

# SAFETY DATA SHEET

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

Product Name	ACRYLIC RESIN FOR USE IN HIGH SOLIDS COMPOSITIONS
Product Description	A terpolymer based on n-butyl methacrylate and methyl methacrylate. The identity of one of the polymer components has been withheld. This data sheet covers the following grades: ELVACITE® 2927
Identified use(s)	Manufacture of inks, paints and varnishes.
Uses advised against	Not intended for thermal processing.
Manufacturer	MITSUBISHI CHEMICAL AMERICA, INC., Specialty Resins Division, 9675 Bayport Boulevard, Pasadena, TX 77507, USA Phone: +1-713-758-8100 MCA-SPR.sdsinfo@m-chem.com
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	Low toxicity under normal conditions of handling and use.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical identity of the substance	A terpolymer based on n-butyl methacrylate and methyl methacrylate.
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## 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.
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	Water spray, foam, dry powder or CO <sub>2</sub> .
Unsuitable Extinguishing Media	Do not use water jet.

Special hazards arising from the substance or mixture

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).

Special protective equipment and precautions for fire fighters

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

Caution - spillages may be slippery.

Environmental precautions

Avoid release to the environment.

Methods and materials for containment and cleaning up

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

Other advice

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. 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

Substance	CAS No.	OSHA PEL TWA	ACGIH TWA	ACGIH STEL	Company Std. TWA	Company Std. STEL
Particulates (Total dust) (Respirable dust)		15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> 3 mg/m <sup>3</sup>			

Appropriate engineering controls

Do not eat, drink or smoke at the work place. 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



Not normally required.

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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Beads.
Color	White.
Odor	Typically methacrylate.
pH (Value)	Not available.
Boiling Point (°C)	Not applicable.
Flash Point (°C)	300
Relative Evaporation Rate (Ether = 1)	Not applicable.
Flammable Limits	Not applicable.
Vapor pressure (Pascal)	Not applicable.
Vapor Density (Air=1)	Not applicable.
Specific Gravity	1.18
Solubility (Water)	Negligible.
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not applicable.
Viscosity (mPa. s)	Not available.
Explosive Properties	Not applicable.
Oxidizing properties	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	Keep away from heat. Avoid dust generation.
Incompatible materials	None known.
Hazardous decomposition product(s)	Methyl methacrylate, n-Butyl methacrylate, Methacrylic acid, Sulfur oxides and possibly Hydrogen sulphide, Carbon dioxide, Carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Ingestion	Low oral toxicity.
Inhalation	Unlikely to be hazardous by inhalation.
Skin corrosion/irritation	Unlikely to cause skin irritation.
Serious eye damage/irritation	Dust may cause irritation.
Skin sensitization data	It is not a skin sensitizer. (By analogy with similar materials) Contains: (Methyl methacrylate, n-Butyl 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.
Chronic exposure	This type of material has been in use for many years with no evidence of adverse effects.

## 12. 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.

## 13. 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.
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## 14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)	Not Classified as Dangerous for Transport.
UN No.	Not applicable.
Proper Shipping Name	Not applicable.
Class	Not applicable.
Packing group	Not applicable.
Environmental hazards	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

## 15. REGULATORY INFORMATION

### US Federal Regulations

SARA 302 - Extremely Hazardous Substances	None
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.
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## 16. OTHER INFORMATION

### Inventory Status

European Union	All chemicals in this product comply with REACH regulations. If importing material to the EU, please contact your supplier to ensure all registered substance volumes are supported.
United States (TSCA)	Polymer exempt
Canada (DSL/NDSL)	Not listed in DSL/NDSL
Japan (ENCS)	Not listed in ENCS
Philippines (PICCS)	Not listed in PICCS
Australia (AICS)	Not listed in AICS
South Korea (KECI)	Not listed in KECI
China (IECSC)	Not listed in IECSC
Taiwan (TCSI)	Not listed in TCSI
New Zealand (NZIoC)	All components listed or exempt.

Compliance with other Regulatory Chemical Inventories cannot be assumed, please contact supplier for further 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., Specialty Resins Division has performed no clinical testing on the use of this product in any medical application. MITSUBISHI CHEMICAL AMERICA, INC., Specialty Resins Division 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., Specialty Resins Division 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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