

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	Resiflow® L-68
MFR. 'S CODE ID/SYNONYMS	Resiflow® L-68
CAS NUMBER	Mixture (see Sections 3 or 8)
PRODUCT USE	Flow control agent for liquid 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 3	Acute Toxicity (Dermal, Inhalation) – Category 4 Skin Corrosion/Irritation – Category 2 Eye Damage/Irritation – Category 2A Carcinogenicity – Category 2 Toxic to Reproduction – Category 1B Specific Target Organ Toxicity, Single Exposure (Respiratory System) – Category 3 Specific Target Organ Toxicity, Repeated Exposure (Liver, Kidney, Central Nervous System) – Category 2	Hazardous to the Aquatic Environment, Acute Hazard – Category 2 Hazardous to the Aquatic Environment, Chronic Hazard – Category 2

GHS Label

<p>Symbols: Flame  Health Hazard  Exclamation Mark  Environment </p>	<p>Hazard Statements H226: Flammable liquid and vapour H312: Harmful in contact with skin H315: Causes skin irritation H319: Causes serious eye irritation H332: Harmful if inhaled H335: May cause respiratory irritation H351: Suspected of causing cancer H360: May damage fertility or the unborn child. H373: May cause damage to organs (Liver, Kidney, Central Nervous System) through prolonged or repeated exposure H411: Toxic to aquatic life with long lasting effects</p>	<p>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. 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>
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	<p><i>Response</i></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: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</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>P312: Call a POISON CENTER or doctor/physician if you feel unwell.</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
Xylene	1330-20-7	40.0 - 41.0	Flammable Liquids – Category 3 Acute Toxicity (Dermal, Inhalation) – Category 4 Skin Corrosion/Irritation – Category 2 Eye Damage/Irritation – Category 2A Carcinogenicity – Category 2 Toxic to Reproduction – Category 1B Specific Target Organ Toxicity, Single Exposure (Respiratory System) – Category 3 Specific Target Organ Toxicity, Repeated Exposure (Liver, Kidney, Central Nervous System) – Category 2 Aspiration Hazard – Category 1 Hazardous to the Aquatic Environment, Acute Hazard – Category 2 Hazardous to the Aquatic Environment, Chronic Hazard – Category 2	H226 H312, H332 H315 H319 H351 H360 H335 H373 H304 H401 H411

Component Breakdown of Xylene:

<i>Mixed Xylenes</i>	1330-20-7	28.0 - 41.0	<i>Flammable Liquids – Category 3</i> <i>Acute Toxicity (Dermal, Inhalation) – Category 4</i> <i>Skin Irritation – Category 2</i> <i>Eye Irritation – Category 2A</i> <i>Specific Target Organ Toxicity, Single Exposure (Respiratory System) – Category 3</i> <i>Specific Target Organ Toxicity, Repeated Exposure (Liver, Kidney, Central Nervous System) – Category 2</i> <i>Aspiration Hazard – Category 1</i> <i>Hazardous to the Aquatic Environment, Acute Hazard – Category 2</i> <i>Hazardous to the Aquatic Environment, Chronic Hazard – Category 2</i>
<i>Ethylbenzene</i>	100-41-4	0.0 – 20.5	<i>Flammable Liquids – Category 3</i> <i>Acute Toxicity (Inhalation) – Category 4</i> <i>Specific Target Organ Toxicity, Single Exposure (Respiratory Tract Irritation, Narcotic Effects) – Category 3</i> <i>Eye Irritation – Category 2B</i> <i>Skin Corrosion/Irritation – Category 2</i> <i>Carcinogenicity (Inhalation) – Category 2</i> <i>Hazardous to the Aquatic Environment, Acute Hazard – Category 2</i>
<i>Toluene</i>	108-88-3	0.0 – 2.1	<i>Flammable Liquids – Category 3</i> <i>Acute Toxicity (Inhalation) – Category 4</i> <i>Specific Target Organ Toxicity, Single Exposure (Respiratory Tract Irritation, Narcotic Effects) – Category 3</i> <i>Skin Corrosion/Irritation – Category 2</i>
<i>Cumene</i>	98-82-8	0.0 - 0.4	<i>Flammable Liquids – Category 3</i> <i>Carcinogenicity – Category 2</i> <i>Acute Toxicity (Inhalation) – Category 3</i> <i>Acute Toxicity (Oral) – Category 4</i> <i>Specific Target Organ Toxicity, Single Exposure (Respiratory System) – Category 3</i> <i>Aspiration Hazard – Category 1</i> <i>Hazardous to the Aquatic Environment, Acute Hazard – Category 2</i> <i>Hazardous to the Aquatic Environment, Chronic Hazard – Category 2</i>

