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Chem-Set™ 633LV  
Part A & B

Revision No.: 4  
Revision Date: 03/20/2020

## Section 1 IDENTIFICATION

**Product Name: Chem-Set™ 633LV Part A RESIN**

**Manufacturer: Chemical Concepts, Inc.**

410 Pike Road  
Huntingdon Valley, PA. 19006  
Phone: 800.220.1966  
Email: sales@chemical-concepts.com Website: www.chemical-concepts.com  
Information department: Environment protection department.

**In Case of Emergency Contact INFOTRAC: 800.535.1035**

Telephone Number: Toll Free: 800.220.1966 Office: 267.684.1038 Fax: 215.357.2754

**Materials Uses: Epoxy RESIN used with an Epoxy Hardener (Part B) to Bond Various Substrates.**

## Section 2 HAZARD IDENTIFICATION

### GHS Classification:

CATEGORY	SIGNAL WORD	HAZARD STATEMENT(S)
Health Skin Corrosion/Irritation, Category 2 Eye Irritation, Category 2A Skin Sensitization, Category 1 STOT SE, Category 3	WARNING WARNING WARNING WARNING	H315 – Causes skin irritation H319 – Causes serious eye irritation H317 – May cause an allergic skin reaction H335 – May cause respiratory irritation



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### GHS Precaution Statements:

#### Prevention:

- P261 – Avoid breathing dust/fume/mist/vapors/spray.
- P264 – Wash hands (or other affected skin surfaces) thoroughly after handling.
- P270 – Do not eat, drink, or smoke when using this product.
- P273 – Avoid release to the environment
- P280 – Wear protective gloves/protective clothing/eye protection/face protection.

#### Response:

- P305/P351/P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P301/P312 – IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P302/P352 – IF ON SKIN: Wash with plenty of soap and water.

P333/P313 – If skin irritation or rash occurs get medical advice/attention.

**Storage:**

P403 – Store in a well-ventilated place.

P410 – Protect from sunlight.

P411 – Store at temperatures not exceeding 25°C (75°F).

**Disposal:**

P501 – Dispose of contents/containers in accordance with local/regional/national/international regulations.

**Route of Entry:** Eye contact, skin contact, inhalation, and ingestion.

**Target Organs:** Skin, eyes, respiratory tract, digestive tract, liver, kidney, olfactory and Central Nervous System (CNS).

**Skin Contact:** May cause irritation of the skin. Prolonged exposure may cause sensitization. Preexisting skin conditions may be aggravated by exposure to this material.

**Eye Contact:** May cause irritation and/or sensitization.

**Respiratory Contact:** Respiratory tract irritant. Prolonged exposure may result in dizziness, nausea, headache, and anesthetic effects. May cause sensitization. Preexisting respiratory conditions may be aggravated by exposure to this product. May cause CNS depression.

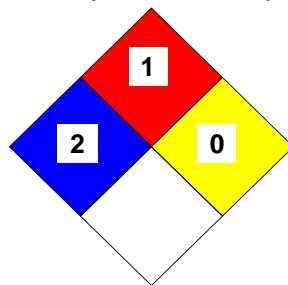
**Ingestion:** Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that the stomach vomit doesn't enter the lungs.

**Part A RESIN:**

**HMIS (United States)**

Health 2  
Flammability 1  
Reactivity 0  
PPE X

**NFPA (United States)**



**WHMIS (Canada): B2, C, D2B**



**Section 3 COMPOSITION / INFORMATION ON INGREDIENTS**

**Name:** Mixtures, Adhesives  
Bisphenol A Epoxy Resin  
Non-hazardous Ingredients

CAS #	% by Weight
25068-38-6	80 – 100%
Not Applicable	< 10%

**Section 4 FIRST-AID MEASURES**

**Skin:** Remove contaminated clothing. Flush skin with water, then wash affected areas with soap and water. If irritation develops, seek medical attention. Wash or dispose of clothing before reuse.

**Eye:** Flush eyes with water for 15 minutes. Remove contact lenses prior to water flush if possible. Seek immediate medical attention.

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**Respiratory:** Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Immediately get medical assistance.

**Ingestion:** Give patient water to dilute material in stomach. DO NOT induce vomiting. Seek immediate medical attention. If vomiting occurs naturally, have person lean forward to reduce risk of aspiration. DO NOT give anything by mouth to an unconscious person.

