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 245
MFR.’S CODE ID/SYNONYMS Lumicryl 245, CM02-045
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

<table>
<thead>
<tr>
<th>GHS Classification</th>
<th>Health</th>
<th>Environmental</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable Liquid – Category 2</td>
<td>Eye Damage/Irritation - Category 2A</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Specific Target Organ Toxicity – Single Exposure - Category 3</td>
<td></td>
</tr>
</tbody>
</table>

GHS Label

<table>
<thead>
<tr>
<th>Symbols: Flame</th>
<th>Exclamation Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Statements</td>
<td>Precautionary Statements</td>
</tr>
<tr>
<td>H225: Highly flammable liquid and vapour</td>
<td>Prevention</td>
</tr>
<tr>
<td>H319: Causes serious eye irritation</td>
<td>P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.</td>
</tr>
<tr>
<td>H336: May cause drowsiness or dizziness</td>
<td>P233: Keep container tightly closed.</td>
</tr>
</tbody>
</table>

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.
HAZARDS NOT OTHERWISE CLASSIFIED: None identified.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS</th>
<th>CAS #</th>
<th>%</th>
<th>CLASSIFICATION</th>
<th>H CODES</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propyl Acetate</td>
<td>109-60-4</td>
<td>65 – 75</td>
<td>Flammable Liquid – Category 2</td>
<td>H225, H319, H336</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irritation – Category 2A</td>
<td></td>
</tr>
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<td></td>
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<td></td>
<td>Specific Target Organ Toxicity – Single Exposure -</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Category 3</td>
<td></td>
</tr>
</tbody>
</table>

(See Section 8 for Exposure Limits)

<table>
<thead>
<tr>
<th>NON-HAZARDOUS INGREDIENTS</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic Polymers</td>
<td>Proprietary</td>
<td>25 – 35</td>
</tr>
</tbody>
</table>

### SECTION 4: FIRST-AID MEASURES

#### SYMPTOMS OF EXPOSURE

**ACUTE**
Drowsiness or dizziness. Serious eye irritation. Temporary mild skin irritation. Nausea.

**DELAYED**

**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**
Causes 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 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, CO₂, 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. 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.

**CONDITIONS FOR SAFE STORAGE**
Store in cool, dry, well-ventilated areas. Keep containers closed. Do not store near extreme heat, open flame or sources of ignition. 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 6 months from the ship date, if unopened. 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.

Keep away from strong oxidizers and caustic soda.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>%</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic Polymers</td>
<td>Proprietary</td>
<td>25 – 35</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>n-Propyl Acetate</td>
<td>109-60-4</td>
<td>65 – 75</td>
<td>200 ppm</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

APPROPRIATE ENGINEERING CONTROLS
Shower, eyewash stations and explosion-proof ventilation systems.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE
Chemical splash goggles or face shield.

SKIN
Wear resistant gloves (consult your 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

MELTING POINT
No test data available

FLASH POINT
57 °F (14°C) closed cup

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

RELATIVE DENSITY
0.95 – 1.0 @ 20 °C

PARTITION COEFFICIENT
n-octanol/water

TEMPERATURE
> 170 °C (Polymer)

% VOLATILE
65 – 75%

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.

INCOMPATIBLE 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
- Causes mild skin irritation.

EYES
- Causes eye irritation.

INGESTION
- No information available.

INHALATION TOXICITY
- LC$_{50}$ Rat, 4 hours: Propyl Acetate 32 mg/l
- Polymers: Not established

DERMAL TOXICITY
- LD$_{50}$ Rabbit: Propyl Acetate 17,800 mg/kg
- Polymers: Not established

SKIN IRRITATION
- Draize, Rabbit, 24 hours: Propyl Acetate No data available
- No irritation

EYE IRRITATION
- Human: Propyl Acetate No data available
- Draize, Rabbit, 24 hours: Propyl Acetate No data available
- Severe irritation

ORAL TOXICITY
- LD$_{50}$ Rat: Propyl Acetate 8,700 mg/kg
- Polymers: 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 60 mg/l
- Polymers: Not established

TOXICITY TO DAPHNIA
- EC$_{50}$ Daphnia magna, 48 h: Propyl Acetate 91.5 mg/l
- Polymers: Not established

TOXICITY TO ALGAE
- EC$_{50}$ Psuedokirch. subc., 72 h: Propyl Acetate 672 mg/l
- Polymers: 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 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”:

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>AICS</td>
<td>X</td>
</tr>
<tr>
<td>DSL</td>
<td>X</td>
</tr>
<tr>
<td>ECL</td>
<td></td>
</tr>
<tr>
<td>ELINCS</td>
<td>X</td>
</tr>
<tr>
<td>ENCS</td>
<td></td>
</tr>
<tr>
<td>IECSC</td>
<td></td>
</tr>
<tr>
<td>ISRAEL</td>
<td></td>
</tr>
<tr>
<td>NDSL</td>
<td></td>
</tr>
<tr>
<td>NZIoC</td>
<td>X</td>
</tr>
<tr>
<td>PICCS</td>
<td></td>
</tr>
<tr>
<td>SWISS</td>
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<tr>
<td>TCSI</td>
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<tr>
<td>TSCA</td>
<td>X</td>
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<td>SWISS</td>
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<tr>
<td>TCSI</td>
<td></td>
</tr>
<tr>
<td>TSCA</td>
<td>X</td>
</tr>
</tbody>
</table>

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
One or more components of this product are not REACH registered. Import quantities may be subject to limitation.

C.D. 96/82/EC
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

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Pressure Hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Reactivity Hazard</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

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 This product may contain trace quantities of a substance 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 June 12, 2019, replaces May 13, 2019 version.

REASON FOR REVISION Corrected the REACH statement in Section 15.

SDS PREPARED BY Glen Pearson

SDS APPROVED BY Robert Auerbach