



# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Material name** Tapmatic® Dual Action Plus #2 Cutting Fluid  
**Recommended use** A metal-cutting fluid safe for tapping, drilling, reaming, threading or finishing on aluminum.  
**Version #** 01  
**CAS #** Mixture  
**Part Number** M40220, M40230, M40240, M40260  
**Supplier Name** MRO Chem Pty Ltd  
**Address** Level 19, 644 Chapel Street,  
South Yarra, Vic 3141, Australia.  
Tel: +61 (3)9823 6273  
Website: <http://www.mrochem.com.au>  
**In Case of Emergency** (Australia) +61 (4)3448 1129 (US) +1 703-527-3887  
**Manufacturer**  
**Company name** LPS Laboratories, a division of Illinois Tool Works, Inc.  
**Address** 4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.)  
**Website** <http://www.lpslabs.com>  
**E-mail** [sds@lpslabs.com](mailto:sds@lpslabs.com)

## 2. HAZARDS IDENTIFICATION

This material is considered to be hazardous according to regulatory guidelines (see Section 15 of the MSDS).

**Classification** Xn;R65, Xi;R36/38, R66-67  
**Risk phrase(s)** R36/38 Irritating to eyes and skin.  
R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapors may cause drowsiness and dizziness.  
**Safety phrase(s)** S23 Do not breathe gas/fumes/vapor/spray.  
S24/25 Avoid contact with skin and eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S60 This material and its container must be disposed of as hazardous waste.  
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Distillates Petroleum, Hydroteated Light	64742-47-8	> 60
Benzyl Acetate	140-11-4	< 10
Other components below reportable levels		10 - < 30

## 4. FIRST AID MEASURES

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Get medical attention if symptoms persist.  
**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.  
**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.  
**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.  
**General advice** If you feel unwell, seek medical advice (show the label where possible).  
**Notes to physician** Provide general supportive measures and treat symptomatically. Symptoms of overexposure can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting, and are reversible if exposure is stopped. In case of shortness of breath, give oxygen. Keep victim under observation.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media** Dry chemical powder. Water spray. Water fog. Foam.

<b>Extinguishing media which must not be used for safety reasons</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Unusual fire &amp; explosion hazards</b>	NFPA Rating Fire = 2. Materials that must be moderately heated or exposed to relative high ambient temperatures before ignition can occur.
<b>Specific hazards</b>	Combustible.
<b>Special protective equipment for fire-fighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Specific methods</b>	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 water spray to cool unopened containers. Move container from fire area if it can be done without risk. Use standard firefighting procedures and consider the hazards of other involved materials.
<b>HAZCHEM code</b>	None

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Local authorities should be advised if significant spillages cannot be contained. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch or walk through spilled material. Wear appropriate protective equipment and clothing during clean-up. Avoid skin contact and inhalation of vapors during disposal of spills. Ensure adequate ventilation.
<b>Environmental precautions</b>	Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
<b>Containment procedures</b>	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Do not touch or walk through spilled material. Dike the spilled material, where this is possible. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas.
<b>Methods for cleaning up</b>	Ventilate the contaminated area. Eliminate ignition sources including sources of electrical, static or frictional sparks. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.  Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations. This material and its container must be disposed of as hazardous waste.

## 7. HANDLING AND STORAGE

<b>Handling</b>	DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. All equipment used when handling the product must be grounded. Do not breathe vapor. Avoid contact with skin and eyes. Avoid prolonged exposure. Do not get this material on clothing. Use only in well-ventilated areas. Wear personal protective equipment. Wash thoroughly after handling. Avoid release to the environment. Do not empty into drains.
<b>Storage</b>	Do not handle or store near an open flame, heat or other sources of ignition. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Use care in handling/storage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values Components

Components	Type	Value
Benzyl Acetate (CAS 140-11-4)	TWA	10 ppm

### Recommended monitoring procedures

**Additional exposure data** Not available.

### Engineering measures to reduce exposure

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

#### Respiratory protection

No personal respiratory protective equipment normally required. Avoid breathing dust/fume/gas/mist/vapors/spray. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

#### Hand protection

Chemical resistant gloves are recommended.

#### Eye protection

Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

#### Skin and body protection

Do not get this material in contact with skin. Wear suitable gloves and eye/face protection. Chemical resistant gloves.

