



Acrylics

Material Safety Data Sheet

MSDS1119

revised 11-JAN-1997

"ELVACITE" 2923 ACRYLIC RESIN

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

"ELVACITE" IS A REGISTERED TRADEMARK OF ICI ACRYLICS INC.

Material Identification

MSDS Number : 1119
CAS Number : 41686-44-6
CAS Name : POLY(METHYL METHACRYLATE/n-BUTYL METHACRYLATE/
ETHYL ACRYLATE/STYRENE/METHACRYLIC ACID)
Product Use : ELECTRONICS

Company Identification

MANUFACTURER/DISTRIBUTOR

ICI Acrylics
3411 Silverside Road - McKean 2nd
Wilmington, DE 19850-5391

PHONE NUMBERS

Product Information : 1-302-887-5853
Transportation Emergency : 1-800-424-9300
Medical Emergency : 1-800-228-5635 ext. 181

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number
POLY(METHYL METHACRYLATE/n-BUTYLMETHACRYLATE ETHYL ACRYLATE/STYRENE/METHACRYLIC ACID)	41686-44-6

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: Potential decomposition products, ethyl acrylate and styrene are suspect carcinogens

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

REPRODUCTIVE INFORMATION: No information but adverse effects unlikely.

FIRST AID MEASURES

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.

FIRE FIGHTING MEASURES

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.

ACCIDENTAL RELEASE MEASURES

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

HANDLING AND STORAGE

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.

EXPOSURE CONTROLS/PERSONAL PROTECTION

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" 2923 Acrylic Resin
PEL (OSHA) : Particulates (Not Otherwise Classified) 15 mg/m3,
8 Hr. TWA, total dust 5 mg/m3, 8 Hr. TWA, respirable dust
TLV ACGIH : None Established

Other Applicable Exposure Limits

METHYL METHACRYLATE

PEL (OSHA) : 100 ppm, 410 mg/m3, 8 Hr. TWA
TLV (ACGIH) : 100 ppm, 410 mg/m3, 8 Hr. TWA
ICI recommended : 50 ppm, 205 mg/m3, 8 Hr. TWA, 100 ppm, 410 mg/m3,
15 min. STEL

STYRENE

PEL (OSHA): 100 ppm, 8 Hr. TWA 200 ppm, Ceiling 600 ppm - 5 Min. Max.
TLV (ACGIH): 50 ppm, 213 mg/m3, 8 Hr. TWA, Skin STEL 100 ppm, 426 mg/m3

ETHYL ACRYLATE

PEL (OSHA): 25 ppm, 100 mg/m3, 8 Hr. TWA skin
TLV (ACGIH): 5 ppm, 20 mg/m3, 8 Hr. TWA, skin, 15 ppm, 61 mg/m3 STEL

N-BUTYL METHACRYLATE

PEL (OSHA) : NONE ESTABLISHED
TLV (ACGIH): NONE ESTABLISHED
ICI INTERNAL : 50 ppm TWA

METHACRYLIC ACID

PEL (OSHA) : 20 ppm, 70 mg/m3, Skin
TLV (ACGIH) : 20 ppm, 70 mg/m3, 8 Hr. TWA, Skin

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

% Volatiles	: <1%
Odor	: typical "methacrylate"
Form	: Beads
Specific Gravity	: NE

STABILITY AND REACTIVITY

Hazardous Decomposition Product(s) : Methyl methacrylate, n-butyl methacrylate, ethyl acrylate, styrene, methacrylic acid.

Hazardous Reactions : None known.

Polymerization : will not polymerize.

TOXICOLOGICAL INFORMATION

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 material has been in use for many years with no evidence of adverse effects.

Potential decomposition products, ethyl acrylate and styrene are suspect carcinogens.

ECOLOGICAL INFORMATION

Environmental Fate and Distribution: High tonnage materials produced in partially contained systems. Solid 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.

DISPOSAL CONSIDERATIONS

"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.

TRANSPORTATION INFORMATION

Shipping Information

DOT: Not regulated.

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REGULATORY INFORMATION

Not classified as hazardous to users or for transport.

U.S. Federal Regulations

TSCA Inventory Status : Manufactured under polymer exemption as specified in 40 CFR 723.250.

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.

European Regulations:

EINECS: Polymer, monomers included.

OTHER INFORMATION

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:
Ethyl acrylate.

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.

The information herein is given in good faith but no warranty, expressed or implied, is made. ICI Acrylics 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 :

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