

GHS COMPLIANT SAFETY DATA SHEET

 TO COMPLY WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR.1910.1200
 & THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS

SECTION 1: IDENTIFICATION

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|-------------------------|---|
| PRODUCT NAME | Isocryl® EP-581 LT |
| MFR.'S CODE ID/SYNONYMS | Isocryl® EP-581 LT, DS4-071 |
| CAS NUMBER | Proprietary |
| PRODUCT USE | Solid acrylic resin |
| RESTRICTIONS ON USE | For industrial use only |
| MANUFACTURER/SUPPLIER | Estron Chemical, Inc. |
| ADDRESS | 807 North Main Street, Calvert City, KY 42029 USA |
| GENERAL INFORMATION | (270) 395-4195 |
| EMERGENCY TELEPHONE | CHEMTREC (800) 424-9300 |

SECTION 2: HAZARDS IDENTIFICATION
Signal Word: *Warning*
GHS Classification

| Physical | Health | Environmental |
|-----------------------|--------|---------------|
| OSHA Combustible Dust | None | None |

GHS Label

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| Symbols: <i>No symbol</i> | |
| Hazard Statements May form combustible dust concentrations in air. | Precautionary Statements None |

HAZARDS NOT OTHERWISE CLASSIFIED: None identified.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

| HAZARDOUS INGREDIENTS | CAS # | % | CLASSIFICATION | H CODES |
|-----------------------|-------------|-----|-----------------------|-------------|
| Acrylic Polymer | Proprietary | 100 | OSHA Combustible Dust | <i>None</i> |

(See Section 8 for Exposure Limits)
SECTION 4: FIRST-AID MEASURES
SYMPTOMS OF EXPOSURE

| | |
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| ACUTE | Temporary mild skin or eye irritation. |
| DELAYED | Stinging, tearing, redness and swelling of the eyes. Redness or burning of the skin. |
| INHALATION | Not applicable, unless heated past the decomposition point or dust is allowed to accumulate in the air while handling. If so, remove to fresh air. |
| SKIN CONTACT | Mildly irritating to the skin. Wash thoroughly with soap and water. If skin irritation persists consult a doctor. |
| EYE CONTACT | Mildly irritating to the eyes. Wash with plenty of water for 15 minutes. Consult a physician. |
| INGESTION | If ingested, seek medical attention. |
| SPECIFIC TREATMENT | No other specific treatments are known or have been identified. |

SECTION 5: FIRE FIGHTING MEASURES

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| FLAMMABILITY CLASSIFICATION | OSHA Combustible Dust |
| FLAMMABLE LIMITS | No test data available |
| HAZARDOUS COMBUSTION PRODUCTS | Carbon monoxide and carbon dioxide. |
| EXTINGUISHING MEDIA | Dry Chemical, Water Fog, CO ₂ |
| UNUSUAL FIRE AND EXPLOSION HAZARDS | May represent a combustion hazard if dust from this material is allowed to accumulate in the air. |
| SPECIAL FIRE FIGHTING PROCEDURES | None known. |
| SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS | As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full (Bunker) protective gear. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

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| PERSONAL PRECAUTIONS | Avoid contact with skin, eyes and clothing. |
| PROTECTIVE EQUIPMENT | See Personal Protective Equipment in Section 8. |
| EMERGENCY PROCEDURES | Avoid unnecessary exposure to bystanders, prevent contact with open flames or other ignition sources. |
| ENVIRONMENTAL PRECAUTIONS | Obey relevant local, state, provincial and federal laws and regulations. Do not allow the product to enter public drainage systems or open water courses. |
| METHODS AND MATERIALS FOR CLEANING UP | Avoid creating excessive dust while collecting. Sweep or scoop into a suitable container for disposal. |

