

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product name LP-270
Supplier Larisplast LTD
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance formal name: Methacrylic acid – acrylic ether copolymer
Substance chemical family: Polycarboxylate aqueous solution
INCI Designation: Carboxylic acid copolymer
CAS number: None

3. HAZARDS IDENTIFICATION

Human health hazards: No irritating to the skin and eye. This substance is believed to present very little hazard if swallowed.

Physical and chemical hazards: This substance is a weak acidic liquid.
Environmental hazards: Environmental effects from the substance have not investigated.

4. FIRST AID MEASURES

First Aid – Inhalation: No hazard in normal industrial use. If exposed to excessive levels of mist, remove to fresh air and get medical attention if cough or other symptoms develop.
First Aid – Skin: Wash thoroughly with soap and water. Get medical attention if irritation develops or persists.
First Aid – Eye: Immediately wash out with plenty of water affected eyes for at least 15 minutes with eyelids held open. Consult an eye specialist. Flush longer if there is any indication of residual chemical in the eye.
First Aid – Ingestion: No ingestion effect known. Treat symptomatically. See a physician.

5. **FIRE FIGHTING MEASURES**

Suitable extinguishing media:	In case of fire in the surrounding: all extinguisher agents allowed. (Water spray, dry extinguishing media, foam, carbon dioxide, and so on).
Specific hazards with regard to firefighting measures:	Evacuate area and fight fire from safe distance.

6. **ACCIDENTAL RELEASE MEASURES**

Evacuate unnecessary personnel. Collect leaking and spilled liquid in seal able containers as far as possible. Do not let this chemical enter the environment.

Personal precautions:	Pick up immediately as product renders floors slippery.
Environmental precautions:	Sources of ignition should be kept clear.
Methods for cleaning up:	Do not discharge product into natural waters without pre-treatment.

7. **HANDLING AND STORAGE**

Handling:	Wash thoroughly after handling. Avoid contact with eye, skin, and clothing. Do not reuse this container.
Storage:	Keep container closed when not in use. Protect from frost. Do not store in direct sunlight.

8. **EXPOSURE CONTROL / PERSONAL PROTECTION**

Engineering measures:	Facilities storing or utilizing this substance should be equipped with an eye wash facility and a safety shower. No special ventilation requirements in normal industrial use.
Control parameters:	No occupational exposure limits proposal established by regulations.
Personal Protective Equipment:	General safety and hygiene measures. The usual precautions for the handling of chemicals must be observed. Respiratory Protection: Not required. Eye Protection: Wear safety goggles. Hand, Skin and Body Protection: Wear PVC or other plastic material gloves (chemical resistant gloves), a chemical suit, rubber boot.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Viscous liquid	pH:	5±2.0
Appearance:	Clear yellow brownish liquid	Specific gravity:	1.095±0.05
Odor:	Mild characteristic odor	Boiling point °C:	100
Solubility in water:	Very good (at 20 °C)	Vapour pressure:	Not available
Freezing point:	< 0 °C	Vapour density:	Not available
Distribution coefficient:	Not available	Rate of vaporization:	Not available

10. STABILITY AND REACTIVITY

Oxidizability:	This substance is not oxidant	Flash point:	Not available
Auto ignition temperature:	Not available	Self-reactivity:	Stable
Upper and lower explosion limit:	Not available	Material to avoid:	Iron
Flammability:	This substance will burn in a fire	Stability& reactivity:	This substance may be caused to gel by sun light (UV)
Spontaneous combustibility:	Not applicable	Reactivity with water:	Not reactive

11. ECOLOGICAL INFORMATION

Elimination information:	Test method: OECED 302B/ISO 9888/EEC 88302 C
Method of analysis:	DOC (Reduction degree of elimination: >70%)
Evaluation:	easy to eliminate
Behavior and environmental fate:	Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

12. TOXICOLOGICAL INFORMATION

As for toxicological information of this substance, the data of analogy polymer (POWERFLOW-WD) is showing below as reference.

Corrosive and irritant properties

Eye irritant:	Non-irritating (Rabbit/0.1 ml, Not rinsed, 24-72 hr./PIS=0.00)
Skin irritant:	Non-irritating (Rabbit/0.5 ml, Patch test, 24-72 hr./PIS=0.00)
Acute toxicity:	Oral-rat LD50 greater than 2,000 mg/kg Dermal-rat LD50 greater than 2,000 mg/kg
Carcinogenic effects:	Not established on LARC, NTP, EU and OSHA.
Mutagenic effects:	The substance was negative in the Ames test.

13. DISPOSAL CONSIDERATIONS

Dissolve or mix this material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

14. TRANSPORT INFORMATION

Not classified as hazardous under transport regulations. Any transportation practice must be in compliance with laws and regulation in your country or region.

15. REGULATORY INFORMATION

EU STATUS:	Not listed on 67/548/EEC ANNEX I
EINECS	Copolymer Monomer A: Listed, Monomer B: Listed, Monomer C: Listed, Monomer D: Listed, Monomer E: Listed
AUSTRALIA STATUS	
AICS:	Not Listed

16. OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Larisplast LTD be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Larisplast LTD has been advised of the possibility of such damages.