

**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® 102S
MFR.'S CODE ID/SYNONYMS	Lumicryl® 102S
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	Skin Corrosion/Irritation - Category 2 Eye Damage/Irritation - Category 2A Specific Target Organ Toxicity, Single Exposure (Central Nervous System) – Category 3	Hazardous to the Aquatic Environment, Acute Hazard – Category 3

**GHS Label**

<b>Symbols:</b> Flame  Exclamation Mark 	
<b>Hazard Statements</b> H225: Highly flammable liquid and vapour H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation H336: May cause drowsiness or dizziness H402: Harmful to aquatic life	<b>Precautionary Statements</b> <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. P264: Wash 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/protective clothing/eye protection/face protection. <i>Response</i> P302+352: IF ON SKIN: Wash with soap and water. P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

	<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>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 immediately all contaminated clothing and wash it before reuse.</p> <p>P370+378: In case of fire: Use foam, dry chemical powder, carbon dioxide or water fog to extinguish.</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**

<b>HAZARDOUS INGREDIENTS</b>	<b>CAS #</b>	<b>%</b>	<b>CLASSIFICATION</b>	<b>H CODES</b>
n-Propyl Acetate	109-60-4	51 – 53	Flammable Liquids – Category 2 Eye Damage/Irritation - Category 2A Specific Target Organ Toxicity, Single Exposure (Central Nervous System) – Category 3 Hazardous to the Aquatic Environment, Acute Hazard – Category 3	H225 H319 H336 H402
Methyl Ethyl Ketone	78-93-3	19 – 21	Flammable Liquids – Category 2 Skin Corrosion/Irritation - Category 2 Eye Damage/Irritation - Category 2A Specific Target Organ Toxicity, Single Exposure (Central Nervous System) – Category 3	H225 H315 H319 H335, H336

(See Section 8 for Exposure Limits)

<b>NON-HAZARDOUS INGREDIENTS</b>	<b>CAS #</b>	<b>%</b>
Acrylic Polymers	Proprietary	27 – 29

### **SECTION 4: FIRST-AID MEASURES**

#### SYMPTOMS OF EXPOSURE

ACUTE Drowsiness or dizziness. 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 respiratory irritation. May cause drowsiness or dizziness. 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 with soap and water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

EYE CONTACT Causes serious eye irritation. IF IN EYES: 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: 8.8 %, by volume of solvent.
HAZARDOUS COMBUSTION PRODUCTS	Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen and Sulfur.
EXTINGUISHING MEDIA	Dry Chemical, Water Fog, Foam, CO <sub>2</sub>
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	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	<p>Prevent 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.</p> <p>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. However, under certain conditions, such as cold temperatures, the viscosity may increase and this product may require heating to facilitate handling. To facilitate product transfer from original container, product may be heated to 40 °C/104 °F for not more than 24 hours. Do NOT use localized heat sources such as band heaters to heat/melt product. Do NOT use steam. Hot boxes or hot rooms are recommended for uniform heating/melting of material. The hot box or hot room should be set at a maximum temperature of 40 °C/104 °F. Do not overheat--this may compromise product quality and/or result in an uncontrolled polymerization. If product freezes, heat as indicated above and mix gently to redistribute the inhibitor. Product should be consumed in its entirety after heating/melting—DO NOT subject to multiple "re-heats" which may affect product quality or result in product degradation.</p>
CONDITIONS FOR SAFE STORAGE	<p>This material contains an inhibitor, MEHQ, which in the presence of air enhances shelf life stability. If stored under the recommended conditions (65-75 °F), the shelf life of this product is at least 6 months from receipt for optimum product performance</p> <p>Store in cool, dry, well-ventilated areas. Keep containers closed. Do not store near extreme heat, open flame or sources of ignition.</p>

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 25°C away from direct sunlight, ignition sources, and heat sources. Properly stored material can be expected to have a useful shelf life of at least 6 months. 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 containers at temperatures below 25 °C.

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.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

INGREDIENTS	CAS #	%	ACGIH TLV	OSHA PEL
Acrylic Polymers	Proprietary	27 – 29	<i>None established</i>	<i>None established</i>
n-Propyl Acetate	109-60-4	51 – 53	200 ppm	200 ppm
Methyl Ethyl Ketone	78-93-3	19 – 21	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 to Slightly Hazy Liquid	ODOR	Strong, aromatic
ODOR THRESHOLD	No test data available	pH	No test data available
MELTING POINT	No test data available	BOILING POINT/RANGE	80 °C (176 °F)
FLASH POINT	-3 °C (27 °F), closed cup	EVAPORATION RATE	3.8 (n-Butyl Acetate = 1)
FLAMMABILITY	Flammable Liquid Class IB, GHS Flammable Category 2		
FLAMMABLE LIMITS	LOWER 1.7 %, <i>by volume of solvent</i>	UPPER 8.8 %, <i>by volume of solvent</i>	
VAPOR PRESSURE	38.1 mmHg @ 20 °C	VAPOR DENSITY	No test data available
RELATIVE DENSITY	0.95 @ 25° C	SOLUBILITY IN H <sub>2</sub> O	<i>Solvent – Soluble Polymers - Nil</i>

