



SAFETY DATA SHEET

Superior Chemical Resistant Novolac System (CRS III MC)

Version: 2.0
Revision Date: 01/01/2021

SDS Number: A00120
Printed Date: 01/01/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Tera-Gem III CRS III MC (Pigmented) – ‘A’ Side

Product Use Description : Liquid Resin

Manufacturer : Tera-Lite, Inc.
1631 S. 10th St
San Jose, CA 95112

Telephone : 1-408-288-8655 (Corporate – Non Emergency)
1-800-325-0671 Emergency

Email Address : teralite@ix.netcom.com

2. HAZARDS IDENTIFICATION AND INGREDIENTS

Emergency Overview: HMIS RATING Health 2
Flammability 1
Reactivity 0
Protective Equipment X

In case of fire: use carbon dioxide, foam, dry chemicals, and water spray with self-containing breathing apparatus.

WARNING: Skin sensitizes. Can cause allergic skin reaction.

Hazard Statement: IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200, THIS SAFETY DATA SHEET HAS BEEN PREPARED. THIS MATERIAL IS CONSIDERED TO BE HAZARDOUS UNDER THIS REGULATION.

<u>%</u>	<u>CAS NO</u>	<u>CHEMICAL NAME</u>
>75	28064-14-4	Phenol-Formaldehyde polymer, Glycidyl Ether. (Epoxy Phenol Novolac Resin) OSHA PEL: None established ACGIH TLV: None Established Carcinogen Status: Not reviewed by NTP, IARC or OSHA.

<u>%</u>	<u>CAS NO</u>	<u>CHEMICAL NAME</u>
< 5	101-90-6	Resorcinol Diglycidyl Ether OSHA TLV: None established OSHA PEL: None established
< 10		Furfuryl Alcohol OSHA TLV: None established OSHA PEL: None established

THE REMAINING COMPONENTS ARE TRADE SECRET

3. HEALTH HAZARDS

Primary Routes of Exposure:

- Ingestion
- Skin Absorption
- Eye Contact
- Inhalation

Exposure Standards:

- No standard has been established for this product. Keep air contaminant concentration in work area to lowest levels.

Health Hazard:

- **Skin** - A single prolonged exposure is unlikely to be absorbed through the skin in harmful amounts. Repeated exposure may cause irritation and/or allergic reaction in humans.
 - **Eye** - A single contact may be moderately irritating to the eyes. Can result in thermal burns if the resin is at elevated temperature.
 - **Inhalation** - Because of its low volatility, this material is not likely to be an inhalation hazard.
 - **Overexposure Effects** - Irritation, sensitization and dermatitis medical conditions aggravated by exposure allergy, eczema or skin conditions.
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4. EMERGENCY AND FIRST AIDS

Ingestion: Give 3-4 glasses of water. Do not induce vomiting. If vomiting occurs, give more water. Get medical attention immediately. Have physician determine if emesis induction is necessary.

Skin Contact: Wash with running soap and water for at least 15 minutes. Remove contaminated clothing and shoes and discard or decontaminate before re-use. Seek medical advice immediately.

Eye Contact: Flush eyes with eyelids apart with running water for 15 minutes. Get immediate medical help.

Inhalation: If inhaled, remove person to fresh air. Get medical attention if breathing becomes difficult or irritating

5. FIRE AND EXPLOSION HAZARD

Properties:	Flash Point (Tag closed cup)	199 C (390 F)
	Upper Explosion Limit (UEL)	No Data
	Lower Explosion Limit (LEL)	No Data
	Auto ignition Temperature	No Data
	Fire Hazard Classification (OSHA/NFPA)	Class IIIB

Extinguishing: Use water fog, foam, dry chemicals or carbon dioxide.

Special Fire

Fighting Procedures: Spray and cool fire exposed containers with water. In confined space fire area use NIOSH approved breathing apparatus.

Unusual Fire and

Explosion Hazards: Decomposition and combustion products may be toxic.

6. PERSONAL PROTECTION AND EXPOSURE

Respiratory Protection: In most circumstances not required

Protective Equipment: Use appropriate safety glasses, goggles or face shield for eye protection and protective clothing for skin protection. Wear impervious gloves for hand protection. Use of barrier cream is recommended.

Ventilation: Good general mechanical ventilation with proper exhaust system, providing good air.

7. SPILL AND LEAK PROCEDURES

Protect people by keeping unnecessary people away and avoiding all personal contact. For large spill contain material by use of dikes or barrier. Keep out of sewers, storm drains, soil and surface water. Keep fire or spark producing equipments away. For clean-up, soak up with absorbent materials such as sand, clay or other suitable materials. Residual material may be removed using soapy water. Place absorbent material in a suitable container to be disposed in accordance with federal, state and local regulations.

