

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

PRODUCT NAME	Isocryl® H-93
MFR.'S CODE ID/SYNONYMS	Isocryl® H-93, KL3-90
CAS NUMBER	Mixture (see Sections 3 or 8)
PRODUCT USE	Acrylic resin
RESTRICTIONS ON USE	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: *Danger*
GHS Classification

Physical	Health	Environmental
Flammable Liquids – Category 2	Skin Corrosion/Irritation – Category 2 Serious Eye Damage/Eye Irritation – Category 2A Specific Target Organ Toxicity, Single Exposure (Respiratory Tract Irritation, Central Nervous System) – Category 3	None

GHS Label

 	
Symbols: Flame Exclamation Mark	
Hazard Statements H225: Highly flammable liquid and vapour H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation H336: May cause drowsiness or dizziness	Precautionary Statements <i>Prevention</i> P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking. P233: Keep container tightly closed. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/light/equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P264: Wash exposed skin thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. <i>Response</i> P302+352: IF ON SKIN: Wash with soap and water. P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

	<p>P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P312: Call a POISON CENTER or doctor/physician if you feel unwell. P321: Specific treatment (see supplemental first aid instructions on this label) P332+313: If skin irritation occurs: Get medical advice/attention. P337+313: If eye irritation persists get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse. P370+378: In case of fire: Use foam, dry chemical powder, carbon dioxide or water fog to extinguish.</p> <p><i>Storage</i> P403+233+235: Store in a well ventilated place. Keep container tightly closed. Keep cool. P405: Store locked up.</p> <p><i>Disposal</i> P501: Dispose of contents/container to an authorized hazardous waste handler.</p>
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HAZARDS NOT OTHERWISE CLASSIFIED: None identified.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	%	CLASSIFICATION	H CODES
Acetone	67-64-1	22.0 - 28.0	Flammable Liquids – Category 2 Skin Corrosion/Irritation – Category 2 Serious Eye Damage/Eye Irritation – Category 2A Specific Target Organ Toxicity, Single Exposure (Respiratory Tract Irritation, Central Nervous System) – Category 3	H225 H315 H319 H335 & H336

(See Section 8 for Exposure Limits)

NON-HAZARDOUS INGREDIENTS	CAS #	%
Acrylic Polymer	Proprietary	72.0 - 78.0

SECTION 4: FIRST-AID MEASURES

SYMPTOMS OF EXPOSURE

ACUTE	Eye, skin or respiratory tract irritation. Coughing or sneezing. Drowsiness or dizziness.
DELAYED	Stinging, tearing, redness and swelling of the eyes. Drying, cracking, redness or burning of the skin. Respiratory tract irritation, difficulty breathing. Auditory effects.
INHALATION	May cause respiratory irritation, drowsiness or dizziness. Avoid breathing dust/fume/mist/vapours/spray. Symptoms include possible discomfort; cough, sneezing, drowsiness or dizziness. If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.
SKIN CONTACT	Causes skin irritation. Take off contaminated clothing. Rinse skin with water/shower. Prolonged or repeated contact may dry the skin. If skin irritation occurs: Get medical advice/attention.
EYE CONTACT	Causes serious eye irritation. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention.
INGESTION	Do NOT induce vomiting. If ingested, call a POISON CENTER or doctor/physician if you feel unwell.
SPECIFIC TREATMENT	No other specific treatments are known or have been identified.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABILITY CLASSIFICATION	Flammable Liquid Class IB
FLAMMABLE LIMITS	LEL: 2.1 %, by volume of solvent. UEL: 13.0 %, by volume of solvent.

