

SAFETY DATA SHEET**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

PRODUCT NAME LUCITE® ACRYLIC RESINS POLY(MMA) BASED

Product Description This data sheet covers the following grades: 4F, 4FD, 4FOS, 4G, 41, 41S1, 41S6, 2723, 6751, 6751S1, 6751S6, 6751S8, 6758, 6764

Grades covered 4F, 4FD, 4FOS, 4G, 41, 41S1, 41S6, 2723, 6751, 6751S1, 6751S6, 6751S8, 6758, 6764

Alternative names

CAS No. 9011-14-7

Recommended uses and restrictions on use Glass separation.
Manufacture of dental products.

Manufacturer Lucite International, Inc., 7275 Goodlett Farms Parkway, Cordova, TN 38016-4909
Phone: 1-800-4-LUCITE
msdsinfo@lucite.com

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

CAS No. 9011-14-7

4. FIRST AID MEASURES

Description of first aid measures

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

Skin Contact Wash skin with water. If symptoms (irritation or blistering) occur obtain medical attention.

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.

5. FIRE-FIGHTING MEASURES

Combustible but not readily ignited. Combustion or thermal decomposition will evolve toxic, irritant and flammable vapors. By analogy with similar materials, the product may decompose if heated to temperatures above 200°C.

Incompatible materials: None known.

Suitable extinguishing media Water spray, foam, dry powder or CO₂.

Unsuitable Extinguishing Media Do not use water jet.

Special hazards arising from the substance or mixture

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. 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. 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. 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
Incompatible materials:

Ambient.
None known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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. The following information is given as general guidance.

Control parameters

The following values apply to substances which may be evolved during thermal processing.

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.						
Methyl methacrylate	80-62-6	100 ppm 410 mg/m ³	50 ppm 205 mg/m ³	100 ppm 410 mg/m ³	50 ppm	100 ppm
100 ppm						

Appropriate engineering controls

Individual protection measures, such as personal protective equipment (PPE)

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Beads.
Color.	White.
Odour	Typically methacrylate.
pH (Value)	Not applicable.
Melting Range (°C)	150 - 230
Specific Gravity	1.18
Auto Ignition Temperature (°C)	Not available.

10. STABILITY AND REACTIVITY

Hazardous Reactions	None known.
Conditions to avoid	Keep away from heat and flame.
Materials to avoid	None known
Hazardous Decomposition Product(s)	Methyl methacrylate, Carbon dioxide, Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Ingestion	Low oral toxicity.
Inhalation	Unlikely to be hazardous by inhalation.
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.

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 has low mobility in soil.

13. DISPOSAL CONSIDERATIONS

The 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.

14. TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.

DOT (DEPARTMENT OF
TRANSPORTATION)

UN No. Not applicable

Proper Shipping Name Not applicable

15. REGULATORY INFORMATION

US Federal Regulations

SARA 302 - Extremely Hazardous Substances Not applicable

SARA 311/312 - Hazard Categories

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

WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM) Not classified.

NFPA Rating

Health 0

Flammability 1

Reactivity 0

NPCA-HMIS Rating

Health 0

Flammability 1

Reactivity 0

16. OTHER INFORMATION

The following sections contain revisions or new statements:

Date of preparation:

Inventory Status

European Union

United States (TSCA)

Canada (DSL/NDL)

Japan (ENCS)

Philippines (PICCS)

Australia (AICS)

South Korea (KECI)

China (IECSC)

TSCA Inventory Status: Reported/Included.

Listed in DSL

Listed in ENCS

Listed in PICCS

Listed in AICS

Listed in KECI

Listed in IECSC

LEGEND

Note: Not all of the following are necessarily contained in this Safety Data Sheet:

LTTEL: 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 Reauthorization Act

WHMIS: Worker Hazardous Materials Information System

This Safety Data Sheet was prepared in accordance with ANSI Z400.1-2004.

LUCITE® is the Registered Trade Mark of companies within the Lucite International Limited Group of companies.

MEDICAL USE: CAUTION: DO NOT USE IN MEDICAL APPLICATIONS INVOLVING SURGICAL 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 surgical 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.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Lucite International 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 except to the extent that exclusion is prevented by law. Lucite International 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.

The following sections contain revisions or new statements: 1

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 Lucite International 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.