8. PHYSICAL PROPERTIES

Appearance:	Slight, Pale Yellow Liquid
Odor:	Faint epoxy odor
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Boiling Point:	Not applicable
Solubility in Water:	None
Specific Gravity:	(H20 = 1) 1.15

9. REACTIVITY AND STABILITY

Chemical Stability:	Stable at ambient temperature
Conditions to Avoid:	Elevated temperature over long period
Incompatible Materials:	Acids, bases and oxidizing agents
Hazardous Decomposition:	Carbon monoxide and aldehydes
Hazardous Polymerization:	Will not occur by itself

10. STORAGE AND HANDLING

Storage: Keep away from acids, oxidizers and heat. Protect containers from physical abuse.

Handling: Avoid contact to eyes and skin. Avoid excessive breathing of vapor. Smoking and open flame is not permitted in the area.

11. TOXICOLOGY INFORMATION

Acute Oral Effects (LD50):	(Rat) Greater than 10,000 mg/kg.
Acute Dermal Toxicity (LD50):	(Rabbit) Greater than 3,000 mg/kg.
Sensitization:	(Human) not a sensitizer
Skin Irritation:	(Rabbit) Moderate irritation
Eye Irritation:	(Rabbit) Slight irritant

12. ECOLOGICAL INFORMATION

No ecological information available.

13. TRANSPORTATION INFORMATION

DOT Shipping Name:	Resin compound – Not DOT regulated
IMO Shipping Data:	Not DOT regulated
ICAO/IATA Shipping:	Not DOT regulated

14. REGULATORY INFORMATION

FEDERAL

- **Sara Title III Sec. 313**
Under this regulation this product does not contain a toxic chemical for annual Toxic Chemical release reporting under Sec 313 (40 CFR 372).
- **OSHA Hazard Communication Standard**
Under 29 CFR 1910.1200 this product is a “Hazardous Chemical”.
- **TSCA Inventory Status**
All chemical components of this product are listed on TSCA inventory.
- **Cercla Status**
Not Listed
- **RCRA:**
Not a hazardous waste under RCRA (40 CFR 372)

STATE

- **California proposition 65 listed chemicals:** This material may contain trace amount of epichlorohydrin and or phenol glycidyl ether, which are known to the State of California to cause cancer.

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Superior Chemical Resistant Novolac System (CRS III MC)

Version: 2.0
Revision Date: 01/01/2021

SDS Number: B00120
Printed Date: 01/01/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Tera-Gem III CRS III MC (Pigmented) – 'B' Side

Product Use Description : Epoxy Curing Agent

Manufacturer : Tera-Lite, Inc.
1631 S. 10th St
San Jose, CA 95112

Telephone : 1-408-288-8655 (Corporate – Non Emergency)
1-800-325-0671 Emergency

Email Address : teralite@ix.netcom.com

2. HAZARDS IDENTIFICATION AND INGREDIENTS

Emergency Overview: HMIS RATING Health 3
Flammability 1
Reactivity 1
Protective Equipment X

In case of fire: Use carbon dioxide, foam, dry chemicals, with self-containing breathing apparatus.

Hazards: Moderate eye, respiratory and skin irritant.
May cause skin sensitization.

Hazard Statement: IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200, THIS SAFETY DATA SHEET HAS BEEN PREPARED.

<u>%</u>	<u>CAS NO</u>	<u>CHEMICAL NAME</u>
<50	1477-55-0	Benzene-1, 3-dimethylamine (MXDA) OSHA PEL-C: 0.1000 mg/m ³ skin ACGIH TLV-C: 0.1000 mg/m ³ skin

THE REMAINING COMPONENTS ARE TRADE SECRET

3. HEALTH HAZARDS

Primary Routes of Exposure:

- Ingestion
- Skin Absorption
- Eye Contact
- Inhalation

Exposure Standards:

- No standard has been established for this product. Keep air contaminant concentration in work area to lowest levels.

Target Organs:

- Eyes, skin and respiratory systems.

Health Hazards:

Corrosive liquid, which may cause severe eye, skin and respiratory tract irritation. May cause skin sensitization.

