

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-65F-50 BA
MFR.'S CODE ID/SYNONYMS	Resiflow [®] L-65F-50 BA
CAS NUMBER	Mixture (see Sections 3 or 8)
PRODUCT USE	Acrylic Polymer Solution
RESTRICTIONS ON USE	None
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*
GHS Classification

Physical	Health	Environmental
Flammable Liquids – Category 3	Specific Target Organ Toxicity, Single Exposure (Central Nervous System) – Category 3	Hazardous to the Aquatic Environment, Acute Hazard – Category 3

GHS Label

Symbols: Flame  Exclamation Mark 	
Hazard Statements H226: Flammable liquid and vapour H336: May cause drowsiness or dizziness H402: Harmful to aquatic life	Precautionary Statements <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. 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> P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. P370+378: In case of fire: Use foam, dry chemical powder, carbon dioxide or water fog to extinguish.

	<p><i>Storage</i> P403+233+235: Store in a well ventilated place. Keep container tightly closed. Keep cool. P405: Store locked up.</p> <p><i>Disposal</i> 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

INGREDIENTS	CAS #	%	CLASSIFICATION
Acrylic Polymer	Proprietary	49 - 51	None identified
n-Butyl Acetate	123-86-4	49 - 51	Flammable Liquids – Category 3 Specific Target Organ Toxicity, Single Exposure (Central Nervous System) – Category 3 Hazardous to the Aquatic Environment, Acute Hazard – Category 3

(See Section 8 for Exposure Limits)

SECTION 4: FIRST-AID MEASURES

SYMPTOMS OF EXPOSURE

ACUTE Drowsiness or dizziness. Temporary mild skin or eye irritation. Nausea.
DELATED Stinging, tearing, redness and swelling of the eyes. Redness or burning of the skin. Headache. Nausea. Unconsciousness.

INHALATION 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 Mildly irritating to the skin. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash thoroughly with soap and water. If skin irritation persists consult a doctor.

EYE CONTACT Mildly irritating to the eyes. Wash with plenty of water for 15 minutes. Consult a physician.

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 GHS - Flammable Liquid Category 3
U.S. - Flammable Liquid Class IC

FLAMMABLE LIMITS LEL: 1.7 %, by volume of solvent.
UEL: 7.6 %, 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.

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.
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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS	CAS #	%	ACGIH TLV	OSHA PEL
Acrylic Polymer	Proprietary	49 - 51	<i>None established</i>	<i>None established</i>
n-Butyl Acetate	123-86-4	49 - 51	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	124 °C @ 760 mmHg
FLASH POINT	TCC, 77°F (26°C)	EVAPORATION RATE	1 (n-Butyl Acetate)
FLAMMABILITY	Flammable Liquid Class IC		
FLAMMABLE LIMITS	LOWER 1.7 %, <i>by volume of solvent</i>	UPPER 7.6 %, <i>by volume of solvent</i>	
VAPOR PRESSURE	8.4 mmHg @ 20 °C	VAPOR DENSITY	4 (Air = 1)
RELATIVE DENSITY	No test data available	SOLUBILITY IN H ₂ O	<i>Solvent</i> – 0.68% @ 20 °C <i>Polymers</i> - Nil
PARTITION COEFFICIENT (n-octanol/water)	No test data available	AUTOIGNITION TEMPERATURE	407 °C (762 °F)
DECOMPOSITION TEMPERATURE	> 250 °C (Polymer)	VISCOSITY	No test data available
% VOLATILE	49 – 51%	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 for more details regarding handling and storage).
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	Drowsiness or dizziness. Temporary mild 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	Harmful if inhaled. May cause drowsiness or dizziness.			
SKIN	Mildly irritating to the skin.			
EYES	Mildly irritating to the eyes.			
INGESTION	Harmful if swallowed – may enter lungs if swallowed or vomited.			
INHALATION TOXICITY	LC ₅₀ Rat	Butyl Acetate Polymers	390 mg/l, 4 h. Not established	
DERMAL TOXICITY	LD ₅₀ Rabbit	Butyl Acetate Polymers	>17600 mg/kg Not established	
SKIN IRRITATION	Draize, Rabbit, 24 hours	Butyl Acetate	500 mg/m ³	Moderate
EYE IRRITATION	Human Draize, Rabbit, 24 hours	Butyl Acetate Butyl Acetate	300 ppm 100 mg	Moderate Moderate
ORAL TOXICITY	LD ₅₀ Rat	Butyl Acetate Polymers	>10000 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	Butyl Acetate Polymers	18 mg/l Not established	
TOXICITY TO DAPHNIA	EC ₅₀ Daphnia magna, 48 h	Butyl Acetate Polymers	44 mg/l Not established	

TOXICITY TO ALGAE	EC ₅₀ Desmodosmus subsp., 72 h	Butyl Acetate Polymers	675 mg/l Not established
PERSISTANCE AND DEGRADABILITY	No data available		
BIOACCUMULATIVE POTENTIAL	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.

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: III
 Hazard Label: Flammable Liquid

ICAO / IATA

Proper Shipping Name: Resin Solution, *flammable*
 Classification: 3
 UN#: 1866
 Packing Group: III
 Hazard Label: Flammable Liquid

IMDG

Proper Shipping Name: Resin Solution, *flammable*
 Classification: 3
 UN#: 1866
 Packing Group: III
 EmS#: F-E, S-E
 Hazard Label: Flammable Liquid

ADR/RID

Proper Shipping Name: Resin Solution, *flammable*
 Classification: 3
 UN#: 1866
 Packing Group: III
 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	X
ECN	Taiwan Chemical Substances List	X
ELINCS	European List of Notified Chemical Substances	
ENCS	Japanese Existing and New Chemical Substances	X
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	
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	All components of this product are REACH pre-registered.
EINECS	All of the components of this product are included on the European Inventory of Existing Commercial Chemical Substances.

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, 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.

n-Butyl Acetate (123-86-4): 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).

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 does not contain any substances 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 January 4, 2016, *replaces the November 19, 2014 version.*

REASON FOR REVISION Revised to Arabic numerals from Roman numerals for Section numbering. Added Restrictions on Use to Section 1. Added Specific Treatment to Section 4. Added Protective Equipment and Emergency Procedures to Section 6. Revised Appearance specification in Section 9. Added Reactivity to Section 10. Added US EPA Waste Number & Description to section 13. Updated the Transport information in Section 14.

SDS PREPARED BY Glen Pearson

SDS APPROVED BY Robert Auerbach