#### Section 5 FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** In case of fire, water spray, fog, dry chemical or CO<sub>2</sub>, or alcohol resistant foam.

**Specific Hazards Arising from the Chemical:** Fire may produce irritating, corrosive and/or toxic gases.

**Hazardous Thermal:** Decomposition products may include the following materials: Carbon dioxide, carbon monoxide, halogenated compounds.

**Special Protective Equipment and Precautions for Firefighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, and rubber boots. In enclosed spaces, use self-contained breathing apparatus (SCBA) and protective clothing.

**Flammability Classification:** Combustible, Class IIIB estimated.

**Risk of Explosion due to Mechanical Impact:** Not Applicable.

**Risk of Explosion due to Static Discharge:** Not Applicable.

**Autoignition Temp.:** Not Available

**LEL:** Not Available

**UEL:** Not Available

#### Section 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Keep unnecessary personnel away. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Eliminate all sources of ignition. For large spill or leak wear self-contained breathing apparatus (SCBA) and appropriate PPE.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid releases to the environment. Retain and dispose of contaminated was water. Keep out of sewers and drains. Contact local authorities if case of spillage to drain/aquatic environment.

**Clean-Up Methods and Materials:** Absorb with an inert material and place in an appropriate container for disposal.

#### Section 7 HANDLING AND STORAGE

**Handling Precautions:** Avoid breathing vapors. Use in a well-ventilated area. Wear rubber gloves (nitrile or butyl) and chemical resistant apron. Wear chemical splash goggles. Do not reuse empty containers.

**Storage Precautions:** Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well ventilated area.

#### Section 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control Parameters and Exposures:**

**Material Name:**

Bisphenol A Epoxy Resin (CAS: 25068-38-6)

**Exposure Limits:**

None

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**Engineering Controls:** Provide adequate ventilation (general or local exhaust). Ensure that a working eyewash and safety shower are in the work area.

**Individual Protection Measures and PPE:**

**Eye / Face Protection:** Wear safety glasses with side shields or splash goggles.

**Skin Protection:** Chemical resistant gloves (nitrile or butyl) and chemical resistant apron are recommended.

**Respiratory Protection** In case of insufficient ventilation, wear an approved (NIOSH) respirator with organic vapor cartridge and dust/mist pre-filter.

**Thermal Hazards:** None.

**Section 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Part A RESIN**

<b>Appearance:</b>	Viscous Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	Not Available
<b>Odor Threshold:</b>	Not Available
<b>pH:</b>	Not Available
<b>Melting Point / Freezing Point:</b>	Not Available
<b>Initial Boiling Point:</b>	260°C (500°F)
<b>Flash Point and Method:</b>	Pensky-Martens Closed Cup: 251°C (>484°F) (ASTM D 93)
<b>Flammability:</b>	Not Available
<b>Lower Explosion Limit:</b>	Not Available
<b>Upper Explosion Limit:</b>	Not Available
<b>Vapor Pressure:</b>	.03 mm Hg @ 77°C (171°F)
<b>Vapor Density:</b>	Not Available
<b>Relative Density:</b>	1.17 (9.7 lbs./gallon)
<b>Solubility in Water:</b>	Negligible
<b>Partition Coefficient (n-Octanol in Water):</b>	Not Available
<b>Auto-Ignition Temperature:</b>	Not Available
<b>Decomposition Temperature:</b>	Not Available
<b>Viscosity (Dynamic CPS/mPa-s):</b>	8,000 to 10,000 CPS
<b>Percent Volatile:</b>	Not Available
<b>Specific Gravity:</b>	1.17

**Section 10 STABILITY AND REACTIVITY**

**Reactivity:** Product is stable under normal conditions.

**Chemical Stability:** The product is stable.

**Possibility of Hazardous Reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to Avoid:** Avoid exposure – obtain special instructions before use. Avoid all possible sources of ignition (spark or flame).

**Materials to Avoid (Incompatibility):** strong oxidizing materials, strong acids, strong alkalis.

**Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Other hazards:** Reacts with considerable heat release with some curing agents.

