



# Material Safety Data Sheet

RLJ284

revised 07-NOV-2002

## "ELVACITE" 4018 ACRYLIC RESIN

### # CHEMICAL PRODUCT/COMPANY IDENTIFICATION

"ELVACITE" IS A REGISTERED TRADEMARK OF LUCITE INTERNATIONAL INC.

#### Material Identification

MSDS Number : RLJ284  
 CAS Number : 25608-33-7  
 CAS Name : POLY(METHYL METHACRYLATE/n-BUTYL METHACRYLATE).  
 Product Use : EXPERIMENTAL.

#### Company Identification

#### MANUFACTURER/DISTRIBUTOR

Lucite International, Inc.  
 7275 Goodlett Farms Parkway  
 Cordova, TN 38018

#### PHONE NUMBERS

Product Information : 1-800-4-LUCITE ext. 2018  
 Transportation Emergency : 1-800-424-9300  
 Medical Emergency : 1-877-886-2143

### COMPOSITION/INFORMATION ON INGREDIENTS

Material	CAS Number
POLY(METHYL METHACRYLATE/n-BUTYL METHACRYLATE)	25608-33-7

This material is not intended for applications involving elevated temperatures. However, if it is required to be used for processing at elevated temperatures, please contact the supplier for relevant Safety, Health and Environmental information.

### HAZARDS IDENTIFICATION

\*\*\*\*\*EMERGENCY OVERVIEW\*\*\*\*\*  
 \* Solid granules. May evolve irritating fumes on processing \*  
 \* or overheating. \*  
 \*\*\*\*\*  
 Potential Health Effects:

EYE: Dust may cause irritation.

SKIN: Unlikely to cause skin irritation.

INGESTION: Low oral toxicity.

INHALATION: Unlikely to be hazardous but dust or vapors may cause irritation.

CHRONIC (CANCER) INFORMATION: No evidence of adverse effects but adverse effects unlikely.

TERATOLOGY (BIRTH DEFECT) INFORMATION: No information but adverse effects unlikely.

REPRODUCTIVE INFORMATION: No information but adverse effects unlikely.

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### **FIRST AID MEASURES**

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Inhalation: Remove patient from exposure. Obtain medical attention if ill effects occur.

Skin Contact: Wash skin with soap and water

Eye Contact: Remove particles by irrigating with eye wash solution or clean water, holding the eyelids apart. Obtain medical attention.

Ingestion: Do not induce vomiting. Wash out mouth with water. Obtain medical attention if ill effects occur.

Further Medical Treatment: Symptomatic treatment and supportive therapy as indicated.

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### **FIRE FIGHTING MEASURES**

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Flammable Properties

Flash Point : NE

Combustible but not readily ignited. May form explosible dust clouds in air. May decompose if heated above 200 Deg C. Combustion or thermal decomposition will evolve toxic, irritant and flammable vapors.

Incompatible materials: None known.

Extinguishing Media: water spray, foam, dry powder or CO2.

Fire Fighting Protective Equipment : A self-contained breathing apparatus and full protective clothing should be worn in fire conditions.

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### **ACCIDENTAL RELEASE MEASURES**

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Caution - spillages may be slippery. Sweep up and shovel into waste drums or plastic bags. Wash the spillage area with water.

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### **HANDLING AND STORAGE**

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**STORAGE**

"ELVACITE" acrylic polymers are supplied in either drums or other specialty packaging. Keep containers in a clean, cool and dry area away from heat sources. Natural ventilation is adequate.

Storage Temperature : ambient.

Avoid contact with eyes. Avoid prolonged skin contact. Avoid inhalation of high concentrations of dusts.

**HANDLING**

## Process Hazards

Care should be taken to prevent burns from contact with hot material. All polymers degrade to some extent if over heated, 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 the "STABILITY AND REACTIVITY" section.

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**EXPOSURE CONTROLS/PERSONAL PROTECTION**

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Normal handling: the use of eye protection is recommended. An approved dust mask should be worn if exposure to high levels of dust are likely.

