

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-85TB
MFR.'S CODE ID/SYNONYMS	Isocryl® H-85TB, DS11-89
CAS NUMBER	Mixture (see Sections 3 or 8)
PRODUCT USE	Resin solution 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
Flammable Liquids – Category 2	Acute Toxicity (Inhalation) – Category 4 Specific Target Organ Toxicity, Single Exposure (Central Nervous System) – Category 3	Hazardous to the Aquatic Environment, Acute Hazard – Category 3

GHS Label

<p>Symbols: Flame  Exclamation Mark </p>	
<p>Hazard Statements H225: Highly flammable liquid and vapour H332: Harmful if inhaled H335: May cause respiratory irritation H336: May cause drowsiness or dizziness H402: Harmful to aquatic life</p>	<p>Precautionary Statements</p> <p><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. 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.</p> <p><i>Response</i> 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 person to fresh air and keep comfortable for breathing. P312: Call a POISON CENTER or doctor/physician if you feel unwell. 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>
--	--

HAZARDS NOT OTHERWISE CLASSIFIED: None identified.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	%	CLASSIFICATION	H CODES
t-Butyl Acetate	540-88-5	35 - 45	Flammable Liquids – Category 2 Acute Toxicity (Inhalation) – Category 4 Specific Target Organ Toxicity, Single Exposure (Central Nervous System) – Category 3 Hazardous to the Aquatic Environment, Acute Hazard – Category 3	H225 H332 H335, H336 H402

(See Section 8 for Exposure Limits)

NON-HAZARDOUS INGREDIENTS	CAS #	%
Acrylic Polymers	Proprietary	55 - 65

SECTION 4: FIRST-AID MEASURES

SYMPTOMS OF EXPOSURE

ACUTE	Drowsiness or dizziness. Respiratory irritation. Temporary mild skin or eye irritation. Nausea.
DELAYED	Stinging, tearing, redness and swelling of the eyes. Redness or burning of the skin. Headache. Nausea. Unconsciousness.
INHALATION	Harmful if inhaled. IF INHALED: Remove person to fresh air and keep 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	Mildly irritating to the skin. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash thoroughly with soap and water.
EYE CONTACT	Mildly irritating to the eyes. Wash with plenty of water for 15 minutes. Consult a physician.
INGESTION	Do not induce vomiting unless directed by medical personnel. If ingested, seek medical attention.
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: 1.2 %, by volume of solvent. UEL: 9.8 %, by volume of solvent.
HAZARDOUS COMBUSTION PRODUCTS	Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen and Sulfur.
EXTINGUISHING MEDIA	Dry Chemical, Foam, CO ₂ , 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. Caustic soda may induce vigorous polymerization of the resinous material at temperatures around 200 °C.
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.
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 Polymers	Proprietary	55 - 65	<i>None established</i>	<i>None established</i>
t-Butyl Acetate	540-88-5	35 - 45	200 ppm	200 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 liquid	ODOR	Strong, esteric
ODOR THRESHOLD	No test data available	pH	No test data available
MELTING POINT	No test data available	BOILING POINT/RANGE	97 °C @ 760 mmHg
FLASH POINT	TCC, 4°C (39°F)	EVAPORATION RATE	2.8 (n-Butyl Acetate)
FLAMMABILITY	Flammable Liquid Class IB		
FLAMMABLE LIMITS	LOWER 1.2 %, <i>by volume of solvent</i>	UPPER 9.8 %, <i>by volume of solvent</i>	
VAPOR PRESSURE	42 mmHg @ 20 °C	VAPOR DENSITY	4.65 (Air = 1)
RELATIVE DENSITY	1.0 – 1.2 @ 25° C	SOLUBILITY IN H ₂ O	<i>Solvent – 7.82 gm/l @ 20 °C</i> <i>Polymers - Nil</i>
PARTITION COEFFICIENT (n-octanol/water)	<i>Solvent: Log P_{ow} = 1.64 @ 22 °C</i> <i>Polymers - No test data available</i>	AUTOIGNITION TEMPERATURE	589 °C (1,092 °F)
DECOMPOSITION TEMPERATURE	> 250 °C (Polymer)	VISCOSITY	10,000 – 15,000 cps
% VOLATILE	35 – 45%	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 (see Section 7 for more details regarding handling and storage).
CONDITIONS TO AVOID	All ignition sources, heat and open flames.
INCOMPATIBLE 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. Respiratory irritation. Temporary mild skin or eye 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.		
SKIN	Causes skin irritation.		
EYES	Causes serious eye irritation.		
INGESTION	Harmful if swallowed – may enter lungs if swallowed or vomited.		
INHALATION TOXICITY	LC ₅₀ Rat, 4 hours	t-Butyl Acetate Polymers	2,230 mg/m ³ Not established
DERMAL TOXICITY	LD ₅₀ Rabbit	t-Butyl Acetate Polymers	2,000 mg/kg Not established
SKIN IRRITATION	Draize, Rabbit, 24 hours		Not established
EYE IRRITATION	Draize, Rabbit, 24 hours	t-Butyl Acetate	Moderate
ORAL TOXICITY	LD ₅₀ Rat, 4 hours	t-Butyl Acetate Polymers	4,100 mg/l Not established
SENSITIZATION	Draize, Rabbit		No data available
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			Narcotic Effects (Inhalation)

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	Harmful to aquatic life.		
TOXICITY TO FISH	LC ₅₀ , <i>Oncorhynchus mykiss</i> , 96 h	t-Butyl Acetate Polymers	240 mg/l Not established
TOXICITY TO DAPHNIA	EC ₅₀ <i>Daphnia magna</i> , 48 h	t-Butyl Acetate Polymers	350 mg/l Not established
TOXICITY TO ALGAE	EC ₅₀ <i>Pseudokirchneriella subsp.</i> , 72 h	t-Butyl Acetate Polymers	16 mg/l Not established

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, contains 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.

t-Butyl Acetate (540-88-5): 5000 lb final RQ; 2270 kg final 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.

CALIFORNIA PROP 65 This product may contain trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

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 November 12, 2021, *replaces the November 10, 2021 DS11-89 version*

REASON FOR REVISION Changed the product name to Isocryl[®] H-85TB.

SDS PREPARED BY Glen Pearson

SDS APPROVED BY Robert Auerbach