

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME : Zenolite sheet

OTHER NAMES : Polymethyl methacrylate Sheet
Extruded General Purpose Acrylic Sheet
GP Acrylic Sheet
PMMA Sheet

COMPANY NAME : EGR

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SECTION 2 HAZARDS IDENTIFICATION

Not hazardous according to the criteria of Worksafe Australia

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Methyl methacrylate, ethyl acrylate.

SECTION 4 FIRST AID MEASURES

Swallowed:

Do not induce vomiting. Wash out mouth with water. Obtain medical attention if ill effects occur.

Eye:

Remove particles by irrigation with eye wash solution or clean water, holding the eyelids apart. Obtain medical attention.

Skin:

Wash skin with soap and water. Molten material can cause severe burns. DO NOT try to peel molten polymer from the skin, cool rapidly with water. Obtain medical attention.

Inhaled:

Remove patient from exposure. Obtain medical attention if ill effects occur.

ADVICE TO DOCTOR

Symptomatic treatment and supportive therapy as indicated.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media:

Water spray, foam, dry powder or carbon dioxide

Hazards from Combustion Products:

Combustible but not readily ignited.

Hazardous decomposition products: Methyl methacrylate and ethyl acrylate.

Special Fire Fighting Procedures:

A self contained breathing apparatus and full protective clothing should be worn in fire conditions.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Zenolite sheet is considered to be non-hazardous.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling

Handle sheet in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from the eyes, skin and clothing.

Caution!

Processing releases vapours or fumes which may cause eyes, skin and respiratory tract irritation. Molten material can cause thermal burns.

STORAGE

Keep sheets in a clean, cool, and dry area away from heat sources.
Natural ventilation is adequate.

Storage Temperature: Ambient.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

No exposure standards have been established for this material by Worksafe Australia.

Biological Limit Values

Not applicable.

Engineering Controls

Provide adequate ventilation, including local extraction, to ensure that the defined occupational exposure limit is not exceeded. In general, ventilation should be provided at fabricating work stations involving heating of the sheet.

Personal Protection

Respiratory Protection

NORMAL HANDLING: Provide adequate ventilation.

Eye

Safety glasses with side shields.

Skin Protection

NORMAL HANDLING: Gloves not normally required.

THERMAL PROCESSING: Wear thermal insulation gloves when handling hot sheet.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical Description / Properties

Appearance	:	Solid sheet
Boiling Point	:	Not Applicable
Melting Point	:	Not Applicable
Vapour Pressure	:	Not Applicable
Specific Gravity	:	1.19
Flash Point	:	390°C
Flammability Limits	:	Not Applicable
Solubility in Water	:	Practically Insoluble
Solubility in Organic Solvents	:	Attacked by chlorinated aliphatic hydrocarbons, aromatic hydrocarbons, ketones, alcohols, ether and esters.
Softening Point	:	97 - 120°C
Flash Point	:	390°C
Auto Ignition Temperature	:	465°
Decomposition Temperature	:	280°C

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability

Chemically stable.

Incompatible Materials

None known.

Hazardous Decomposition Products

Hazardous decomposition products: Methyl methacrylate and ethyl acrylate.

Hazardous Reactions

No hazardous reactions are known.

SECTION 11 TOXICOLOGICAL INFORMATION

HEALTH EFFECTS

Low toxicity under normal conditions of handling and use.

Inhalation

Unlikely to be hazardous by inhalation.

Skin Contact

Unlikely to cause skin irritation

Eye Contact

May cause irritation by mechanical abrasion.

Ingestion

Low oral toxicity

Long Term Exposure

This material has been in use for many years with no evidence of adverse effects.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity

Material predicted to have low ecological toxicity.

Persistence and Degradation

There is no evidence of this material degrading in soil or water.

Mobility

This material is predicted to have low mobility in soil and water.

Environmental Fate

Solid with low volatility, insoluble in water and therefore predicted to have low toxicity to soil and aquatic organisms.

Bioaccumulative Potential

This material has low potential for bioaccumulation.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Methods

Zenolite sheet is considered to be non-hazardous.
Clean scrap may be reprocessed.

Special Precautions for Landfill or Incineration

May be disposed of by landfill in accordance with local regulations.
Incineration may be used to recovery energy value.

Effects on Effluent Treatment

The material is essentially insoluble in water and can therefore be separated from aqueous medium by sedimentation and filtration processes at an effluent treatment plant.

SECTION 14 TRANSPORT INFORMATION

Not classified as dangerous for transport.

SECTION 15 REGULATORY INFORMATION

Not classified as dangerous for supply.

SECTION 16 OTHER INFORMATION

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