## Exposure Guidelines

## Exposure Limits

"ELVACITE" 4018 Acrylic Resin

PEL(OSHA) : Particulates (Not Otherwise Classified) 15 mg/m<sup>3</sup>, 8 Hr. TWA,  
total dust 5 mg/m<sup>3</sup>, 8 Hr. TWA, respirable dust

TLV ACGIH): None Established

## Other Applicable Exposure Limits

## METHYL METHACRYLATE

PEL (OSHA): 100 ppm, 410 mg/m<sup>3</sup>, 8 Hr. TWA

TLV (ACGIH): 100 ppm, 410 mg/m<sup>3</sup>, 8 Hr. TWA

LUCITE recommended: 50 ppm, 205 mg/m<sup>3</sup>, 8 Hr. TWA, 100 ppm, 410 mg/m<sup>3</sup> STEL

## N-BUTYL METHACRYLATE

PEL (OSHA) : None Established

TLV (ACGIH) : None Established

LUCITE recommended: 50 ppm, 8 Hr. TWA

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**PHYSICAL AND CHEMICAL PROPERTIES**

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## Physical Data

% Volatiles	: <1%
Solubility in Water	: Negligible
Odor	: typical "methacrylate"
Form	: Beads
Specific Gravity	: NE

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**STABILITY AND REACTIVITY**

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Hazardous Decomposition Product(s) : Methyl methacrylate; n-butyl methacrylate.

Hazardous Reactions : None known.  
Polymerization : Will not polymerize.

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**TOXICOLOGICAL INFORMATION**

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

Skin Contact: Unlikely to cause skin irritation.

Eye Contact: Dust may cause irritation.

Ingestion: Low oral toxicity.

Long Term Exposure : This type material has been in use for many years with no evidence of adverse effects.

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**ECOLOGICAL INFORMATION**

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Environmental Fate and Distribution: "ELVACITE" Acrylic Resins are high tonnage materials produced in partially contained systems. Solids with low volatility. The product is essentially insoluble in water. The product has low potential for bioaccumulation. The product is predicted to have low mobility in soil.

Persistence and Degradation: The product is non-biodegradable in soil. There is no evidence of degradation in soil and water.

Toxicity: The product is predicted to have low toxicity to aquatic organisms.

Effect on Effluent Treatment: The product is anticipated to be poorly removed in biological treatment processes.

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**DISPOSAL CONSIDERATIONS**

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"ELVACITE" waste is considered to be non-hazardous. Clean scrap may be reprocessed. Incineration may be used to recover energy value. May be disposed of by landfill in accordance with local regulations. Certain packages are returnable. Please consult your local office for further details.

Ensure that all packaging is disposed of safely.

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**TRANSPORTATION INFORMATION**

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Shipping Information

DOT: Not regulated.

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**REGULATORY INFORMATION**

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Not classified as hazardous to users or for transport.

U.S. Federal Regulations

TSCA Inventory Status : Reported/Included.

**SECTION 313 SUPPLIER NOTIFICATION**

This product contains no known toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Canadian Regulations:

DSL regulatory status : Included.

European Regulations:

EINECS: Polymer, monomers included, 201-297-1 (methyl methacrylate);  
202-615-1 (n-butyl methacrylate).

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**OTHER INFORMATION**

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Additional Information

NA = Not Applicable

NE = Not Established

# = Indicates updated section

**STATE RIGHT-TO-KNOW LAWS**

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this Material Safety Data Sheet contain no such substances except for those specifically listed below:

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.01% FOR SPECIAL HAZARDOUS SUBSTANCES): None known.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: None known.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: None known.

SUBSTANCES ON THE NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.1% FOR SUBSTANCES IDENTIFIED AS CARCINOGENS, MUTAGENS OR TERATOGENS): None known.

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

**Lucite International has not performed clinical testing on the suitability of acrylic products in any medical application and is not aware of any data relating to the compatibility of Lucite International' products, or devices**

manufactured from them, for such applications. Lucite International' products are not designed or manufactured for use in implantation in the human body or for prolonged contact with internal body fluids or tissues. LUCITE has neither sought, nor received, approval from the FDA or any other agency for the use of these acrylic materials in implantation in the human body or for prolonged contact with internal body fluids or tissues.

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The information herein is given in good faith but no warranty, expressed or implied, is made. Lucite International assumes no responsibility for personal injury or property damage that may arise from use of this material. Vendees or users assume all risks associated with the use of this material. Responsibility for MSDS :

**Responsibility for MSDS :**

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