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## Section 11 TOXICOLOGICAL INFORMATION

### Acute Toxicity to Animals:

Bisphenol A Epoxy Resin (CAS: 25068-38-6)

LD50 = 11,400 mg/kg (oral, rat)

LD50 = 2,000 mg/kg (dermal, rat)

Conclusion/Summary:

Not Available

**Acute Toxicity to Humans:** This product has not been tested for human effects. No additional information.

**Chronic Toxicity to Animals:** This product has not been tested for animal effects. No additional information.

**Chronic Toxicity to Humans:** This product has not been tested for human effects. No additional information.

### Irritation/Corrosion:

Product/ingredient name	Result	Species	Score	Exposure	Observation
Bisphenol A Epoxy Resin (CAS: 25068-38-6)	Skin – Erythema/Eschar 404 Acute Dermal Irritation/Corrosion	Rabbit	1.5 – 2		
	Skin – Edema 404 Acute Dermal Irritation/Corrosion	Rabbit	1.0 – 1.5		
	Eyes – 405 Acute Eye Irritation/Corrosion	Rabbit	0		
	Eyes – Redness of the Conjunctivae	Rabbit	0.7		
	Skin – Moderate Irritation	Rabbit		24 hours	
	Skin – Severe Irritant	Rabbit		24 hours	
	Eyes – Mild Irritant	Rabbit			

**Eye Damage / Irritation:** Not Available.

**Respiratory Sensitization:** Not Available.

**Skin Sensitization:** Not Available.

**Ingestion:** Not Available.

**Mutagenicity:** Not Available.

**Carcinogenicity:** Not Available.

**Reproductive Toxicity:** Not Available.

**Teratogenic Effects:** Not Available.

### STOST- Single Exposure:

Product/ingredient name	Category	Route of Exposure	Target Organ
Bisphenol A Epoxy Resin (CAS 25068-38-6)	Category 3		

**STOST – Repeated Exposure:** Not Available.

**Aspiration Hazard:** Not Available

## Section 12 ECOLOGICAL INFORMATION

**Ecotoxicity:** This product contains components that may be toxic to aquatic organisms and may cause long term adverse effects in an aquatic environment.

Product/ingredient name	Result	Species	Exposure
Bisphenol A Epoxy Resin (CAS 25068-38-6)	Acute LC50 1.3 mg/l - 203 Fish, Acute Toxicity Test	Fish - Fish	96 hour
	Acute EC50 2.1 mg/l - 202 Daphnia sp. Acute Immobilization Test and Reproductive Test	Aquatic invertebrates. Water Flea	48 hour

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	Acute No-observable-effect-concentration 0.3 mg/l – 211 Daphnia Magna Reproduction Test	Aquatic invertebrates. Water Flea	21 day
	Acute LC50 > 11 mg/l	Aquatic plants - Algae	72 hour

**Persistence and Degradability:** Not Available.

**Bioaccumulative Potential:**

Product/ingredient name	LogPow	BCF	Potential
Bisphenol A Epoxy Resin (CAS 26068-38-6)	2.64 – 3.78	3 – 31 31.00	Low

**Mobility in Soil:** Not Available.

**Other Adverse Effects:** No known significant effects or critical hazards.

### Section 13 DISPOSAL CONSIDERATIONS

#### Disposal Methods:

**Part A RESIN:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recycle-able products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14 TRANSPORT INFORMATION

**CFR:** Not Regulated

**TDG:** Not Regulated

**DOT Classification:** Not Regulated

**IATA:**

**IMO:**

**Marine Pollutant:** YES

### Section 15 REGULATORY INFORMATION

#### U.S. Federal Regulations

**United States – TSCA 12(b) – Chemical export notification:** None required.

**United States – TSCA 5(a)2 – Final significant new use rules:** Not listed.

**United States – TSCA 5(a)2 – Proposed significant new use rules:** Not listed.

**United States – TSCA 5(e) – Substances consent order:** Not listed.

**SARA 311/312 Chemical:** Yes

**Classification Hazard Categories:** Immediate (acute) health hazard

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SARA 313 (TRI reporting) Not regulated.  
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List: Not regulated.  
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.  
Safe Drinking Water Act (SDWA): Not regulated.

**State Regulations**

**California Proposition 65:** **WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer. **WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient Name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Oxirane, 2-(phenoxyethyl)-	Yes	No	5 µg/day	No
Phenol, 4,4'-(1-methylethylidene)bis-	No	Yes	No	No

**TSCA (Toxic Substances Control Act):** All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory Requirements.

**International Regulations:**

**DSL (Canada Domestic Substance List):** All components of this product are on the DSL (Canada Domestic Substance List) or are exempt from DSL.