(See Section 8 for Exposure Limits)

NON-HAZARDOUS INGREDIENTS	CAS #	%
Acrylic Polymer	Proprietary	59.0 - 60.0

SECTION 4: FIRST-AID MEASURES

SYMPTOMS OF EXPOSURE

ACUTE	Eye, skin or respiratory tract 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	Harmful if inhaled. May cause respiratory irritation. 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	Harmful in contact with skin. 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	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: 1.0 %, 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 .
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. 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 three 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 Polymer	Proprietary	59.0 - 60.0	<i>None established</i>	<i>None established</i>
Xylene	1330-20-7	28.0 - 41.0	100 ppm	100 ppm
Ethylbenzene	100-41-4	0.0 - 20.5	100 ppm	100 ppm
Toluene	108-88-3	0.0 - 2.1	50 ppm (Skin)	150 ppm
Cumene	98-82-8	0.0 - 0.4	50 ppm	50 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	136 °C @ 760 mmHg
FLASH POINT	26 °C, (79 °F)	EVAPORATION RATE	0.8 (BuAc = 1)
FLAMMABILITY	Flammable Liquid Class IC		
FLAMMABLE LIMITS	LOWER 1.0 %, <i>by volume of solvent</i>	UPPER 7.0 %, <i>by volume of solvent</i>	
VAPOR PRESSURE	9 mmHg @ 20 °C	VAPOR DENSITY	3.7 (Air = 1)
RELATIVE DENSITY	No test data available	SOLUBILITY IN H ₂ O	<i>Solvent</i> – Negligible <i>Polymers</i> - Nil
PARTITION COEFFICIENT (n-octanol/water)	<i>Solvent</i> – Log P _{ow} = 3.16 <i>Polymers</i> – No data available	AUTOIGNITION TEMPERATURE	432 °C
DECOMPOSITION TEMPERATURE	No test data available	VISCOSITY	No test data available
% VOLATILE	40 - 41%	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, acids, alkalis and amines.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Dioxide, Carbon Monoxide.
POSSIBILITY OF HAZARDOUS REACTIONS	Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

SYMPTOMS OF EXPOSURE			
ACUTE	Eye, skin or respiratory tract 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	Harmful if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause drowsiness or dizziness.		
SKIN	Harmful in contact with skin. Causes skin irritation.		
EYES	Causes serious eye irritation.		
INGESTION	Not likely to have harmful effects in normal exposures, may cause nausea or gastric distress if ingested in quantity.		
INHALATION TOXICITY	LC ₅₀ Rat, 4 h	Xylene Toluene Polymers	6700 ppm, causes irritation. 8000 mg/L Not established
DERMAL TOXICITY	LD ₅₀ Rabbit	Xylene Ethylbenzene Polymers	1,100 mg/kg > 5,000 mg/kg Not established

SKIN IRRITATION	Draize, Rabbit, 24 hours	Xylene	500 mg	Moderate, causes skin irritation
EYE IRRITATION	Draize, Rabbit, 24 hours	Xylene Ethylbenzene	87 mg 500 mg	Severe, causes eye irritation Moderate, causes eye irritation
ORAL TOXICITY	LD ₅₀ Rat	Xylene Ethylbenzene Toluene Polymers	3,523 mg/kg 5,460 mg/kg 2,600 mg/kg Not established	
SENSITIZATION	Draize, Rabbit			Not established
CHRONIC EFFECTS				
CARCINOGENICITY	Solvent components are suspected of causing cancer. Ethylbenzene IARC Classified 2B (Possible for Humans), ACGIH A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)			
MUTAGENIC EFFECTS	Ethylbenzene – Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.			
REPRODUCTIVE TOXICITY	Xylene shows clear evidence of adverse effects on sexual function and fertility, based on animal experiments.			
TARGET ORGAN EFFECTS	Respiratory Tract Irritation, Liver, Kidney, Central Nervous System.			