HAZARDOUS COMBUSTION PRODUCTS	Carbon Dioxide, Carbon Monoxide.
EXTINGUISHING MEDIA	Dry Chemical, Foam, CO ₂ .
UNUSUAL FIRE AND EXPLOSION HAZARDS	Solvent vapors may travel in the work place. Since even residual amounts can ignite explosively, ensure all ignition sources are removed from the area. Solid streams of water may spread fire.
SPECIAL FIRE FIGHTING PROCEDURES	Wear self-contained breathing apparatus and protective suit when fighting fire. Solid streams of water may spread the fire. Do not allow run-off to enter public drainage systems or open water courses.
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

PERSONAL PRECAUTIONS	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
PROTECTIVE EQUIPMENT	See Personal Protective Equipment in Section 8.
EMERGENCY PROCEDURES	Avoid unnecessary exposure to bystanders, prevent contact with open flames or high heat sources. Isolate the area and eliminate all ignition sources. Ground and bond all containers and handling equipment. Pump with explosion-proof equipment.
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	Absorb the product onto vermiculite, floor absorbent or other absorbent materials, such as dry-lime, sand, or soda ash. Sweep or scoop into a suitable container for disposal. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Avoid contact with the eyes, skin and clothing. Wash thoroughly after handling. Do not breathe vapors. Use with adequate ventilation. Ground and bond all containers and handling equipment. Handle in accordance with good industrial hygiene and safety practice. Take precautionary measures against static discharges. Emptied containers may still be hazardous. Do not cut, drill, grind, weld or perform similar actions on or near empty containers.
CONDITIONS FOR SAFE STORAGE	Keep container tightly closed and store in a dry, well ventilated area away from extreme heat, open flame or sources of ignition. Store locked up. The product shelf life is three 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	72.0 - 78.0	<i>None established</i>	<i>None established</i>
Acetone	67-64-1	22.0 - 28.0	500 ppm	750 ppm

APPROPRIATE ENGINEERING CONTROLS Showers, eyewash stations and explosion-proof ventilation systems.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE	Chemical splash goggles or face shield.
SKIN	Wear resistant gloves (consult you safety equipment supplier) and impervious protective clothing as appropriate to prevent skin contact.
RESPIRATORY	An appropriate NIOSH approved respirator where exposure limits are exceeded.
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

APPEARANCE	Clear to slightly hazy liquid	ODOR	Strong, sweet/fruity odor
ODOR THRESHOLD	62 ppm	pH	No test data available
MELTING POINT	No test data available	BOILING POINT/RANGE	56 °C (133 °F) @ 760 mmHg
FLASH POINT	-16 °C, (-2 °F) TCC	EVAPORATION RATE	5.1 (BuAc = 1)
FLAMMABILITY	Flammable Liquid Class IB		
FLAMMABLE LIMITS	LOWER 2.1 %, <i>by volume of solvent</i>	UPPER 13.0 %, <i>by volume of solvent</i>	
VAPOR PRESSURE	186 mmHg @ 20 °C (68 °F)	VAPOR DENSITY	3.7 (Air = 1)
RELATIVE DENSITY	No test data available	SOLUBILITY IN H ₂ O	<i>Solvent</i> – Complete <i>Polymers</i> - Nil
PARTITION COEFFICIENT (n-octanol/water)	<i>Solvent</i> – Log P _{ow} = -0.24 <i>Polymers</i> – No data available	AUTOIGNITION TEMPERATURE	537 °C
DECOMPOSITION TEMPERATURE	> 250 °C	VISCOSITY	No test data available
% VOLATILE	22 - 28%	SOFTENING POINT	No test data available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	This product does not pose a significant reactivity hazard when stored appropriately (see Section 7). Solvent component may form peroxides in the presence of air.
STABILITY	This product is stable when stored appropriately (see Section 7).
CONDITIONS TO AVOID	All ignition sources, heat and open flames.
INCOMPATIBLE PRODUCTS	Strong oxidizers and reducers. Acetone reacts violently with phosphorous oxychloride.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Dioxide, Carbon Monoxide.
POSSIBILITY OF HAZARDOUS REACTIONS	Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