**EINECS:** Not Available.



**WHMIS:** B2, C, D2B.

**Section 16 OTHER INFORMATION****Notice to Reader**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above-named manufacturer nor any of its subsidiaries assumes any liability whatsoever for accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

**END OF SDS DOCUMENT**

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## Section 1 IDENTIFICATION

**Product Name:** Chem-Set™ 633LV Part B Hardener

**Manufacturer:** Chemical Concepts, Inc.

410 Pike Road

Huntingdon Valley, PA. 19006

Phone: 800.220.1966

Email: sales@chemical-concepts.com Website: www.chemical-concepts.com

Information department: Environment protection department.


**In Case of Emergency Contact INFOTRAC: 800.535.1035**

Telephone Number: Toll Free: 800.220.1966 Office: 267.684.1038 Fax: 215.357.2754

**Materials Uses:** Epoxy RESIN used with an Epoxy Hardener (Part B) to Bond Various Substrates.

## Section 2 HAZARD IDENTIFICATION

### GHS Classification:

CATEGORY	SIGNAL WORD	HAZARD STATEMENT(S)
Health Acute Oral Toxicity, Category 4 Acute Dermal Toxicity, Category 4 Acute Inhalation Toxicity, Category 4 Skin Irritation, Category 2 Eye Irritation, Category 2A STOT SE, Category 3	WARNING WARNING WARNING WARNING WARNING WARNING	H302 – Harmful if swallowed H312 – Harmful in contact with skin H332 – Harmful if inhaled H315 – Causes skin irritation H319 – Causes serious eye irritation H335 – May cause respiratory irritation
		

### GHS Precaution Statements:

#### Prevention:

P261 – Avoid breathing dust/fume/mist/vapors/spray.

P264 – Wash hands (or other affected skin surfaces) thoroughly after handling.

P270 – Do not eat, drink, or smoke when using this product.

P273 – Avoid release to the environment

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

#### Response:



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P305/P351/P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301/P312 – IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P302/P352 – IF ON SKIN: Wash with plenty of soap and water.

P333/P313 – If skin irritation or rash occurs get medical advice/attention.

**Storage:**

P403 – Store in a well-ventilated place.

P410 – Protect from sunlight.

P411 – Store at temperatures not exceeding 25°C (75°F).

**Disposal:**

P501 – Dispose of contents/containers in accordance with local/regional/national/international regulations.

**Route of Entry:** Eye contact, skin contact, inhalation, and ingestion.

**Target Organs:** Skin, eyes, respiratory tract, digestive tract, liver, kidney, olfactory and Central Nervous System (CNS).

**Skin Contact:** May cause irritation of the skin. Prolonged exposure may cause sensitization. Preexisting skin conditions may be aggravated by exposure to this material.

**Eye Contact:** May cause irritation and/or sensitization.

**Respiratory Contact:** Respiratory tract irritant. Prolonged exposure may result in dizziness, nausea, headache, and anesthetic effects. May cause sensitization. Preexisting respiratory conditions may be aggravated by exposure to this product. May cause CNS depression.

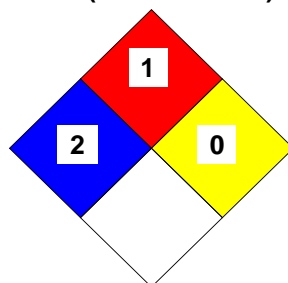
**Ingestion:** Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that the stomach vomit doesn't enter the lungs.

**Part B Hardener:**

**HMIS (United States)**

Health 2  
Flammability 1  
Reactivity 0  
PPE X

**NFPA (United States)**



**WHMIS (Canada):** B2, C, D2B



**Section 3 COMPOSITION / INFORMATION ON INGREDIENTS**

Name: Mixtures, Adhesives	CAS #	% by Weight
Fatty acids, C18-unsaturated, dimers, reaction Products with polyethylenepolyamines	68410-23-1	> 80%
Triethylenetetramine		< 3 %

**Section 4 FIRST-AID MEASURES**

**Skin:** Remove contaminated clothing. Flush skin with water, then wash affected areas with soap and water. If irritation develops, seek medical attention. Wash or dispose of clothing before reuse.

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**Eye:** Flush eyes with water for 15 minutes. Remove contact lenses prior to water flush if possible. Seek immediate medical attention.