<b>General</b>	Use personal protective equipment as required.
<b>Environmental exposure controls</b>	Contain spills and prevent releases and observe national regulations on emissions. Environmental manager must be informed of all major releases.
<b>Hygiene measures</b>	When using do not smoke. Do not get in eyes. Avoid contact with skin. Wash hands after handling. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Liquid.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Amber
<b>Odor</b>	Mild. Oily.
<b>Odor threshold</b>	Not established
<b>pH</b>	Not applicable
<b>Vapor pressure</b>	< 0.05 mm Hg @ 20°C
<b>Vapor density</b>	> 1 (air = 1)
<b>Boiling point</b>	~195°C (383°F)
<b>Melting point/Freezing point</b>	Not established
<b>Solubility (water)</b>	Not soluble
<b>Specific gravity</b>	0.83 - 0.85 (water = 1)
<b>Flash point</b>	> 165.20 °F (> 74.00 °C) Tag Closed Cup
<b>Flammability limits in air, upper, % by volume</b>	7 %
<b>Flammability limits in air, lower, % by volume</b>	0.6 %
<b>Auto-ignition temperature</b>	> 442.4 °F (> 228 °C)
<b>VOC</b>	0 % per State and Federal Consumer Product Regulations
<b>Evaporation rate</b>	< 0.1 BuAc
<b>Viscosity</b>	Not established
<b>Percent volatile</b>	70 - 75 %
<b>Partition coefficient (n-octanol/water)</b>	> 1
<b>Other data</b>	
<b>Decomposition temperature</b>	Not established
<b>Heat of combustion</b>	Not established

## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
<b>Materials to avoid</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	At thermal decomposition temperatures, carbon monoxide and carbon dioxide.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	Harmful if swallowed.
<b>Routes of exposure</b>	Inhalation. Ingestion. Skin contact. Eye contact.
<b>Toxicological information</b>	Occupational exposure to the substance or mixture may cause adverse effects.
<b>Chronic toxicity</b>	Prolonged or repeated contact may cause drying, cracking, or irritation. Prolonged inhalation may be harmful.
<b>Sensitization</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Not classifiable as to carcinogenicity to humans.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Benzyl Acetate (CAS 140-11-4)

3 Not classifiable as to carcinogenicity to humans.

<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Reproductivity</b>	Based on available data, the classification criteria are not met.
<b>Epidemiology</b>	No epidemiological data is available for this product.
<b>Neurotoxicity</b>	No data available for this product.
<b>Local effects</b>	Irritating to eyes and skin. Harmful by inhalation and if swallowed.
<b>Symptoms and target organs</b>	Irritating to eyes, respiratory system and skin. Defatting of the skin. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
<b>Further information</b>	Symptoms may be delayed.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Not available.
<b>Persistence and degradability</b>	Not inherently biodegradable.
<b>Mobility</b>	The product is immiscible with water and will spread on the water surface.
<b>Bioaccumulation</b>	

### Bioaccumulative potential

#### Octanol/water partition coefficient log Kow

Tapmatic® Dual Action Plus #2 Cutting Fluid	> 1
Benzyl Acetate	1.96

<b>Environmental effects</b>	No data available for this product.
<b>Aquatic toxicity</b>	No data available for this product.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal instructions</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Waste from residues / unused products</b>	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).
<b>Contaminated packaging</b>	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

### ADG

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**HAZCHEM code** None

## 15. REGULATORY INFORMATION

**National regulations** This Material Safety Data Sheet was prepared in accordance with the Australia National Code of Practice for the Preparation of Material Safety Data Sheets (NOHSC: 2011.)

### Australia HVIC: Listed substance

Distillates Petroleum, Hydroteated Light (CAS 64742-47-8)	Listed.
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### Australia Medicines & Poisons Schedule 5: Use/Concentration/Exceptions

Distillates Petroleum, Hydroteated Light (CAS 64742-47-8)	Exception may apply, see the regulation for relevance.
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### Inventory status

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)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
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)

## 16. OTHER INFORMATION

<b>Disclaimer</b>	The information in the sheet was written based on the best knowledge and experience currently available.
<b>Issue date</b>	01-24-2013