

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-29
MFR.'S CODE ID/SYNONYMS	Isocryl H-29, DS13-3
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
Flammable Liquids – Category 3	Specific Target Organ Toxicity, Single Exposure (Central Nervous System) – Category 3	Hazardous to the Aquatic Environment, Acute Hazard – Category 3

GHS Label

 Symbols: Flame  Exclamation Mark	
Hazard Statements H226: Flammable liquid and vapour H336: May cause drowsiness or dizziness H402: Harmful to aquatic life	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. 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. <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+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 you feel unwell. P370+378: In case of fire: Use foam, dry chemical powder, carbon dioxide or water fog to extinguish.

	<i>Storage</i> P403+233+235: Store in a well ventilated place. Keep container tightly closed. Keep cool. P405: Store locked up. <i>Disposal</i> 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
n-Butyl Acetate	123-86-4	48 - 52	Flammable Liquids – Category 3 Specific Target Organ Toxicity, Single Exposure (Central Nervous System) – Category 3 Hazardous to the Aquatic Environment, Acute Hazard – Category 3	H226 H336 H402

(See Section 8 for Exposure Limits)

NON-HAZARDOUS INGREDIENTS	CAS #	%
Acrylic Polymers	Proprietary	48 - 52

SECTION 4: FIRST-AID MEASURES

SYMPTOMS OF EXPOSURE

ACUTE	Drowsiness or dizziness. 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	May cause drowsiness or dizziness. 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.
SKIN CONTACT	May cause mild, but reversible, skin irritation Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
EYE CONTACT	May cause mild, but reversible, eye irritation. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists, get medical advice/attention.
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 IC
FLAMMABLE LIMITS	LEL: 1.2 %, by volume of solvent. UEL: 7.6 %, 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	Do not eat, drink or smoke when using this product. Take off immediately all contaminated clothing and wash it before reuse.
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. Keep away from heat/sparks/open flames/hot surfaces – No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical / ventilating / light / equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wear appropriate protective equipment when handling this material (See Section 8).
CONDITIONS FOR SAFE STORAGE	Keep container tightly closed. Ground/bond container and receiving equipment. Store in a well-ventilated place. Store locked up. Keep cool. 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 Polymers	Proprietary	48 - 52	<i>None established</i>	<i>None established</i>
n-Butyl Acetate	123-86-4	48 - 52	150 ppm	150 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	125 °C @ 760 mmHg
FLASH POINT	TCC, 71°F (22°C)	EVAPORATION RATE	1 (n-Butyl Acetate)
FLAMMABILITY	Flammable Liquid Class IC		
FLAMMABLE LIMITS	LOWER 1.2 %, by volume of solvent	UPPER 7.6 %, by volume of solvent	
VAPOR PRESSURE	8.4 mmHg @ 20 °C	VAPOR DENSITY	4 (Air = 1)
RELATIVE DENSITY	No test data available	SOLUBILITY IN H ₂ O	Solvent – 0.68% @ 20 °C Polymers - Nil
PARTITION COEFFICIENT (n-octanol/water)	No test data available	AUTOIGNITION TEMPERATURE	407 °C (762 °F)

DECOMPOSITION**TEMPERATURE****% VOLATILE**

> 250 °C (Polymer)

48 - 52%

VISCOSITY**SOFTENING POINT**

Gardner, X – Z1

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.

INCOMPATIBLE PRODUCTS

Strong oxidizers and caustic soda.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen and Sulfur.

POSSIBILITY OF HAZARDOUS REACTIONS

Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION**SYMPTOMS OF EXPOSURE****ACUTE**

Drowsiness or dizziness. 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**

May cause drowsiness or dizziness.

SKIN

May cause mild, but reversible, skin irritation

EYES

May cause mild, but reversible, eye irritation

INGESTION

Harmful if swallowed – may enter lungs if swallowed or vomited.

INHALATION TOXICITYLC₅₀ RatButyl Acetate
PolymersNot established
Not established**DERMAL TOXICITY**LD₅₀ RabbitButyl Acetate
Polymers14,112 mg/kg
Not established**SKIN IRRITATION**

Draize, Rabbit, 24 hours

Butyl Acetate
PolymersNot established
Not established**EYE IRRITATION**

Draize, Rabbit, 24 hours

Butyl Acetate
PolymersNot established
Not established**ORAL TOXICITY**LD₅₀ RatButyl Acetate
Polymers10,760 mg/kg
Not established**SENSITIZATION**

Draize, Rabbit

No data available

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.

TOXICITY TO FISHLC₅₀ Pimephales promelas, 96 hButyl Acetate
Polymers18 mg/l
Not established

TOXICITY TO DAPHNIA	EC ₅₀ Daphnia magna, 48 h	Butyl Acetate Polymers	44 mg/l Not established
TOXICITY TO ALGAE	ErC ₅₀ Desmodesmus subsp., 72 h	Butyl Acetate Polymers	648 mg/l Not established
PERSISTENCE 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. 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

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

ICAO / IATA

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

IMDG

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

ADR/RID

Proper Shipping Name: Resin Solution, *flammable*
Classification: 3
UN#: 1866
Packing Group: III
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
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, <i>Substances of Very High Concern</i> : 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	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.
--------	--

n-Butyl Acetate (123-86-4): 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.
---------------	--

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	August 9, 2022, <i>replaces the August 9, 2022 DS13-3 version</i>
REASON FOR REVISION	Changed the name of the product to Isocryl H-29 pursuant to PIF26-007. Updated the hazards for butyl acetate throughout to match the latest supplier information.
SDS PREPARED BY	Glen Pearson
SDS APPROVED BY	Robert Auerbach