

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name ELVACITE® ACRYLIC RESIN - POLY(MMA/LMA) BASED

Product Description Polymer based on Methyl methacrylate and Lauryl methacrylate.

This data sheet covers the following grades: ELVACITE® 2552C

CAS No. 30795-64-3

Identified use(s) Manufacture of inks, paints and varnishes.

Uses advised against None known.

Manufacturer Mitsubishi Chemical America, Inc., Specialty Resins Division, 9675 Bayport Boulevard,

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Emergency Phone No. CHEMTREC 1-800-424-9300 (Within USA and Canada)

CHEMTREC 1-703-527-3887 (Outside USA and Canada)

2. HAZARDS IDENTIFICATION

Hazard classification Combustible dust

Label elements

Signal word Warning

Hazard statement(s) May form combustible dust concentrations in air.

Other hazards Combustible but not readily ignited. Low toxicity under normal conditions of handling and

use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical identity of the substance Poly(Methyl methacrylate/Lauryl methacrylate)

CAS No. 30795-64-3

4. FIRST AID MEASURES

Description of first aid measures

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Skin Contact IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical

attention. Molten material can cause severe burns. Do NOT try to peel molten polymer from

the skin. Cool rapidly with water.

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Ingestion IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Obtain medical attention if ill

effects occur.

Most important symptoms and effects, both acute and delayed

Not applicable.

Indication of any immediate medical attention and special treatment needed

None necessary.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Unsuitable Extinguishing Media

Special hazards arising from the substance

or mixture

Special protective equipment and precautions for fire fighters

Water spray, foam, dry powder or CO₂.

Do not use water jet.

Combustible but not readily ignited. May form combustible dust concentrations in air. Combustion or thermal decomposition will evolve toxic, irritant and flammable vapors. By analogy with similar materials, the product may decompose if heated to temperatures above

392°F (200°C).

A self contained breathing apparatus and suitable protective clothing should be worn in fire

conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment

and emergency procedures Environmental precautions

Methods and materials for containment and

cleaning up Other advice

cleaning up

Avoid release to the environment.

Caution - spillages may be slippery.

Sweep up and shovel into waste drums or plastic bags. Wash the spillage area with water.

See Section: 8, 13

7. HANDLING AND STORAGE

HANDLING Product as supplied: Avoid contact with eyes. Avoid prolonged skin contact. Unlikely to

represent a dust hazard under normal handling conditions.

Process Hazards

The product may be suitable for a wide range of industrial applications and therefore it is impossible to make detailed recommendations regarding all process hazards. The following constitutes general advice: Extra care should be taken to prevent burns from contact with

hot material.

Thermal processing requires adequate ventilation to remove any monomer decomposition products, and use of inert atmosphere may be required in some processes to safely

decompose the resin when it is used as a binder.

Any thermal processing must consider the time-temperature decomposition of the resin. All polymers degrade to some extent at their processing temperature, an effect which increases with increasing temperature. It is therefore impossible to be precise about which substances may be evolved. However, it is only the minor components which vary substantially. The major components are given in Section 10.

If the product is to be used in applications for which the hazards are not fully understood it is

recommended to consult the supplier before use.

STORAGE Acrylic polymers are supplied in either bags or bulk containers. Keep containers in a clean,

cool and dry area away from heat sources. Natural ventilation is adequate.

Storage temperature (°C): Ambient. Incompatible materials: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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Substance	CAS No.	OSHA PEL	ACGIH	ACGIH	Company Std.	Company
		TWA	TWA	STEL	TWA	Std.
						STEL
Particulates (Total dust)		15 mg/m³	10 mg/m³			
(Respirable dust)		5 mg/m³	3 mg/m³			
The following values apply to substances						
which may be evolved during thermal						
processing.						
Methyl methacrylate	80-62-6	100 ppm	50 ppm	100 ppm	50 ppm	100 ppm
		410 mg/m ³	(205 mg/m ³)	(410 mg/m³)		
				(SEN;A4)		

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Appropriate engineering controls

Do not eat, drink or smoke at the workplace. Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded. Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required. The following information is given as general guidance.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection



Wear eye/face protection. Safety spectacles/goggles/full face shield.

Skin protection



Wear suitable gloves.

Suitable materials: Butyl; EN 374.

Suitability of gloves should be confirmed with glove manufacturer. Change gloves, if contamination occurs or duration of activity exceeds breakthrough time. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Respiratory protection



A suitable dust mask or dust respirator with filter type P3 or FFP3 (EN143 or EN149) may be appropriate. In the unlikely event of formation of particularly high levels of dust a self contained breathing apparatus may be appropriate.

Thermal hazards

Wear thermal insulating gloves when handling hot masses.

Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. A suitable mask with filter type A (EN141 or EN405) may be appropriate. In the unlikely event of formation of particularly high levels of vapor a self contained breathing apparatus may be appropriate.

