

SAFETY DATA SHEET

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

Product Name ELVACITE® 4349

Product Description Polymer based on Methyl methacrylate and Butyl acrylate.

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,

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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 Low toxicity under normal conditions of handling and use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical identity of the substance Polymer based on Methyl methacrylate and Butyl acrylate.

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.

or mixture

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water spray, foam, dry powder or CO₂.

Unsuitable Extinguishing Media Do not use water jet.

Special hazards arising from the substance 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

Environmental precautions

Methods and materials for containment and

cleaning up

Other advice

Caution - spillages may be slippery.

Avoid release to the environment.

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. 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)		15 mg/m³	Not			
(Respirable dust)		5 mg/m³	established			

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 Transparent / White.
Odor Typically methacrylate.

Not available. pH (Value) Boiling Point (°C) Not applicable. Flash Point (°C) Not available. Relative Evaporation Rate (Ether = 1) Not applicable. Flammable Limits Not applicable. Not applicable. Vapor pressure (Pascal) Vapor Density (Air=1) Not applicable. Specific Gravity 1 - 1.2 Solubility (Water) Negligible. Solubility (Other) Not available.

Partition Coefficient (n-Octanol/water)

Viscosity (mPa. s)

Explosive Properties

Oxidizing properties

Not available.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

10. STABILITY AND REACTIVITY

Reactivity None known.

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, n-Butyl acrylate, 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.

Contains: (Methyl methacrylate, n-Butyl acrylate). 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.

Other adverse effects None known.

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.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF Not Classified as Dangerous for Transport.

TRANSPORTATION)

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 Not applicable.

MARPOL 73/78 and the IBC Code

15. REGULATORY INFORMATION

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

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)

All chemicals in this product comply with TSCA rules and regulations including TSCA

Section 5 (Inventory Rules).

Canada (DSL/NDSL)

Japan (ENCS)

Philippines (PICCS)

Australia (AICS)

South Korea (KECI)

China (IECSC)

Taiwan (TCSI)

Listed in DSL

Listed in ENCS

Not listed in PICCS

Not listed in KECI

Listed in IECSC

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

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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