

THE EDGE OF INNOVATION

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-112S

MFR.'S CODE ID/SYNONYMS Isocryl® H-112S, DS13-33, DS13-31

CAS NUMBER Mixture (see Sections 3 or 8)

PRODUCT USE Resin for coatings

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
	Category 4 Skin Corrosion/Irritation – Category 2	Hazardous to the Aquatic Environment, Acute Hazard – Category 3 Hazardous to the Aquatic Environment, Chronic Hazard – Category 3

GHS Label



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Symbols: Flame Exclamation Mark	•
Hazard Statements	Precautionary Statements
H226: Flammable liquid and vapour	Prevention
H302: Harmful if swallowed	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.
H315: Causes skin irritation	P233: Keep container tightly closed.
H320: Causes eye irritation	P240: Ground/bond container and receiving equipment.
H332: Harmful if inhaled	P241: Use explosion-proof electrical/ventilating/light/equipment.
H335: May cause respiratory irritation	P242: Use only non-sparking tools.
H336: May cause drowsiness or dizziness	P243: Take precautionary measures against static discharge.
H412: Harmful to aquatic life with long lasting effects	P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264: Wash exposed skin thoroughly after handling.
	P270: Do not eat, drink or smoke when using this product.
	P271: Use only outdoors or in a well-ventilated area.
	P273: Avoid release to the environment
	P280: Wear protective gloves/protective clothing/eye protection/face protection.
	Response
	P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if
	you feel unwell.
	P302+352: IF ON SKIN: Wash with plenty of 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+312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if vou feel unwell. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P321: Specific treatment (see supplemental first aid instructions on this label) P330: Rinse mouth. 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. Storage P403+233+235: Store in a well ventilated place. Keep container tightly closed. Keep cool. P405: Store locked up. Disposal P501: Dispose of contents/container to an authorized hazardous waste handler.

HAZARDS NOT OTHERWISE CLASSIFIED: None identified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS#	%	CLASSIFICATION	H CODES
Methyl Amyl Ketone	110-43-0	18 - 22	Flammable Liquids – Category 3	H226
			Acute Toxicity (Oral, Inhalation) – Category 4	H302, H332
			Skin Corrosion/Irritation – Category 2	H315
			Eye Damage/Irritation – Category 2B	H320
			Specific Target Organ Toxicity, Single Exposure	H335, H336
			(Central Nervous System) – Category 3	
			Hazardous to the Aquatic Environment, Acute Hazard	H402
			- Category 3	
			Hazardous to the Aquatic Environment, Chronic	H412
			Hazard – Category 3	

(See Section 8 for Exposure Limits)

NON-HAZARDOUS INGREDIENTS	CAS#	%
Acrylic Polymers	Proprietary	78 - 82

SECTION 4: FIRST-AID MEASURES

SYMPTOMS	OF EXPOSURE	ì

ACUTE Drowsiness or dizziness. Skin and/or eye irritation. Respiratory irritation. Nausea.

DELAYED Stinging, tearing, redness and swelling of the eyes. Redness or burning of the skin. Headache.

Nausea. Unconsciousness.

INHALATION Harmful if inhaled. May cause drowsiness or dizziness. May be irritating to the respiratory tract. If

inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. If breathing is labored or with coughing, give 100% supplemental oxygen. If not breathing begin artificial respiration and get medical aid.

SKIN CONTACT Causes skin irritation. If on skin (or hair), remove/take off immediately all contaminated clothing.

Rinse skin with water/shower. Wash thoroughly with soap and water. If skin irritation occurs,

consult a doctor.

EYE CONTACT Causes eye irritation. Rinse cautiously with water for several minutes. Remove contact lenses if

present and easy to do - continue rinsing. Wash with plenty of water for 15 minutes. Consult a

physician.

INGESTION Harmful if swallowed. Do NOT induce vomiting unless directed by medical personnel. If ingested,

call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

SPECIFIC TREATMENT No other specific treatments are known or have been identified.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABILITY CLASSIFICATION GHS - Flammable Liquid Category 3

U.S - Combustible Liquid Class II

FLAMMABLE LIMITS LEL: 1.1 %, by volume of solvent.

UEL: 7.9 %, by volume of solvent.

HAZARDOUS COMBUSTION PRODUCTS Carbon Dioxide, Carbon Monoxide.

EXTINGUISHING MEDIA Dry Chemical, Foam, CO₂., Water Fog

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

stream 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.

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. Avoid

breathing 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.

Wear appropriate protective equipment when handling this material (See Section 8).