PHYSICAL AND CHEMICAL PROPERTIES

Form Beads.
Color White.

Odor Typically methacrylate.

Boiling Point (°C) Not applicable.

Flammable Limits Not applicable.

Flack Point (°C)

Flash Point (°C) Not applicable.
pH (Value) Not available.
Solubility (Water) Negligible.
Solubility (Other) Not available.
Partition Coefficient (n-Octanol/water) Not applicable.
Vapor pressure (Pascal) Not applicable.

Specific Gravity

Vapor Density (Air=1)

Explosive Properties

Oxidizing properties

Relative Evaporation Rate (Ether = 1)

Not applicable.

Not applicable.

Not applicable.

Not applicable.

10. STABILITY AND REACTIVITY

Reactivity Non-reactive material.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None known.

Conditions to avoid Avoid dust generation. Keep away from heat.

Incompatible materials None known

Hazardous decomposition product(s) Methyl methacrylate, Lauryl methacrylate, Carbon dioxide, Carbon monoxide.

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TOXICOLOGICAL INFORMATION

Acute toxicity

Ingestion Based upon the available data, the classification criteria are not met.

Low oral toxicity.

Inhalation Based upon the available data, the classification criteria are not met.

> High concentrations of dust may be irritant to the respiratory tract. High concentrations of vapor from hot operations may be harmful, cause irritation of the respiratory tract and slight

narcotic effects.

Skin corrosion/irritation Based upon the available data, the classification criteria are not met. Serious eye damage/irritation

Based upon the available data, the classification criteria are not met.

Dust may cause irritation.

Skin sensitization data It is not a skin sensitizer. (By analogy with similar materials)

> Contains: (Methyl methacrylate). During normal handling this will not constitute a hazard. If the polymer matrix is destroyed e.g. when the product is dissolved in organic solvent, chemical residues will be released from the polymer matrix. Under these conditions, they

may produce an allergic reaction in persons already sensitised.

Based upon the available data, the classification criteria are not met. Aspiration hazard

STOT - single exposure Based upon the available data, the classification criteria are not met. STOT - repeated exposure Based upon the available data, the classification criteria are not met.

Germ cell mutagenicity Based upon the available data, the classification criteria are not met. Reproductive toxicity Based upon the available data, the classification criteria are not met. Carcinogenicity Based upon the available data, the classification criteria are not met.

ECOLOGICAL INFORMATION

Ecotoxicity The product is predicted to have low toxicity to aquatic organisms.

Persistence and degradability The product is non-biodegradable in soil. There is no evidence of degradation in soil and

water.

Bioaccumulative potential The product has low potential for bioaccumulation. Mobility in soil The product is predicted to have low mobility in soil.

Other adverse effects None known.

DISPOSAL CONSIDERATIONS

The waste is considered to be non hazardous. Clean scrap may be reprocessed. Certain packages are returnable. Please consult your local office for further details. Ensure that all packaging is disposed of safely.

Disposal methods May be disposed of by landfill in accordance with local regulations. Incineration may be used

to recover energy value.

TRANSPORT INFORMATION

DOT (DEPARTMENT OF Not Classified as Dangerous for Transport.

TRANSPORTATION)

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UN No. Not applicable. Proper Shipping Name Not applicable. Class Not applicable. Packing group Not applicable. Environmental hazards Not applicable. Not applicable. Special precautions for user

Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC Code

Not applicable.

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15. REGULATORY INFORMATION

US Federal Regulations

TSCA Inventory Status: All chemicals in this product comply with TSCA rules and regulations including TSCA Section 5 (Inventory Rules). Inventory Status: Active

SARA 302 - Extremely Hazardous

None

Substances

SARA 313 - Toxic Chemicals None

US State Regulations

California SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS

OR OTHER REPRODUCTIVE HARM None known.

SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER None

known.

16. OTHER INFORMATION

LEGEND

Note: Not all of the following are necessarily contained in this Safety Data Sheet:

LTEL: Long Term Exposure Limit STEL: Short Term Exposure Limit TWA: Time Weighted Average PEL: Permissible Exposure Levels

OSHA: Occupational Safety and Health Administration SARA: Superfund Amendments and Reauthorisation Act WHMIS: Worker Hazardous Materials Information System

A4: Not Classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of the lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories.

R: Respirable particulate matter

MEDICAL USE: CAUTION: DO NOT USE IN MEDICAL APPLICATIONS INVOLVING IMPLANTATION IN THE HUMAN BODY.

Mitsubishi Chemical America Inc. has performed no clinical testing on the use of this product in any medical application. Mitsubishi Chemical America Inc. has no data to support the use of this product in any medical application. This product was not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. Mitsubishi Chemical America Inc. has neither sought, nor received, approval from any regulatory agency for the use of this product in implantation in the human body or in contact with internal body fluids or tissues.

It is the responsibility of the end-product manufacturer to identify all market and use-specific regulations and to ensure compliance with these regulations.

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