SECTION 7: HANDLING AND STORAGE

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| PRECAUTIONS FOR SAFE HANDLING | Do not allow dust to concentrate in the air from handling. If necessary, use local ventilation. Handle in accordance with good industrial hygiene and safety practice. |
| CONDITIONS FOR SAFE STORAGE | Store in cool areas, best when stored at temperatures controlled to be below 30 °C (85 °F). Keep containers closed. The product shelf life is two years from date of manufacture in an unopened container stored at 20 °C. |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| INGREDIENTS | CAS # | % | ACGIH TLV | OSHA PEL |
|-----------------|-------------|-----|-------------------------|-------------------------|
| Acrylic Polymer | Proprietary | 100 | <i>None established</i> | <i>None established</i> |

APPROPRIATE ENGINEERING CONTROLS None required.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE Safety glasses or goggles.

SKIN Impervious protective gloves and clothing as appropriate to avoid skin contact.

RESPIRATORY An appropriate NIOSH approved respirator for Dust.

HYGIENE MEASURES Handle in accordance with good industrial hygiene and safety practices. When using, do not eat, drink or smoke. Wash face and hands before breaks and at the end of work. Wash contaminated clothing before re-use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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|------------------|------------------------------|---------------------|------------------------|
| APPEARANCE | Clear granules | ODOR | Mild, esteric |
| ODOR THRESHOLD | No test data available | pH | No test data available |
| MELTING POINT | No test data available | BOILING POINT/RANGE | >200 °C |
| FLASH POINT | Over 200 °F | EVAPORATION RATE | No test data available |
| FLAMMABILITY | OSHA Combustible Dust | | |
| FLAMMABLE LIMITS | LOWER No test data available | UPPER | No test data available |

| | | | |
|--|------------------------|--------------------------------|------------------------|
| VAPOR PRESSURE | No test data available | VAPOR DENSITY | No test data available |
| RELATIVE DENSITY | 1.10 – 1.15 @ 20 °C | SOLUBILITY IN H ₂ O | Not readily soluble |
| PARTITION COEFFICIENT (n-octanol/water) | No test data available | AUTOIGNITION TEMPERATURE | No test data available |
| DECOMPOSITION TEMPERATURE | > 250 °C | VISCOSITY | No test data available |
| % VOLATILE | 1.5 Maximum | SOFTENING POINT | 115 - 130 °C |

SECTION 10: STABILITY AND REACTIVITY

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| REACTIVITY | This product does not pose a significant reactivity hazard when stored appropriately (see Section 7). |
| STABILITY | This product is stable when stored appropriately (see Section 7). |
| CONDITIONS TO AVOID | Excessive heat and open flame, material dust accumulation. |
| INCOMPATIBLE PRODUCTS | Strong oxidizing or reducing agents. |
| HAZARDOUS DECOMPOSITION PRODUCTS | Carbon dioxide and carbon monoxide. |
| POSSIBILITY OF HAZARDOUS REACTIONS | Will not occur |

SECTION 11: TOXICOLOGICAL INFORMATION

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| SYMPTOMS OF EXPOSURE | | |
| ACUTE | Temporary mild skin or eye irritation. Coughing. | |
| DELAYED | Stinging, tearing, redness and swelling of the eyes. Redness or burning of the skin. Irritation of the lungs and airways. | |
| ACUTE TOXICITY | | |
| INHALATION | May be mildly irritating. | |
| SKIN | In some cases, skin contact will cause mild, but reversible, irritation. | |
| EYES | In some cases, eye contact will cause mild, but reversible, irritation. | |
| INGESTION | Not likely to have harmful effects in normal exposures, may cause nausea or gastric distress if ingested in quantity. | |
| INHALATION TOXICITY | LC ₅₀ Rat | Not established |
| DERMAL TOXICITY | LD ₅₀ Rat | Not established |
| SKIN IRRITATION | Draize, Rabbit, 24 hours | Not established |
| EYE IRRITATION | Draize, Rabbit, 24 hours | Not established |
| ORAL TOXICITY | LD ₅₀ Rat | Not established |
| SENSITIZATION | Draize, Rabbit | Not established |
| CHRONIC EFFECTS | | |
| CARCINOGENICITY | Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65 | |
| MUTAGENIC EFFECTS | None known | |
| REPRODUCTIVE TOXICITY | None known | |
| TARGET ORGAN EFFECTS | None known | |

