

## SAFETY DATA SHEET

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

Product Name ELVACITE® 4026

Product Description Polymer based on Methyl methacrylate and Tripropylene glycol diacrylate.  
Identified use(s) Manufacture of inks, paints and varnishes.  
Uses advised against None known.

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Emergency Phone No. 1-800-424-9300 (Transport Emergency)  
1-877-886-2143 (Medical Emergency)

### 2. HAZARDS IDENTIFICATION

Hazard classification Combustible dust  
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 Tripropylene glycol diacrylate.

Substance identity	%W/W	CAS No.
Methyl methacrylate	<5%	80-62-6

### 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<sub>2</sub>.

Unsuitable Extinguishing Media Do not use water jet.

Special hazards arising from the substance or mixture Combustible but not readily ignited. 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

Caution - spillages may be slippery.

Methods and materials for containment and cleaning up

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

## 7. HANDLING AND STORAGE

HANDLING

Product as supplied: Avoid contact with eyes. Avoid prolonged skin contact. May form explosible dust clouds in air.

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 <sup>3</sup> 5 mg/m <sup>3</sup>	Not established.			
The following values apply to substances which may be evolved during thermal processing.						
Methyl methacrylate	80-62-6	100 ppm 410 mg/m <sup>3</sup>	50 ppm (205 mg/m <sup>3</sup> )	100 ppm (410 mg/m <sup>3</sup> ) (SEN;A4)	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 P 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.
Flash Point (°C)	300
Flammable Limits	Not applicable.
Vapour pressure (Pascal)	Not applicable.
Vapor Density (Air=1)	Not applicable.
Specific Gravity	1.18
Solubility (Water)	Negligible.
Solubility (Other)	Most organic solvents.
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.
Hazardous Reactions	None known.
Conditions to avoid	Avoid dust generation.
Materials to avoid	None known.
Hazardous decomposition product(s)	Methyl methacrylate, Tripropylene glycol diacrylate, Carbon dioxide, Carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Ingestion	Low oral toxicity.
Inhalation	Unlikely to be hazardous by inhalation. High concentrations of dust may be irritant to the upper respiratory tract. High concentrations of vapour from hot operations may be harmful, cause irritation of the respiratory tract and slight narcotic effects.
Skin Contact	Unlikely to cause skin irritation. Contains greater than 0.1% residual (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.
Eye Contact	Dust may cause irritation.
Repeated exposure toxicity	
Chronic exposure	This type of material has been in use for many years with no evidence of adverse effects.

CHEMICALS	IARC	NTP	OSHA	ACGIH
None				

## 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	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

SARA 302 - Extremely Hazardous Substances	None
SARA 313 - Toxic Chemicals	Methyl methacrylate
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.
Canadian Regulations WHMIS Classification	Not classified.

## 16. OTHER INFORMATION

The following sections contain revisions or new statements:	7, 8, 9, 11, 15, 16
Date of preparation:	8 -December- 2015

### Inventory Status

European Union	To the best of our knowledge all chemicals in this product comply with REACH regulations.
United States (TSCA)	TSCA Inventory Status : All chemicals in this product comply with TSCA rules and regulations including TSCA Section 5 (Inventory Rules).
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)	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

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

Lucite International Inc. has performed no clinical testing on the use of this product in any medical application. Lucite International 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. Lucite International 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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