**Respiratory:** Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Immediately get medical assistance.

**Ingestion:** Give patient water to dilute material in stomach. DO NOT induce vomiting. Seek immediate medical attention. If vomiting occurs naturally, have person lean forward to reduce risk of aspiration. DO NOT give anything by mouth to an unconscious person.

#### Section 5 FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** In case of fire, water spray, fog, dry chemical or CO<sub>2</sub>, or alcohol resistant foam.

**Specific Hazards Arising from the Chemical:** Fire may produce irritating, corrosive and/or toxic gases.

**Special Protective Equipment and Precautions for Firefighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, and rubber boots. In enclosed spaces, use self-contained breathing apparatus (SCBA) and protective clothing.

**Flammability Classification:** Combustible, Class IIIB estimated.

**Risk of Explosion due to Mechanical Impact:** Not Applicable.

**Risk of Explosion due to Static Discharge:** Not Applicable.

**Autoignition Temp.:** 816°F (436°C).

**LEL:** Not Available

**UEL:** Not Available

#### Section 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Keep unnecessary personnel away. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Eliminate all sources of ignition. For large spill or leak wear self-contained breathing apparatus (SCBA) and appropriate PPE.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid releases to the environment. Retain and dispose of contaminated was water. Keep out of sewers and drains. Contact local authorities if case of spillage to drain/aquatic environment.

**Clean-Up Methods and Materials:** Absorb with an inert material and place in an appropriate container for disposal.

#### Section 7 HANDLING AND STORAGE

**Handling Precautions:** Avoid breathing vapors. Use in a well-ventilated area. Wear rubber gloves (nitrile or butyl) and chemical resistant apron. Wear chemical splash goggles. Do not reuse empty containers.

**Storage Precautions:** Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well ventilated area.

#### Section 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control Parameters and Exposures:**

**Material Name:**

Fatty acids, C18-unsaturated, dimers, reaction

**Exposure Limits:**

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Products with polyethylenepolyamines (CAS No: 68410-23-1)  
Triethylenetetramine

None  
AIHA WEEL (1999-01-01)  
TWA – TLV and PEL 1 PPM

**Engineering Controls:** Provide adequate ventilation (general or local exhaust). Ensure that a working eyewash and safety shower are in the work area.

**Individual Protection Measures and PPE:**

**Eye / Face Protection:** Wear safety glasses with side shields or splash goggles.

**Skin Protection:** Chemical resistant gloves (nitrile or butyl) and chemical resistant apron are recommended.

**Respiratory Protection** In case of insufficient ventilation, wear an approved (NIOSH) respirator with organic vapor cartridge and dust/mist pre-filter.

**Thermal Hazards:** None.

**Section 9 PHYSICAL AND CHEMICAL PROPERTIES**

	<b>Part B Hardener</b>
<b>Appearance:</b>	Viscous Liquid
<b>Odor:</b>	Faint Amine Odor
<b>Odor Threshold:</b>	Not Available
<b>pH:</b>	Not Available
<b>Melting Point / Freezing Point:</b>	Not Available
<b>Initial Boiling Point:</b>	Not Available
<b>Flash Point and Method:</b>	Open Cup: Greater than > 110 °C (>230 °F) (ASTM D 4206)
<b>Flammability:</b>	Combustible, Class IIIB
<b>Lower Explosion Limit:</b>	Not Available
<b>Upper Explosion Limit:</b>	Not Available
<b>Vapor Pressure:</b>	.09 mm Hg @ 68°F (20°C)
<b>Vapor Density:</b>	1 (Air = 1)
<b>Relative Density:</b>	7.7 – 9.8 lbs./gallon
<b>Solubility in Water:</b>	Slightly
<b>Partition Coefficient (n-Octanol in Water):</b>	Not Applicable
<b>Auto-Ignition Temperature:</b>	816°F (436°C)
<b>Decomposition Temperature:</b>	Not Available
<b>Viscosity (Dynamic CPS/mPa-s):</b>	Various
<b>Percent Volatile:</b>	Not Available
<b>Specific Gravity:</b>	0.95 – 1.2

**Section 10 STABILITY AND REACTIVITY**

**Reactivity:** Product is stable under normal conditions.

**Chemical Stability:** The product is stable.

**Possibility of Hazardous Reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to Avoid:** Avoid exposure – obtain special instructions before use. Avoid all possible sources of ignition (spark or flame).