CONDITIONS FOR SAFE STORAGE Store in cool, dry, well-ventilated areas. Keep containers closed. Do not store near

extreme heat, open flame or sources of ignition. The product shelf life is two years from

date of manufacture in an unopened container stored at 20 $^{\circ}\text{C}.$

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTSCAS #%ACGIH TLVOSHA PELAcrylic PolymersProprietary78 - 82None establishedNone established

Methyl Amyl Ketone 110-43-0 18 - 22 50 ppm 100 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 your 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 liquid **ODOR** Strong, esteric pН ODOR THRESHOLD No test data available No test data available 149 °C @ 760 mmHg MELTING POINT No test data available BOILING POINT/RANGE 38.3 °C (101.0 °F), closed cup **EVAPORATION RATE** FLASH POINT 0.34 (n-Butyl Acetate)

FLAMMABILITY GHS - Flammable Liquid Cat. 3; U.S - Combustible Liquid Class II

FLAMMABLE LIMITS LOWER 1.1 %, by volume of solvent UPPER 7.9 %, by volume of solvent VAPOR PRESSURE 2.14 mmHg @ 20 °C VAPOR DENSITY 3.94 (Air = 1) RELATIVE DENSITY No test data available SOLUBILITY IN $_{2}$ O Solvent — No data Polymers - Nil

PARTITION COEFFICIENT

AUTOIGNITION

TEMPERATURE 393 °C

Gardner, Z6

(n-octanol/water) DECOMPOSITION

TEMPERATURE > 250 °C (Polymer) VISCOSITY

Solvent - log Pow: 1.98

% VOLATILE 18 - 22% 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).

STABILITY This product is stable when stored appropriately.

CONDITIONS TO AVOID All ignition sources, heat and open flames.

INCOMPATIBILE PRODUCTS Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS Carbon Dioxide, Carbon Monoxide.

POSSIBILITY OF HAZARDOUS REACTIONS Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

SYMPTOMS OF EXPOSURE

ACUTE Drowsiness or dizziness. Skin and/or eye irritation. Respiratory irritation. Nausea.

DELAYED Stinging, tearing, redness and swelling of the eyes. Redness or burning of the skin. Headache.

Nausea. Unconsciousness.

ACUTE TOXICITY

INHALATION Harmful if inhaled. May cause drowsiness or dizziness. May be irritating to the respiratory

tract.

SKIN Causes skin irritation.

EYES Causes eye irritation.

INGESTION Harmful if swallowed.

INHALATION TOXICITY LC₅₀ Rat, 4 hours MAK > 16.7 mg/l

Polymers Not established

DERMAL TOXICITY LD₅₀ Rabbit MAK > 2000 mg/kg

Polymers Not established

SKIN IRRITATION Draize, Rabbit, 4 hours MAK Skin irritatant

Polymers No data available

EYE IRRITATION Draize, Rabbit MAK Eye irritant

Polymers No data available

ORAL TOXICITY LD₅₀ Rat MAK 1670 mg/kg

Polymers Not established

SENSITIZATION Lymph node assay, mouse Did not cause sensitization

CHRONIC EFFECTS

CARCINOGENICITY Not listed as a carcinogen by ACGIH, IARC, or NTP.

MUTAGENIC EFFECTS None known

REPRODUCTIVE TOXICITY None known

TARGET ORGAN EFFECTS Narcotic Effects (Inhalation)

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY Harmful to aquatic life with long lasting effects.

TOXICITY TO FISH LC₅₀ Pimephales promelas, 96 h MAK 131 mg/l

Polymers Not established

TOXICITY TO DAPHNIA EC50 Daphnia magna, 48 h MAK > 100 mg/l

Polymers Not established

TOXICITY TO ALGEA EC₅₀ Selenastrum capr., 72 h MAK 98.2 mg/l

Polymers Not established

PERSISTANCE AND No data available for polymers.

DEGRADABILITY MAK: Activated sludge, 28 days, 69% biodegradation.

 $Readily\ biodegradable,\ according\ to\ appropriate\ OECD\ test$

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. Dispose of

surplus and non-recyclable products via a licensed waste disposal contractor. Empty containers may retain some product residues. Vapor from product residues may create a flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been thoroughly cleaned. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the

classification determination are listed in 40 CFR Parts 261.3.

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 <u>For ground transportation ONLY</u>:

Proper Shipping Name: Combustible liquid, n.o.s. (2-hepatanone).

Classification: Comb liq

UN#: NA1993 Packing Group: III

Hazard Label: Combustible Liquid

All other transport

Proper Shipping Name: Resin solution, flammable (2-hepatanone).

Classification: 3 UN#: 1866 Packing Group: III

Hazard Label: Flammable Liquid

ICAO / IATA Proper Shipping Name: Resin solution, flammable (2-hepatanone).

Classification: 3 UN#: 1866 Packing Group: III

Hazard Label: Flammable Liquid

Special Note: The flash point for this material is greater than 100 °F (38 °C). Therefore, in accordance with CFR 49 173.150(f) non-bulk containers (<450 L or <119 gallon capacity) of this material may be shipped as non-regulated when transported solely by land, as long as the material is not a hazardous waste.

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 One or more components of this product are not REACH registered. Import quantities may be subject

to limitation.

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 Yes
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).

DATE OF REVISION February 22, 2023, replaces the February 6, 2023 version

REASON FOR REVISION Updated the listings in Section 15.

SDS PREPARED BY Glen Pearson

SDS APPROVED BY Robert Auerbach