

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name LPS® T-91

Recommended use A pH neutral degreaser designed to remove grease, oil and other contaminants from various

surfaces.

Version # 03
CAS # Mixture

Part Number M06328, M06301, M06305, M06355

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

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. This preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification Xi:R36/38

Risk phrase(s) R36/38 Irritating to eyes and skin.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS#	Percent	
1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	4080-31-3	< 10	
Alcohols, Ethoxylated	68439-46-3	< 10	
Hexamethylenetetramine	100-97-0	< 10	
Other components below reportable levels		> 60	

4. FIRST AID MEASURES

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If symptoms persist, get medical

attention.

Skin contact Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing

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. Call a physician or Poison Control Center 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 In the case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible). In case of shortness of breath, give oxygen. Keep victim under observation.

Notes to physician Provide general supportive measures and treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Extinguishing media which must not be used for safety

None known.

reasons

Unusual fire & explosion Not flammable by OSHA criteria. The product is not flammable.

hazards

Material name: LPS® T-91 MSDS AUSTRALIA

652 Version #: 03 Revision date: 12-09-2013 Issue date: 02-04-2013

Specific hazards None known.

Special protective equipment

for fire-fighters

Wear suitable protective equipment.

HAZCHEM code None.

Hazardous combustion

products

May include oxides of carbon.

General fire hazards No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

Personal precautionsWear appropriate personal protective equipment. Do not touch or walk through spilled material.

Avoid inhalation of vapors and spray mists.

Environmental precautions No special environmental precautions required.

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

Collect spillage.

Methods for cleaning up

This product is miscible in water. Stop the flow of material, if this is without risk. Dike the spilled

material, where this is possible. Soak up with inert absorbent material. Following product recovery,

flush area with water. For waste disposal, see section 13 of the MSDS.

7. HANDLING AND STORAGE

Handling Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Do not breathe vapors or

spray mist. Do not ingest. Wash hands thoroughly after handling. Use personal protective

equipment as required.

Storage Storage temperature: between 0°F and 49°F.

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).

Recommended monitoring procedures

Additional exposure data Not available.

Engineering measures to

reduce exposure

General ventilation normally adequate.

Personal protective equipment

Respiratory protection
No personal respiratory protective equipment normally required. Avoid breathing

dust/fume/gas/mist/vapors/spray. When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Hand protection For prolonged or repeated skin contact use suitable protective gloves. Chemical resistant gloves

are recommended.

Eye protection Wear safety glasses with side shields. Eye wash fountain and emergency showers are

recommended.

Skin and body protection Avoid contact with the skin. Wear suitable protective clothing and gloves.

General Avoid contact with eyes. Avoid contact with skin. Use personal protective equipment as required.

Environmental exposure

controls

Contain spills and prevent releases and observe national regulations on emissions.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceLiquid.Physical stateLiquid.FormLiquid.

ColorClear.Colorless.OdorMild. Soapy.Odor thresholdNot available.

pH 8 - 9
Vapor pressure 18 mm Hg
Vapor density Not established
Boiling point > 212 °F (> 100 °C)
Melting point/Freezing point Not available.

Specific gravity 1.04
Flash point None

Solubility (water)

Material name: LPS® T-91 MSDS AUSTRALIA

Water soluble

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 State and Federal Consumer Product Regulations

Evaporation rate 1 BuAc (Water = 1)

~5 cP **Viscosity** 70 - 90 % Percent volatile Partition coefficient < 0

(n-octanol/water)

10. STABILITY AND REACTIVITY

Chemical stability Material is stable under normal conditions.

Conditions to avoid Excessive heat. Materials to avoid None known.

Hazardous decomposition

products

Carbon oxides. Nitrogen oxides (NOx).

Hazardous polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Toxicological data

Components	Species	Test Results	
1-(3-Chloroallyl)-3,5,7-tria	za-1-azoniaadamantane chloride (CAS 40	30-31-3)	
Acute			
Dermal			
LD50	Rabbit	565 mg/kg	
Oral			
LD50	Rabbit	78.5 mg/kg	
	Rat	500 mg/kg	
Hexamethylenetetramine	(CAS 100-97-0)		
Acute			
Dermal			
LD50	Rat	> 2000 mg/kg	
Oral			
LD50	Mouse	1853 mg/kg	
	Rat	9200 mg/kg	

^{*} Estimates for product may be based on additional component data not shown.

Based on available data, the classification criteria are not met. **Acute toxicity**

Eye contact. Skin contact. Inhalation. Ingestion. Routes of exposure

Prolonged or repeated contact may cause drying, cracking, or irritation. **Chronic toxicity**

Based on available data, the classification criteria are not met. Sensitization Based on available data, the classification criteria are not met. Carcinogenicity

No data available to indicate product or any components present at greater than 0.1% are Mutagenicity

mutagenic or genotoxic.

Reproductivity Based on available data, the classification criteria are not met.

No epidemiological data is available for this product. **Epidemiology**

Local effects Irritating to eyes and skin. Irritating to respiratory system. Ingestion may cause gastrointestinal

irritation, nausea, vomiting and diarrhea.

Symptoms and target organs Irritating to eyes, respiratory system and skin. Defatting of the skin.

Further information This product has no known adverse effect on human health.

Material name: LPS® T-91 MSDS AUSTRALIA

652 Version #: 03 Revision date: 12-09-2013 Issue date: 02-04-2013

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Components		Species	Test Results
Alcohols, Ethoxylated (CA	S 68439-46-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	2.9 - 8.5 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	6 - 12 mg/l, 96 hours
Hexamethylenetetramine ((CAS 100-97-0)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	29868 - 43390 mg/l, 48 hours
Fish	LC50	Bleak (Alburnus alburnus)	> 10000 mg/l, 96 hours

^{*} Estimates for product may be based on additional component data not shown.

Ecotoxicity Not expected to be harmful to aquatic organisms.

Expected to biodegrade. Persistence and degradability

This product is miscible in water. Readily absorbed into soil. **Mobility**

Bioaccumulation None known.

Bioaccumulative potential

Octanol/water partition coefficient log Kow

LPS® T-91 < 0 1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane -0.1

chloride

Not classified as an environmental hazard. **Environmental effects**

Aquatic toxicity Not classified.

13. DISPOSAL CONSIDERATIONS

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international 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

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. 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.

Transport in bulk according to Annex II of MARPOL 73/78 and Not available.

the IBC Code

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.) No poison schedule

number allocated.

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)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes

Material name: LPS® T-91 MSDS AUSTRALIA Country(s) or regionInventory nameOn inventory (yes/no)*KoreaExisting Chemicals List (ECL)Yes

Philippine Inventory of Chemicals and Chemical Substances (PICCS)

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

Philippines

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

available.

 Issue date
 02-04-2013

 Revision date
 12-09-2013

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

Composition / Information on Ingredients: Disclosure Overrides

Physical & Chemical Properties: Multiple Properties Regulatory Information: Risk Phrases - Labeling

GHS: Classification

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Yes