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	Toxic to aquatic life with long lasting effects.			
TOXICITY TO FISH	LC ₅₀ Oncorhynchus mykiss, 96 h	Xylene Ethylbenzene Polymers	2.6 mg/l 4.2 mg/l Not established	
TOXICITY TO DAPHNIA	EC ₅₀ Daphnia magna	Xylene Ethylbenzene Polymers	1 mg/l, 24 h 1.8 mg/l, 48 h Not established	
TOXICITY TO ALGAE	EC ₅₀ Psuedokirchneriella Subcapitata, 72 h	Xylene Ethylbenzene Polymers	4.36 mg/l 5.4 mg/l Not established	
PERSISTANCE AND DEGRADABILITY	Inoculum, activated sludge	Xylene Ethylbenzene	72%, 20 d, Readily biodegradable 70%, 28 d, Readily biodegradable	
BIOACCUMULATIVE POTENTIAL	Partition coefficient (log K _{ow})	Xylene Ethylbenzene	2.92 3.15	
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. Destroy by incineration with off-gas scrubber. Do not discharge effluent containing this product into lakes, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact you State Water Board or Regional Office of the Environmental Protection Agency.
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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

For ground transportation ONLY:

Proper Shipping Name: Resin solution, *flammable (mixed xylenes)*.

Classification: 3

UN#: 1866

Packing Group: III

Hazard Label: Flammable liquid

Note: Not a Marine Pollutant, by D.O.T. standards

ICAO / IATA

Proper Shipping Name: Resin solution, *flammable (mixed xylenes)*.

Classification: 3

UN#: 1866

Packing Group: III

Hazard Label: Flammable liquid

All other transport:

Proper Shipping Name: Resin solution, *flammable (mixed xylenes)*.

Classification: 3

UN#: 1866

Packing Group: III

Hazard Label: Flammable liquid, Marine Pollutant

IMDG

Proper Shipping Name: Resin solution, *flammable (mixed xylenes)*.

Classification: 3

UN#: 1866

Packing Group: III

EmS#: F-E, S-E

Environmental Hazard: Marine Pollutant

Hazard Label: Flammable liquid, Marine Pollutant

ADR/RID

Proper Shipping Name: Resin solution, *flammable (mixed xylenes)*.

Classification: 3

UN#: 1866

Packing Group: III

Environmental Hazard: Marine Pollutant

Hazard Label: Flammable liquid, Marine Pollutant

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	
ECL	Korean Existing Chemicals List	
ENCS	Japanese Existing and New Chemical Substances	
IECSC	Inventory of Existing Chemical Substances in China	
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	

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.

FEDERAL REGULATIONS

SARA 313 This product may contain chemicals (xylene, ethylbenzene, toluene) 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	Yes
Fire Hazard	Yes
Pressure Hazard	No
Reactivity Hazard	No

CERCLA This product, as supplied, contains substances (xylene, ethylbenzene, toluene) 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 contains substances (xylene, ethylbenzene, toluene) regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CLEAN AIR ACT This product contains substances (xylene, ethylbenzene, toluene, cumene) 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 **CALIFORNIA PROPOSITION 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):**
WARNING! This product contains a chemical(s) known to the State of California to cause cancer.

<u>Component</u>	<u>CAS #</u>	<u>Amount</u>
Xylene	1330-20-7	28.0 - 41.0 %
Ethylbenzene	100-41-4	0.0 – 20.5 %
Toluene	108-88-3	0.0 – 2.1 %
Cumene	98-82-8	0.0 – 0.4 %
Benzene	71-43-2	Trace

CALIFORNIA PROPOSITION 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):
WARNING! This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

<u>Component</u>	<u>CAS #</u>	<u>Amount</u>
Toluene	108-88-3	0.0 – 2.1 %
Benzene	71-43-2	Trace

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 September 13, 2024, *replaces the June 27, 2024 version.*

REASON FOR REVISION Updated information on composition levels based on the latest supplier information.

SDS PREPARED BY Glen Pearson

SDS APPROVED BY Robert Auerbach