



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	LPS® Tapmatic® #1 Gold	
Version #	01	
Issue date	05-21-2014	
CAS #	Mixture	
Part Number	C40320, C40330, C40340	
Product use	A metal-cutting fluid designed for machining a variety of metals from steel to aluminium in lower speed applications such as hand-tapping.	
Manufacturer information	LPS Laboratories, a division of Illinois Tool Works 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	DANGER HARMFUL OR FATAL IF SWALLOWED. Irritating to eyes and skin.
Potential health effects	
Routes of exposure	Eye contact. Skin contact. Inhalation. Ingestion.
Eyes	Avoid contact with eyes. Causes eye irritation.
Skin	Avoid contact with the skin. Causes skin irritation.
Inhalation	Prolonged inhalation may be harmful. May cause irritation of respiratory tract. Do not breathe dust/fume/gas/mist/vapors/spray.
Ingestion	Harmful: may cause lung damage if swallowed. May be fatal if swallowed. Do not ingest.
Signs and symptoms	Skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation.
Potential environmental effects	Ecological injuries are not known or expected under normal use.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
METHYL SALICYLATE	119-36-8	0.1 - 1
Non-hazardous components	CAS #	Percent
Petroleum Oil	64742-52-5	70 - 80
Methyl Ester of Soybean Oil	67784-80-9	10 - 20
Dipropylene Glycol Monobutyl Ether	29911-28-2	1 - 5
Methyl Oleate	67762-26-9	1 - 5

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or 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.

Notes to physician

Provide general supportive measures and treat symptomatically.

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Not available.

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. For personal protection, see section 8 of the MSDS.

Environmental precautions

Do not contaminate water.

Methods for containment

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Methods for cleaning up

Should not be released into the environment.

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.

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

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

7. Handling and Storage**Handling**

Avoid release to the environment.

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

Not available.

Personal protective equipment**Eye/face protection**

Wear safety glasses with side shields (or goggles).

Skin protection

Wear suitable protective clothing.

Respiratory protection

No personal respiratory protective equipment normally required.

9. Physical & Chemical Properties**Appearance**

Liquid.

Physical state

Liquid.

Form

Liquid.

Color	Gold.
Odor	Slight petroleum odor
Odor threshold	Not established
pH	Not applicable
Vapor pressure	< 0.05 mm Hg @ 20 °C
Vapor density	> 1 (air = 1)
Boiling point	465.8 °F (241 °C)
Melting point/Freezing point	Not established
Solubility (water)	Not soluble
Specific gravity	0.88 - 0.9 @20 °C
Relative density	Not available.
Flash point	300.2 °F (149.0 °C) Cleveland Open Cup
Flammability limits in air, upper, % by volume	Not established
Flammability limits in air, lower, % by volume	Not established
Auto-ignition temperature	Not established
VOC	0 % per US State & Federal Consumer Product Regulations
Evaporation rate	< 0.1 BuAc
Viscosity	< 20 mm ² /s
Percent volatile	0 %
Partition coefficient (n-octanol/water)	< 1
Other data	
Decomposition temperature	Not established
Heat of combustion	Not established

10. Chemical Stability & Reactivity Information

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Dipropylene Glycol Monobutyl Ether (CAS 29911-28-2)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 42.1 ppm > 2.04 mg/l
<i>Oral</i>		
LD50	Mouse	2160 mg/kg
	Rat	2000 - 3000 ml/kg 1820 - 2730 mg/kg

Components	Species	Test Results
Methyl Oleate (CAS 67762-26-9)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
METHYL SALICYLATE (CAS 119-36-8)		
Acute		
<i>Dermal</i>		
LD50	Guinea pig	700 mg/kg 0.7 ml/kg
	Rabbit	> 5000 mg/kg
	Rat	>= 2500 mg/kg
<i>Inhalation</i>		
LC50	Mouse	> 400 mg/m3
	Rat	> 114 mg/m3 > 0.9 mg/l
<i>Oral</i>		
LD50	Dog	2100 mg/kg 2.1 g/kg
	Guinea pig	700 mg/kg
	Mouse	580 mg/kg
	Rabbit	1300 mg/kg
	Rat	887 mg/kg 0.887 g/kg
<i>Other</i>		
LD50	Mouse	890 mg/kg
Petroleum Oil (CAS 64742-52-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 2.5 mg/l
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg
Acute effects	May be harmful if swallowed. May be fatal if swallowed and enters airways.	
Sensitization	Not available.	
Local effects	Irritating to eyes and skin.	
Chronic effects	Prolonged inhalation may be harmful.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/irritation	Causes serious eye irritation.	
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Reproductive effects	This product is not expected to cause reproductive or developmental effects.	
Teratogenicity	Not available.	

Symptoms and target organs Irritating to eyes, respiratory system and skin. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Exposure may cause temporary irritation, redness, or discomfort.

Synergistic materials Not available.

12. Ecological Information

Ecotoxicological data No ecotoxicity data noted for the ingredient(s).

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Environmental effects Ecological injuries are not known or expected under normal use.

Aquatic toxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability Not inherently biodegradable.

Partition coefficient
METHYL SALICYLATE 2.55

Mobility in environmental media Readily absorbed into soil.

Other adverse effects None known.

13. Disposal Considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

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.

14. Transport Information

TDG
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

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 Controlled

WHMIS classification D2B - Other Toxic Effects-TOXIC

WHMIS labeling



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)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
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)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
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

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.