

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material Name: SHUR/Mount, toluene-based mounting medium.
Catalogue Number: IA017.
Other Names: Toluene.
Recommended Use: Mounting medium used to mount specimens in laboratories.

Supplier Name: ProSciTech
Street Address: 1/11 Carlton Street, Kirwan, Qld. 4817 Australia
Telephone Number: (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)
Emergency Contact: (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)

SECTION 2 - HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION:

Hazardous according to criteria of Hazardous Substances Information System [HSIS Worksafe Australia].

HAZARDOUS AND/OR DANGEROUS NATURE:

HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

RISK PHRASES:

R11 Highly flammable.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R38 Irritating to skin.
R43 May cause sensitisation by skin contact.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50/53 Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.
R61 May cause harm to the unborn child.
R62 Possible risk of impaired fertility.
R63 Possible risk of harm to the unborn child.
R65 Harmful: May cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES:

S2 Keep out of reach of children.
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.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S46 If swallowed, seek medical advice immediately and show this container or label.
S53 Avoid exposure-obtain special instructions before use.
S60 This material and its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Refer to Section 15 for Poisons Schedule.

SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS

Pure Substance (Proportion 100%):

Chemical Identity: SHUR/Mount
Common Name(s): Toluene.
CAS Number): Mixture – see below.

Mixture Substance:

Ingredients	Cas Number(s)	Proportion (%)
Toluene	108-88-33	< 66
Acrylic Resin Solids	CASRNY2033	< 32
2-(2'-Hydroxy-5'-methylphenyl) benzotriazole	2440-22-4	< 1
Butyl benzyl phthalate	85-68-7	< 1
Gamma-methacryloxypropyl trimethoxysilane	2530-85-0	< 1
Mequinol [4-Methoxyphenol; Hydroquinone monomethyl ether]	150-76-5	< 1

SECTION 4 - FIRST AID MEASURES

Ingestion: Wash out mouth with water if conscious. Do NOT induce vomiting. Call a physician.

Inhalation: Remove to fresh air. Give oxygen or artificial respiration as needed. Seek medical treatment if discomfort persists.

Eye Contact: Flush eyes with water for at least 15 minutes. Seek medical attention if irritation occurs/persists.

Skin Contact: Wash with running water for at least 15 minutes. Seek medical attention if irritation occurs/persists.

First Aid Facilities: Eyebath/eyewash.

Medical Attention & Special Treatment:
Use of alcohol may increase narcotic effects and blood effects of toluene.

Additional Information:
Not available.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
Carbon dioxide, dry chemical powder, foam.

Hazards from Combustion Products:
Produces carbon monoxide, carbon dioxide in heated conditions.

Precautions for Fire Fighters:
Firefighters must wear self-contained breathing apparatus and fully protective equipment. Water may be ineffective in fighting fire, but should be used to cool fire-exposed containers.

Hazchem Code: 3WE

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedures:
Evacuate the area and turn off sources of ignition, if a large spill.

Containment & Clean up:
Wear self-contained breathing apparatus, rubber boots, and gloves. Turn off all sources of ignition. Absorb inert material and collect for disposal. Wash and ventilate spill site after pick up is complete.

SECTION 7 - HANDLING & STORAGE

Precautions for Safe Handling:
Avoid prolonged or frequent exposure. Wash thoroughly after handling.

Precautions for Safe Storage:
Store material in cool place. Keep storage container tightly closed.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: Toluene, Cas 108-88-3:
TWA 50ppm 191mg/m³
STEL 150ppm 547mg/m³

Mequinol, Cas 150-76-5:
TWA 5mg/m³

Cas 85-68-7, Cas 2530-85-0, Cas CASRNY2033, Cas 2440-22-4:
No exposure standard allocated.

Biological Limit Values: Not available.

Engineering Controls:
Local exhaust is recommended. Have an eyebath, safety shower and general washroom facilities close to the place of work.

Personal Protective Equipment:
If needed use an OSHA/MHSA approved respirator.
Wear protective impervious gloves, safety goggles and protective clothing – to prevent skin contact.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance: Water clear, viscous liquid.

Odour: Characteristic odour.

pH: Not available.

Vapour pressure (mm of Hg at °C):	22mm Hg at 20°C.
Vapour density:	(Air = 1) 3.2
Boiling point/range (°C):	110°C.
Freezing/melting point (°C):	Not available.
Solubility:	Not soluble in water at 25°C.
Specific gravity or density:	0.95
Flash Point:	< 2°C, closed cup.
Flammable (explosive) limits:	Lower limit: 1.3 Upper limit: 7.1
Ignition temperature:	Not available.
Additional Information:	
Percent Volatile by Volume:	<80
Evaporation Rate @1 ATM and 25oC (n-Butyl Acetate =1)	0.45

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Sources of ignition and incompatible materials.
Incompatible Materials:	Oxidizing agents.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.
Hazardous Reactions:	Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Exposure and Health Effects:

Irritant to upper respiratory tract, skin and eye. Produces narcotic effects by inhalation. Damage to liver, blood and kidneys. Effect on central nervous system (CNS).

Ingestion:

Can cause fatigue, weakness, confusion, euphoria, dizziness, headache, nausea and vomiting.

Inhalation:

Irritation of nose, and upper respiratory system, fatigue, weakness, confusion, euphoria, dizziness, headache, nausea and vomiting.

Eye Contact:

Irritation of eyes

Skin Contact:

Irritation of skin.

Human/Animal data: Not available.

Carcinogenic Category: Group 3: Not classifiable as to its carcinogenicity to humans.

Other Carcinogenic Information: Toluene and Butyl Benzyl Phthalate are both IARC Category 3, the other ingredients currently are not listed by the IARC.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:	Hazardous to the environment.
Persistence and degradability:	Not available.
Mobility:	Not available.
Additional Information:	Do not wash down drains into waterways, material may be hazardous to the environment.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods:

Burn in suitable equipped chemical incinerator. Must comply with federal, state and local regulations.

Special Precautions/Additional Informational:

Hazardous to environment – do not wash down drains or into waterways.

SECTION 14 - TRANSPORT INFORMATION

UN Number:	UN1294
UN Proper Shipping Name:	Toluene
Class and Subsidiary risk:	3
Packing Group:	II
Special Precautions for User:	Flammable liquid.

Hazchem Code: 3WE

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: S6

Toluene is a class S6 on the Poisons Schedule. There is not enough information to class the other ingredients.

SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: October 10

Comments:

List of Publications referenced when creating this MSDS;

- Hazardous Substances Information System Consolidated Lists: Safe Work Australia.
- APPROVED CRITERIA FOR CLASSIFYING HAZARDOUS SUBSTANCES [NOHSC:1008(2004)] 3rd Edition: National Occupational Health and Safety Commission.
- Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997).
- IATA Dangerous Goods Regulations.
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)].
- Australia Standard for the Uniform Scheduling of Drugs and Poisons [SUSPD] (Australian Government Department of Health and Ageing).

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the National code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this MSDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Material Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

... End of MSDS ...