SECTION 12: ECOLOGICAL INFORMATION

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| ECOTOXICITY | Not known to be harmful to aquatic life. |
| TOXICITY TO FISH | Not established |

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|-------------------------------|-------------------|
| TOXICITY TO DAPHNIA | Not established |
| PERSISTANCE AND DEGRADABILITY | No data available |
| BIOACCUMULATIVE POTENTIAL | No data available |
| MOBILITY IN SOIL | No data available |
| OTHER ADVERSE EFFECTS | None known |

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL Dispose of in accordance with local, state and federal regulations. This product, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This product could become a hazardous waste, if chemical additions are made or if the product is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste.

US EPA WASTE NUMBER & DESCRIPTION No information available

SECTION 14: TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

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|------|---------------|------|---------------|----------|---------------|
| DOT | Not regulated | TDG | Not regulated | MEX | Not regulated |
| ICAO | Not regulated | IATA | Not regulated | IMDG/IMO | Not regulated |
| RID | Not regulated | ADR | Not regulated | ADN | Not regulated |

SECTION 15: REGULATORY INFORMATION

The components in this product are either listed or exempt from listing due to polymer exemption criteria for the following chemical listing inventories as indicated by an "X":

| | | |
|-------|--|---|
| AIIC | Australian Inventory of Industrial Chemicals | X |
| DSL | Canadian Domestic Substances List | X |
| ECL | Korean Existing Chemicals List | X |
| ENCS | Japanese Existing and New Chemical Substances | X |
| IECSC | Inventory of Existing Chemical Substances in China | X |
| INSQ | National Inventory of Chemical Substances in Mexico | |
| NDSL | Canadian Non-Domestic Substances List | |
| NZIoC | New Zealand Inventory of Chemicals | X |
| PICCS | Philippines Inventory of Chemicals and Chemical Substances | X |
| TCSI | Taiwan Chemical Substances List | X |
| TSCA | US Toxic Substances Control Act | X |
| VNECI | Vietnam National Existing Chemical Inventory | X |

INTERNATIONAL REGULATIONS

EU REGULATION (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization, *Substances of Very High Concern*: This product does not contain any SVHC listed substances.

REACH All components of this product are REACH registered per ECHA requirements.

C.D. 96/82/EC Council Directive 96/82/EC, Annex I not mentioned by name. With regard to possibly appropriate decomposition products see Chapter 10.

FEDERAL REGULATIONS

SARA 313 This product does not contain any chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA Section 311/312 (40 CFR 370) Hazard Categories

| | |
|-----------------------|-----|
| Acute Health Hazard | No |
| Chronic Health Hazard | No |
| Fire Hazard | Yes |
| Pressure Hazard | No |
| Reactivity Hazard | No |

CERCLA This product, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this product.

CLEAN WATER ACT This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CLEAN AIR ACT This product does not contain any substances regulated as hazardous air pollutants (HAPS under Section 112 of the Clean Air Act Amendments of 1990).

OTHER FEDERAL None known

U.S. STATE REGULATIONS

RIGHT TO KNOW The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in Sections 2 and 15 of this Safety Data Sheet.

CALIFORNIA PROP 65 No substances known to the state of California to cause cancer and/or reproductive toxicity were intentionally included in this product. However, the product may contain unknown trace amounts of substances known to the state of California to cause cancer and/or reproductive toxicity: (*styrene*).

SECTION 16: OTHER INFORMATION

DISCLAIMER This product is intended for industrial use only and should be used in accordance with the manufacturer's recommendations. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. This SDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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REASON FOR REVISION Updated information in Section 15.

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