

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® N-44T
MFR.'S CODE ID/SYNONYMS	Isocryl® N-44T, JC5-151, JC7-70, JC5-147, JC8-47
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: *Danger*

GHS Classification

Physical	Health	Environmental
Flammable Liquids – Category 2	Acute Toxicity (Oral) – Category 4 Skin Corrosion/Irritation – Category 2 Eye Damage/Irritation – Category 2A Toxic to Reproduction – Category 2 Specific Target Organ Toxicity, Single Exposure (Narcotic Effects) – Category 3 Specific Target Organ Toxicity, Repeated Exposure – Category 2	Hazardous to the Aquatic Environment, Acute Hazard – Category 2 Hazardous to the Aquatic Environment, Chronic Hazard – Category 2

GHS Label

Symbols: Flame  Health Hazard  Exclamation Mark  Environment 	
Hazard Statements H225: Highly flammable liquid and vapour H302: Harmful if swallowed H315: Causes skin irritation H319: Causes serious eye irritation H336: May cause drowsiness or dizziness H361: Suspected of damaging fertility or the unborn child. H373: May cause damage to organs through prolonged or repeated exposure H411: Toxic to aquatic life with long lasting effects	Precautionary Statements <i>Prevention</i> P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. 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. P260: Do not breathe 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.

	<p><i>Response</i></p> <p>P301+312+330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.</p> <p>P302+352: IF ON SKIN: Wash with soap and water.</p> <p>P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>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.</p> <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.</p> <p>P308+313: IF exposed or concerned: Get medical advice/attention.</p> <p>P321: Specific treatment (see supplemental first aid instructions on this label)</p> <p>P332+313: If skin irritation occurs: Get medical advice/attention.</p> <p>P337+313: If eye irritation persists get medical advice/attention.</p> <p>P362+P364: Take off contaminated clothing and wash it before reuse.</p> <p>P370+378: In case of fire: Use foam, dry chemical powder or carbon dioxide to extinguish.</p> <p>P391: Collect spillage.</p> <p><i>Storage</i></p> <p>P403+233+235: Store in a well ventilated place. Keep container tightly closed. Keep cool.</p> <p>P405: Store locked up.</p> <p><i>Disposal</i></p> <p>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
Toluene	108-88-3	58.0 – 62.0	Flammable Liquids – Category 2 Acute Toxicity (Oral) – Category 4 Skin Corrosion/Irritation – Category 2 Eye Damage/Irritation – Category 2A Toxic to Reproduction – Category 2 Specific Target Organ Toxicity, Single Exposure (Narcotic Effects) – Category 3 Specific Target Organ Toxicity, Repeated Exposure – Category 2 Hazardous to the Aquatic Environment, Acute Hazard – Category 2 Hazardous to the Aquatic Environment, Chronic Hazard – Category 2	H225 H302 H315 H319 H361 H336 H373 H401 H411

(See Section 8 for Exposure Limits)

NON-HAZARDOUS INGREDIENTS	CAS #	%
Acrylic Resin	Proprietary	38.0 – 42.0

SECTION 4: FIRST-AID MEASURES

SYMPTOMS OF EXPOSURE

ACUTE	Eye, skin 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.

INHALATION Do not inhale vapours, mists or dusts. 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	Harmful if swallowed. 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: 1.3 %, by volume of solvent. UEL: 7.0 %, by volume of solvent.
HAZARDOUS COMBUSTION PRODUCTS	Carbon Dioxide, Carbon Monoxide.
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 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	Prevent 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	Prevent 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. Do not eat, drink or smoke when using this product. 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	Store in cool, dry, well-ventilated areas. Keep containers tightly closed. Do not store near extreme heat, open flame or sources of ignition. Store locked up. 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 Resin	Proprietary	38.0 – 42.0	<i>None established</i>	<i>None established</i>
Toluene	108-88-3	58.0 – 62.0	20 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, aromatic
ODOR THRESHOLD	No test data available	pH	No test data available
MELTING POINT	No test data available	BOILING POINT/RANGE	110 °C @ 760 mmHg
FLASH POINT	4.4 °C, (40 °F), Closed Cup	EVAPORATION RATE	No test data available
FLAMMABILITY	Flammable Liquid Class IB		
FLAMMABLE LIMITS	LOWER 1.3 %, <i>by volume of solvent</i>	UPPER 7.0 %, <i>by volume of solvent</i>	
VAPOR PRESSURE	3.79 kPa @ 25 °C	VAPOR DENSITY	3.1 (Air = 1)
RELATIVE DENSITY	0.98	SOLUBILITY IN H ₂ O	<i>Solvent</i> – 0.7 g/l @ 74 °F <i>Polymers</i> - Nil
PARTITION COEFFICIENT (n-octanol/water)	No test data available	AUTOIGNITION TEMPERATURE	480 °C (896 °F)
DECOMPOSITION TEMPERATURE	> 250 °C (Polymer)	VISCOSITY	4000 – 4500 cps
% VOLATILE	58.0 – 62.0 %	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).
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	Eye, skin 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.		
ACUTE TOXICITY			
INHALATION	May cause drowsiness or dizziness.		
SKIN	Causes skin irritation.		
EYES	Causes serious eye irritation.		
INGESTION	Harmful if swallowed.		
INHALATION TOXICITY	LC ₅₀ Rat	Toluene Polymers	8000 ppm Not established
DERMAL TOXICITY	LD ₅₀ Rabbit	Toluene Polymers	4,000 mg/kg Not established

SKIN IRRITATION	Draize, Rabbit, 24 hours	Toluene	Moderate
EYE IRRITATION	Draize, Rabbit, 24 hours	Toluene	Severe
ORAL TOXICITY	LD ₅₀ Rat	Toluene Polymers	2,600 mg/kg 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		Suspected of damaging the unborn child	
TARGET ORGAN EFFECTS		Narcotic Effects (Inhalation). May cause damage to organs through prolonged or repeated exposure.	

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	Toxic to aquatic life with long lasting effects.		
TOXICITY TO FISH	LC ₅₀ Oncorhynchus kisutch, 96 h	Toluene Polymers	8.11 mg/l Not established
TOXICITY TO DAPHNIA	EC ₅₀ Daphnia magna, 48 h	Toluene Polymers	5.46 – 9.83 mg/l Not established
PERSISTANCE AND DEGRADABILITY	No data available		
BIOACCUMULATIVE POTENTIAL	No data available		
MOBILITY IN SOIL	The solvent in this product is a mobile liquid.		
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.
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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, Marine Pollutant

ICAO / IATA

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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
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

FEDERAL REGULATIONS

SARA 313 This product contains a chemical, Toluene (CAS 108-88-3), which is 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 a substance, Toluene (CAS 108-88-3), regulated as a hazardous substance 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 contains a substance, Toluene (CAS 108-88-3), regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CLEAN AIR ACT This product contains a substance, Toluene (CAS 108-88-3), regulated as a hazardous air pollutant (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 contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

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 June 8, 2022, *replaces the March 9, 2022 version*

REASON FOR REVISION Added Shelf Life statement to Section 7.

SDS PREPARED BY Glen Pearson

SDS APPROVED BY

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