

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material Name: Lowicryl HM20 monostep.
Catalogue Number: C445.
Other Names: Lowicryl HM20 Resin; Monomer E.
Recommended Use: Resin.

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.
 R36/37/38 Irritating to eyes, respiratory system and skin.
 R43 May cause sensitisation by skin contact.

Safety Phrases:
 S2 Keep out of reach of children.
 S9 Keep container in a well-ventilated place.
 S16 Keep away from sources of ignition - No smoking.
 S29 Do not empty into drains.
 S33 Take precautionary measures against static discharges.

Refer to Section 15 for Poisons Schedule.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Pure Substance (Proportion 100%):

Chemical Identity: Lowicryl HM20 monostep
Common Name(s): Monomer E, Lowicryl HM20 resin.
CAS Number: Mixture see below

Mixture Substance:

<i>Ingredients</i>	<i>Cas Number(s)</i>	<i>Proportion (%)</i>
Ethyl Methacrylate	97-63-2	80
n-Hexyl Methacrylate	142-09-6	20

SECTION 4 - FIRST AID MEASURES

Ingestion: Drink 1 or 2 glasses of water. Induce vomiting. Call physician. Seek medical treatment if discomfort persists.

Inhalation: Remove to fresh air. Give oxygen or artificial respiration, as needed.

Eye Contact: Flush eyes with water for at least 15 minutes.

Skin Contact: Wash affected area with plenty of soap and water.

First Aid Facilities: Eyebath/eyewash, Safety shower & general washroom facilities.

Medical Attention & Special Treatment:

Treat symptomatically.

Additional Information:

Not available.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Carbon dioxide, dry chemical powder, foam.

Hazards from Combustion Products:

Heat from fire may induce polymerization with rapid release of energy which may rupture containers explosively. Keep containers cool with water stream. Vapours are heavier than air and may travel to a source of ignition and flash back.

Precautions for Fire Fighters:

Fire fighters must wear self-contained breathing apparatus and fully protective equipment. Water may be ineffective, but should be used to cool fire-exposed containers.

Hazchem Code: 3WE

SECTION 6 - ACCIDENTAL RELEASE MEASURES
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Emergency Procedures:

Evacuate non-essential personnel.

Containment & Clean up:

Wear self-contained breathing apparatus, rubber boots and gloves. Evacuate area. Turn off all sources of ignition. Absorb spill with inert material. Collect for disposal. Wash and ventilate spill site after pickup is complete.

SECTION 7 - HANDLING & STORAGE

Precautions for Safe Handling:

Use only in a well ventilated area. Wear appropriate protective equipment while handling (refer to Section 8).

Precautions for Safe Storage:

Store in a dry cool area, away from incompatible materials. Make sure the product is earthed to avoid static electricity sparks. Store material at room temperature. Keep storage container tightly closed. Leave air space over liquid surface in all containers. It is advisable to use material within 6 months. Monitor for inhibitor level in bulk material periodically.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION
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National Exposure Standards: No exposure standard allocated.

Biological Limit Values: No biological limit allocated.

Engineering Controls:

Use mechanical ventilation.

Personal Protective Equipment:

Use a NIOSH approved respirator if necessary. Wear impervious protective gloves, safety goggles and protective clothing while handling.

The area should have a safety shower, eye bath and general wash room facilities readily available.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance: Clear, colourless liquid.

Odour: Sharp sweet odour.

pH: Not available.

Vapour pressure (mm of Hg at °C): 15mm Hg at 16°C.

Vapour density: Not available.

Boiling point/range (°C): 115-120°C.

Freezing/melting point (°C): Not available.

Solubility: Insoluble in water.

Specific gravity or density: 0.91

Flash Point: 18°C. Open Cup method.

Flammable (explosive) limits: Lower Limit: 0.9

Upper Limit: 3.9

Ignition temperature: Not available.

Additional Information: Not available.

SECTION 10 - STABILITY AND REACTIVITY
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Chemical stability: Stable under normal conditions of use.

Conditions to avoid: Heat, agitate, contamination, oxygen-free atmosphere and incompatible materials.

Incompatible Materials: Reducing and oxidizing agents.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

Hazardous Reactions: May occur.

SECTION 11 - TOXICOLOGICAL INFORMATION**Exposure and Health Effects:**

Irritation of eyes, skin and respiratory system, headache, nausea, drowsiness and unconsciousness.

Ingestion:

Affects unknown; may cause nausea.

Inhalation:

Effects respiratory system: headache, nausea, drowsiness and unconsciousness.

Eye Contact:

Direct liquid contact with eyes can cause severe irritation and possible corneal damage.

Skin Contact:

Prolonged skin contact with liquid can cause irritation and skin rash.

Human/Animal data: Not available.

Carcinogenic Category: Not classified as a Carcinogen by the IARC.

Other Carcinogenic Information: Not available.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Persistence and degradability: Not available.

Mobility: Not available.

Additional Information: Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS**Disposal Methods:**

Mix waste with a combustible carrier and burn in a suitably equipped chemical incinerator. Disposal must comply with Federal, State and local regulations.

Special Precautions/Additional Informational:

Not available.

SECTION 14 - TRANSPORT INFORMATION

UN Number: UN2277

UN Proper Shipping Name: Ethyl methacrylate, stabilized

Class and Subsidiary risk: 3

Packing Group: PG II

Special Precautions for User: Not available.

Hazchem Code: 3WE

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: None Allocated.

SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: March 11

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.

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