ESTRON CHEMICAL

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	Lumicryl 102
MFR.'S CODE ID/SYNONYMS	Lumicryl 102
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 Liquid – Category 2	Eye Damage/Irritation - Category 2A Specific Target Organ Toxicity – Single Exposure - Category 3	Hazardous to the Aquatic Environment, Acute Hazard – Category 3

GHS Label

Symbols: Flame  Exclamation Mark 

Hazard Statements
H225: Highly flammable liquid and vapour
H319: Causes serious eye irritation
H336: May cause drowsiness or dizziness
H402: Harmful to aquatic life

Precautionary Statements
Prevention
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 hands and other exposed skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/eye protection/face protection.

Response
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.
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.
P337+313: If eye irritation persists get medical advice/attention.
P370+378: In case of fire: Use dry chemical, water fog or CO_2 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
n-Propyl Acetate	109-60-4	65 – 69	Flammable Liquid – Category 2 Eye Irritation – Category 2A Specific Target Organ Toxicity – Single Exposure - Category 3 Hazardous to the Aquatic Environment, Acute Hazard – Category 3	H225 H319 H336 H402

(See Section 8 for Exposure Limits)

NON-HAZARDOUS INGREDIENTS	CAS #	%
Acrylic Polymers	Proprietary	31 – 35

SECTION 4: FIRST-AID MEASURES

SYMPTOMS OF EXPOSURE

ACUTE	Drowsiness or dizziness. Serious eye irritation. Temporary mild skin 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. If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is labored or with coughing, give 100% supplemental oxygen. If not breathing begin artificial respiration and get medical aid.
SKIN CONTACT	May cause mild skin irritation. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 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: 1.7 %, by volume of solvent. UEL: 8.0 %, 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 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. Wear appropriate protective equipment when handling this material (See Section 8). At room temperature, this product has a pourable viscosity. Therefore, material transfer and processing does not necessitate heating.
CONDITIONS FOR SAFE STORAGE	This material contains an aerobic inhibitor that in the presence of air enhances shelf life stability. Store unopened containers of this product at or below 20 ºC away from direct sunlight, ignition sources, and heat sources. The product shelf life is two years from date of manufacture in an unopened container stored at 20 °C. Unexpected or uncontrolled temperature excursions during shipping, transit storage, and final storage may adversely affect useful shelf life and is beyond the manufacturers control or responsibility. This product can polymerize prematurely under improper storage conditions. Therefore, store this product in tightly closed containers in a properly vented storage area away from heat, sparks, open flame, strong oxidizers, radiation, direct sunlight, and materials which may generate free radicals (e.g. initiators). Prevent moisture exposure and contamination by foreign materials. Use only non-sparking tools and limit storage time. Store all products in epoxy-phenolic lined carbon steel, stainless steel or polyethylene lined drums or glass containers. The following steps are further recommendation to prevent premature polymerization. - maintain a head of airspace in storage containers to support the oxygen requirements of the inhibitors, do not blanket with inert gases - avoid contact with contaminants such as iron and copper (which can initiate polymerization) - check inhibitor levels periodically Product is packaged with inhibitor(s). Unless inhibited, product can polymerize, raising temperature and pressure which could result in possible catastrophic container rupture. Check inhibitor content periodically, adding to bulk material if needed. In addition, the product's inhibitor(s) require the presence of dissolved oxygen. Maintain, at a minimum, the original headspace in the product container and do not blanket or mix with oxygen-free gas as it renders inhibitor ineffective. Ensure air space (oxygen) is present during product heating/melting. Keep away from strong oxidizers and caustic soda.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS	CAS #	%	ACGIH TLV	OSHA PEL
Acrylic Polymers	Proprietary	31 – 35	*None established*	*None established*
n-Propyl Acetate	109-60-4	65 – 69	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	102 °C (216 °F)
FLASH POINT	57 °F (14°C) closed cup	EVAPORATION RATE	No test data available
FLAMMABILITY	Flammable Liquid Class IB		
FLAMMABLE LIMITS	LOWER 1.7 %, *by volume of solvent*	UPPER	8.0 %, *by volume of solvent*
VAPOR PRESSURE	25 mmHg @ 20 °C	VAPOR DENSITY	3.53 (Air = 1)
RELATIVE DENSITY	0.95 – 1.05 @ 20 °C	SOLUBILITY IN H_2O	*Solvent* – 18.9 gm/L @ 20 °C *Polymers* – Nil
PARTITION COEFFICIENT (n-octanol/water)	No test data available	AUTOIGNITION TEMPERATURE	380 °C (716 °F)
DECOMPOSITION TEMPERATURE	> 170 °C (Polymer)	VISCOSITY	150 – 300 cps
% VOLATILE	65 – 75%	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, although product can polymerize with exposure to heat or light and in the absence of oxygen
CONDITIONS TO AVOID	Moisture and excessive heat, flames, sparks and other sources of ignition.
INCOMPATIBILE PRODUCTS	Strong oxidizers and caustic soda.
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. Serious eye irritation. Temporary mild skin 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. Inhalation may cause mild respiratory tract irritation and an appropriate NIOSH respirator should be worn when necessary.
SKIN	May cause mild skin irritation.

EYES	Causes serious eye irritation.			
INGESTION	No information available.			
INHALATION TOXICITY	LC_{50} Rat, 4 hours	Propyl Acetate Polymers	32 mg/l Not established	
DERMAL TOXICITY	LD_{50} Rabbit	Propyl Acetate Polymers	17,800 mg/kg Not established	
SKIN IRRITATION	Draize, Rabbit, 24 hours	Propyl Acetate	No data available	No irritation
EYE IRRITATION	Human Draize, Rabbit, 24 hours	Propyl Acetate Propyl Acetate	No data available No data available	 Severe irritation
ORAL TOXICITY	LD_{50} Rat	Propyl Acetate Polymers	8,700 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	None known
TARGET ORGAN EFFECTS	Narcotic Effects (Inhalation)

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	Harmful to aquatic life.		
TOXICITY TO FISH	LC_{50} Pimephales promelas, 96 h	Propyl Acetate Polymers	60 mg/l Not established
TOXICITY TO DAPHNIA	EC_{50} Daphnia magna, 48 h	Propyl Acetate Polymers	91.5 mg/l Not established
TOXICITY TO ALGEA	EC_{50} Psuedokirchn. subc., 72 h	Propyl Acetate Polymers	672 mg/l Not established
PERSISTANCE AND DEGRADABILITY	Sewage, domestic, non-adapted, aerobic, 5 day	Propyl Acetate	62%
BIOACCUMULATIVE POTENTIAL	Log P_{ow}	Propyl Acetate	1.24
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 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	
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	
TCSI	Taiwan Chemical Substances List	
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.

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	October 14, 2022, *replaces the November 23, 2020 version*
REASON FOR REVISION	Updated information in Section 15.
SDS PREPARED BY	Glen Pearson
SDS APPROVED BY	Robert Auerbach