

SAFFTY DATA SHFFT

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

Product Name ELVACITE® 4115

Product Description Polymer based on iso-Butyl methacrylate and Diethylaminoethyl methacrylate.

Identified use(s)

Manufacture of inks, paints and varnishes.

Manufacture of composites.

Uses advised against Not intended for thermal processing.

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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.

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical identity of the substance Polymer based on iso-Butyl methacrylate and Diethylaminoethyl methacrylate.

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 CO₂.

Unsuitable Extinguishing Media Do not use water jet.

Special hazards arising from the substance C

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. May decompose if heated above 536°F (280°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 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

Caution - spillages may be slippery.

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/m³ 5 mg/m³	10 mg/m³ 3 mg/m³			SILL

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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Beads.
Color White

Odor Typically methacrylate.

pH (Value)

Boiling Point (°C)

Not available.

Not applicable.

Flash Point (°C) 300

Relative Evaporation Rate (Ether = 1)

Flammable Limits

Vapor pressure (Pascal)

Vapor Density (Air=1)

Specific Gravity

Not applicable.

Not applicable.

Not applicable.

Solubility (Water)

Solubility (Other)

Partition Coefficient (n-Octanol/water)

Viscosity (mPa. s)

Explosive Properties

Oxidizing properties

Negligible

Not available.

Not applicable.

Not applicable.

Not applicable.

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) iso-Butyl methacrylate, Diethylaminoethyl methacrylate, Dodecyl mercaptan, 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: (iso-Butyl methacrylate, Diethylaminoethyl methacrylate, Dodecyl mercaptan). 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.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF Not Classified as Dangerous for Transport.

TRANSPORTATION)

UN No.

Proper Shipping Name

Class

Not applicable.

Packing group

Environmental hazards

Special precautions for user

Transport in bulk according to Annex II of

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

MARPOL 73/78 and the IBC Code

15. REGULATORY INFORMATION

US Federal Regulations

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

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16. OTHER INFORMATION

The following sections contain revisions or new

statements:

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

Listed in AICS

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

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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