PARTITION COEFFICIENT (n-octanol/water)	MEK log P <sub>ow</sub> = 0.29, Propyl Acetate log P <sub>ow</sub> = 1.23	AUTOIGNITION TEMPERATURE	515.6 °C (960 °F)
DECOMPOSITION TEMPERATURE	> 250 °C (Polymer)	VISCOSITY	25 – 50 cps
% VOLATILE	71 – 73%	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 drums of this product may build pressure during shipment or during storage after receipt (see Section 7 for more details regarding handling and storage).
CONDITIONS TO AVOID	Heat including sunlight on dark colored drums, open flame, prolonged light exposure, all ignition sources.
INCOMPATIBLE PRODUCTS	Strong oxidizers and caustic soda.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen and Sulfur.
POSSIBILITY OF HAZARDOUS REACTIONS	May occur under storage conditions other than those recommended. Vapours may form explosive mixture with air.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

SYMPTOMS OF EXPOSURE			
ACUTE	Drowsiness or dizziness. 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 respiratory irritation. May cause drowsiness or dizziness		
SKIN	Causes skin irritation.		
EYES	Causes serious eye irritation.		
INGESTION	May be harmful if swallowed – may enter lungs if swallowed or vomited.		
INHALATION TOXICITY	LC <sub>50</sub> Rat, 4 h	Propyl Acetate MEK Polymers	32 mg/l 320 mg/l Not established
DERMAL TOXICITY	LD <sub>50</sub> Rabbit	Propyl Acetate MEK Polymers	>17800 mg/kg 6,480 mg/kg Not established
SKIN IRRITATION	Draize, Rabbit, 24 hours	Propyl Acetate MEK Polymers	Not an irritant Mild Not established
EYE IRRITATION	Draize, Rabbit, 24 hours	Propyl Acetate MEK Polymers	Moderate Severe Not established
ORAL TOXICITY	LD <sub>50</sub> Rat	Propyl Acetate MEK Polymers	8,700 mg/kg 2,737 mg/kg Not established
SENSITIZATION	Draize, Rabbit	Propyl Acetate MEK Polymers	Not a sensitizer Not a sensitizer Not established

## 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	Central Nervous System (Inhalation)

## **SECTION 12: ECOLOGICAL INFORMATION**

ECOTOXICITY	Harmful to aquatic life.		
TOXICITY TO FISH	LC <sub>50</sub> Pimephales promelas, 96 h	Propyl Acetate MEK Polymers	60 mg/l 2,993 mg/l Not established
TOXICITY TO DAPHNIA	EC <sub>50</sub> Daphnia magna, 48 h	Propyl Acetate MEK Polymers	91.5 mg/l 308 mg/l Not established
TOXICITY TO ALGAE	EC <sub>50</sub> Pseudokirchneriella s., 72 h EC <sub>50</sub> Pseudokirchneriella s., 96 h	Propyl Acetate MEK Polymers	672 mg/l 2029 mg/l Not established
PERSISTENCE AND DEGRADABILITY	<i>Solvents</i> – Readily biodegradable. <i>Polymers</i> - No data available		
BIOACCUMULATIVE POTENTIAL	<i>MEK</i> – Log P <sub>ow</sub> = 2.49 <i>Propyl Acetate, Polymers</i> – 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.
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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

### **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":

AICS	Australian Inventory of Chemical Substances	X
DSL	Canadian Domestic Substances List	X
ECL	Korean Existing Chemicals List	
ELINCS	European List of Notified Chemical Substances	
ENCS	Japanese Existing and New Chemical Substances	
IECSC	Inventory of Existing Chemical Substances in China	X
ISRAEL	Proposed Israel Hazardous Substances List	
NDSL	Canadian Non-Domestic Substances List	
NZIoC	New Zealand Inventory of Chemicals	X
PICCS	Philippines Inventory of Chemicals and Chemical Substances	
SWISS	Giftelist 1 and Inventory of Notified New Substances	
TCSI	Taiwan Chemical Substances List	
TSCA	US Toxic Substances Control Act	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	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).
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#### 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 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.
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**MEK** (78-93-3): 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).
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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.
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OTHER FEDERAL	None known
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### 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.
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CALIFORNIA PROP 65	This product may contain trace quantities of a substance or substances known to the state of California to cause cancer and/or reproductive toxicity.
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## **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** January 21, 2019, *replaces the September 4, 2018 version*

**REASON FOR REVISION** Updated the viscosity data in Section 9.

**SDS PREPARED BY** Glen Pearson

**SDS APPROVED BY** Robert Auerbach