SYMPTOMS OF EXPOSURE			
ACUTE	Eye, skin or respiratory tract irritation. Coughing or sneezing. Drowsiness or dizziness.		
DELAYED	Stinging, tearing, redness and swelling of the eyes. Drying, cracking, redness or burning of the skin. Respiratory tract irritation, difficulty breathing. Auditory effects.		
ACUTE TOXICITY			
INHALATION	May cause respiratory irritation, drowsiness or dizziness.		
SKIN	Causes skin irritation.		
EYES	Causes serious eye irritation.		
INGESTION	Possibly harmful if swallowed – may enter lungs if swallowed or vomited.		
INHALATION TOXICITY	LC ₅₀ Rat, 4 h	Acetone Polymers	76.0 mg/l, causes irritation. Not established
DERMAL TOXICITY	LD ₅₀ Rabbit	Acetone Polymers	7,426 mg/kg Not established
SKIN IRRITATION	Draize, Rabbit, 24 hours	Acetone	Mild skin irritation
EYE IRRITATION	Draize, Rabbit, 24 hours	Acetone	Moderate eye irritation
ORAL TOXICITY	LD ₅₀ Rat	Acetone Polymers	5,340 mg/kg Not established
SENSITIZATION	Draize, Rabbit	Acetone Polymers	Not a skin sensitizer Not established

CHRONIC EFFECTS	
CARCINOGENICITY	Not listed as a carcinogen by ACGIH, IARC, or NTP.
MUTAGENIC EFFECTS	None known
REPRODUCTIVE TOXICITY	This product may contain trace amounts of methanol and benzene, known to the State of California to cause birth defects or other reproductive harm (see Section 15 for more details).
TARGET ORGAN EFFECTS	Respiratory Tract Irritation, Central Nervous System.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	Not known to be harmful to aquatic life.		
TOXICITY TO FISH	LC ₅₀ Oncorhynchus mykiss, 48 h	Acetone Polymers	6,100 mg/l Not established
TOXICITY TO DAPHNIA	EC ₅₀ Daphnia magna, 48 h	Acetone Polymers	7,630 mg/l Not established
TOXICITY TO ALGAE	EC ₅₀ Psuedokirchneriella Subcapitata, 73 h	Acetone Polymers	Not established Not established
PERSISTANCE AND DEGRADABILITY		Acetone Polymers	Readily biodegradable Not established
BIOACCUMULATIVE POTENTIAL	Partition coefficient (log P _{ow})	Acetone Polymers	-0.224 (<i>not bioaccumulative</i>) Not established
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. Destroy by incineration with off-gas scrubber. Do not discharge effluent containing this product into lakes, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact you State Water Board or Regional Office of the Environmental Protection Agency.
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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.

U.S. DOT

Proper Shipping Name: Resin Solution, *flammable*
Classification: 3
UN#: 1866
Packing Group: II
Hazard Label: Flammable Liquid

ICAO / IATA

Proper Shipping Name: Resin Solution, *flammable*
Classification: 3
UN#: 1866
Packing Group: II
Hazard Label: Flammable Liquid

IMDG

Proper Shipping Name: Resin Solution, *flammable*
 Classification: 3
 UN#: 1866
 Packing Group: II
 EmS#: F-E, S-D
 Hazard Label: Flammable Liquid

ADR/RID

Proper Shipping Name: Resin Solution, *flammable*
 Classification: 3
 UN#: 1866
 Packing Group: II
 Hazard Label: Flammable Liquid

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	
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.

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	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Pressure Hazard	No
Reactivity Hazard	No

CERCLA This product, as supplied, contains substances (acetone) 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.

Acetone (67-64-1): 5000 lb RQ

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 or below.

Massachusetts Right to Know, may contain 0 – 0.1% of Benzene (71-43-2)

CALIFORNIA PROP 65 **CALIFORNIA PROPOSITION 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):** WARNING! This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

<u>Component</u>	<u>CAS #</u>	<u>Amount</u>
Benzene	71-43-2	0.0025 %
Methanol	67-56-1	0.0031 %

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).

DATE OF REVISION February 20, 2023, *replaces the October 29, 2020 version.*

REASON FOR REVISION Updated properties in Section 9 pursuant to PCF 23-002. Updated listings in Section 15.

SDS PREPARED BY Glen Pearson

SDS APPROVED BY Robert Auerbach