**Materials to Avoid (Incompatibility):** strong oxidizing agents,

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**Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Other hazards:** Heating this substance above 300°F in the presence of air may cause slow oxidative decomposition; above 500°F polymerization may occur.

## Section 11 TOXICOLOGICAL INFORMATION

### Acute Toxicity to Animals:

Fatty acids, C18-unsaturated, dimers, reaction

Products with polyethylenepolyamines (CAS No: 68410-23-1) LD50 = > 5,000 mg/kg (oral, rat)

Triethylenetetramine LD50 = 2,500 mg/kg (oral, rat)

**Acute Toxicity to Humans:** This product has not been tested for human effects. No additional information.

**Chronic Toxicity to Animals:** This product has not been tested for animal effects. No additional information.

**Chronic Toxicity to Humans:** This product has not been tested for human effects. No additional information.

### Skin Corrosion / Irritation:

Product/ingredient name	Result	Species	Score	Exposure	Observation
Triethylenetetramine	Eyes -Moderate irritant	Rabbit		24 hours	
	Skin – Severe irritant	Rabbit		24 hours	
	Eyes – Severe irritant	Rabbit			

**Eye Damage / Irritation:** Causes serious eye damage.

**Respiratory Sensitization:** Harmful if inhaled.

**Skin Sensitization:** Harmful in contact with skin.

**Ingestion:** Harmful if swallowed.

**Mutagenicity:** Not Available.

**Carcinogenicity:** Not Available.

**Reproductive Toxicity:** Not Available.

**Teratogenic Effects:** Not Available.

**STOST- Single Exposure:** Not Available.

**STOST – Repeated Exposure:** Not Available.

**Aspiration Hazard:** Not Available

## Section 12 ECOLOGICAL INFORMATION

**Ecotoxicity:** This product contains components that may be toxic to aquatic organisms and may cause long term adverse effects in an aquatic environment.

Product/ingredient name	Result	Species	Exposure
Triethylenetetramine	Acute LC50 33,900 µg/l Fresh water	Aquatic invertebrates, Water flea	48 hour
	Acute EC50 3,700 µg/l Fresh water	Aquatic plants – Green algae	96 hour

**Persistence and Degradability:** Benzyl Alcohol (CAS 100-51-6) - Biodegradability Biotic/Aerobic – Result 92 to 96% - Readily Biodegradable.

**Bioaccumulative Potential:** This product contains components with the potential to bio-accumulate.

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Product/ingredient name	LogPow	BCF	Potential
Triethylenetetramine	-1.66 to -1.4		Low
Fatty acids, C18-unsaturated, dimers, reaction products with polyethylenepolyamines (CAS 68410-23-1)		492.00	Low

**Mobility in Soil:** Not Available.**Other Adverse Effects:** Not Available.**Section 13 DISPOSAL CONSIDERATIONS****Disposal Methods:**

**Part B Hardener:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recycle-able products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Section 14 TRANSPORT INFORMATION****CFR:** Not Regulated**TDG:** Not Regulated**DOT Classification:** Not Regulated**IATA:****IMO:****Marine Pollutant:** No**Section 15 REGULATORY INFORMATION****U.S. Federal Regulations****United States – TSCA 12(b) – Chemical export notification:** None required.**United States – TSCA 5(a)2 – Final significant new use rules:** Not listed.**United States – TSCA 5(a)2 – Proposed significant new use rules:** Not listed.**United States – TSCA 5(e) – Substances consent order:** Not listed.**SARA 311/312 Chemical:** Yes

**Classification Hazard Categories:** Immediate (acute) health hazard  
Acute Toxicity (any route of exposure)  
Serious eye damage or eye irritation

**SARA 313 (TRI reporting)** Not regulated.**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List:** Not regulated.**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):** Not regulated.**Safe Drinking Water Act (SDWA):** Not regulated.**State Regulations**

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**California Proposition 65:** None required.

**TSCA (Toxic Substances Control Act):** All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory Requirements.

**International Regulations:**

**DSL (Canada Domestic Substance List):** All components of this product are on the DSL (Canada Domestic Substance List) or are exempt from DSL.

**EINECS:** Not Available.



**WHMIS:** B2, C, D2B.

**Section 16 OTHER INFORMATION**

**Notice to Reader**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above-named manufacturer nor any of its subsidiaries assumes any liability whatsoever for accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

**END OF SDS DOCUMENT**



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