

SAFETY DATA SHEET

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

Product Name	ELVACITE® 2042A
Product Description	Polymer based on Ethyl methacrylate.
CAS No.	9003-42-3
Identified use(s)	Manufacture of inks, paints and varnishes.
Uses advised against	None known.
Manufacturer	DIANAL AMERICA, INC., 9675 Bayport Boulevard, Pasadena, TX 77507, USA Phone: +1-713-758-8100 sdsinfo@dianal.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	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(Ethyl methacrylate)
CAS No.	9003-42-3

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	Water spray, foam, dry powder or CO ₂ .
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. By analogy with similar materials, the product may decompose if heated to temperatures above 392°F (200°C). Combustion or thermal decomposition will evolve toxic, irritant and flammable vapors.
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. 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

Substance	CAS No.	OSHA PEL TWA	ACGIH TWA	ACGIH STEL	Company Std. TWA	Company Std. STEL
Particulates (Total dust) (Respirable dust)		15 mg/m ³ 5 mg/m ³	Not established			
The following values apply to substances which may be evolved during thermal processing.						
Ethyl methacrylate	97-63-2	Not established	Not established	Not established	50 ppm	100 ppm

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



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.

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 may be appropriate. In the unlikely event of formation of particularly high levels of vapor 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	Avoid dust generation. Keep away from heat.
Incompatible materials	None known.
Hazardous decomposition product(s)	Ethyl methacrylate, Carbon dioxide, Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Ingestion
Inhalation

Low oral toxicity.

Unlikely to be hazardous by inhalation. High concentrations of vapor from hot operations may be harmful, cause irritation of the respiratory tract and slight narcotic effects.

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: (Ethyl 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.
------------------	--

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	Not applicable.
SARA 313 - Toxic Chemicals	Not applicable.
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

The following sections contain revisions or new statements: 1

Date of preparation: 24 -September- 2019

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/NDL)	Listed in DSL
Japan (ENCS)	Listed in ENCS
Philippines (PICCS)	Listed in PICCS
Australia (AICS)	Listed in AICS
South Korea (KECI)	Listed in KECI
China (IECSC)	Listed in IECSC
Taiwan (TCSI)	Listed in TCSI
New Zealand (NZIoC)	Listed in NZIoC

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.

Dianal America, Inc. has performed no clinical testing on the use of this product in any medical application. Dianal 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. Dianal 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.

Subject to the exclusions and limitations set out below the Information contained in this publication or as otherwise supplied to the User is believed to be accurate and has been given in good faith. It is for the User to use the Information contained in this publication or as otherwise supplied to the User with care and satisfy itself of the suitability of the product for their intended use and the applicability of the advice given. Except to the extent that exclusion is prevented by applicable law Dianal America, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded and accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.