

IMDG

UN number	UN3082
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UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (C14-17 Chlorinated paraffin), MARINE POLLUTANT

Transport hazard class(es)

Class 9

Subsidiary risk -

Packing group III

Environmental hazards

Marine pollutant Yes

EmS F-A, S-F

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

IATA; IMDG; TDG



Marine pollutant



General information

DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

15. Regulatory Information

Canadian regulations

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

WHMIS status

Non-controlled

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

Disclaimer

LPS Laboratories cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Prepared by

Not available.