Sign and Symptoms of Exposure (Acute Effects):

- Material vapor in low concentration can cause lacrimation, conjunctivitis and corneal edema when absorbed into the tissue of the eye from the atmosphere. This may give rise to a perception of “Blue Haze” or “fog” around lights. The effect is transitory and has no know lasting effect. Inhalation of the vapor, mist or fog may cause irritation in the respiratory tract and other harms. Eyes and skin contact with the undiluted material will quickly cause sever irritation and pain and may lead to burns, necrosis and permanent injury. Ingestion may cause bleeding of the gastrointestinal tract and vomiting of blood.

Sign and Symptoms of Exposure (Possible Longer Term Effects)

- Repeated and prolonged exposure may cause allergic reaction/sensitization, adverse respiratory effects (cough, tightness of chest or shortness of breath), adverse eye effects (conjunctivitis or corneal damage) and/or adverse skin effects (defatting, rash, irritation). Prolonged or repeated vapor inhalation effects may be delayed and which may cause dryness of nasal passages and sore throat.

Medical Conditions Generally Aggravated by Exposure

- Asthma, chronic respiratory disease, eye disease, skin disorders and allergies.

4. EMERGENCY AND FIRST AIDS

Ingestion: Give 3-4 glasses of water or milk. Do not induce vomiting. If vomiting occurs, give more water. Get medical advice.

Skin Contact: Wash with running soap and water for at least 15 minutes. Remove contaminated clothing and shoes and discard or decontaminate before re-use. Seek medical advice.

Eye Contact: Flush eyes with eyelids apart with running water for 15 minutes. Get medical help.

Inhalation: If breathing is stopped or is labored, remove person to fresh air and give assisted respiration. Prevent person from vomiting. Get medical attention if breathing becomes difficult or irritating.

5. FIRE AND EXPLOSION HAZARD

Properties:	Flash Point (Tag closed cup)	104 C (219 F)
	Upper Explosion Limit (UEL)	No Data
	Lower Explosion Limit (LEL)	No Data
	Auto ignition Temperature	No Data
	Fire Hazard Classification (OSHA/NFPA)	Class IIIB

Extinguishing Media: Use water fog, foam, dry chemicals or carbon dioxide.

Special Fire Fighting Procedures: Spray and cool fire exposed containers with water. Fire fighters should be protected with butyl rubber gloves, boots and body suite. In confined space fire area use self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Decomposition and combustion products may be toxic. Sudden reaction and fire may result if the product is mixed with an oxidizing agent. Evacuate personnel in vicinity and downwind.

6. PERSONAL PROTECTION AND EXPOSURE

Respiratory Protection: In poorly ventilated area A NIOSH approved organic vapor respirator is recommended.

Protective Equipment: Use approved splash proof safety glasses, goggles or face shield for eye protection. Wear protective clothing resistant to this product. Immediately remove contaminated clothing and wash exposed skin with soap and water.

Ventilation: Good general mechanical ventilation with proper exhaust system, providing good air flow.

7. SPILL AND LEAK PROCEDURES

Protect people by keeping unnecessary people away and avoiding all personal contact. For large spill contain material by use of dikes or barrier. Keep out of sewers, storm drains, soil and surface water. Keep fire or spark producing equipments away. For clean-up soak up with absorbent materials such as sand, clay or other suitable materials. Residual material may be removed using soapy water. Placed absorbent material in a suitable container to be disposed in accordance with federal, state and local regulations.

8. PHYSICAL PROPERTIES

Appearance:	Dark brownish color liquid
Odor:	Ammoniacal Odor
Vapor Pressure:	No Data
Vapor Density:	No Data
Boiling Point:	225 C (437 F)
Solubility in Water:	Slight
Specific Gravity:	(H2O = 1) 1.047
Evaporation Rate:	No Data

9. REACTIVITY AND STABILITY

Chemical Stability:	Stable at ambient temperature
Conditions to Avoid:	Not Applicable
Incompatible Materials:	Acids, and oxidizing agents
Hazardous Decomposition:	Carbon monoxide and nitrogen oxides in fire. Ammonia and hydrogen cyanide when heated. Under oxygen-starved conditions combustion products like nitrile, cyanic acid, isocyanates, cyanogens and carbamate are formed.

10. STORAGE AND HANDLING

Storage:	Keep away from acids, oxidizers and heat. Protect containers from physical abuse.
Handling:	Avoid contact to eyes and skin. Avoid excessive breathing of vapor. Smoking and open flame is not permitted in the area.

11. TOXICOLOGY INFORMATION

Acute Oral Toxicity (LD50):	(Rat) > 1,750 mg/kg.
Acute Dermal Toxicity (LD50):	(Rabbit) > 2,000 mg/kg (Estimate)
Acute Inhalation Toxicity (LC50):	(Rat) > 700 ppm/hr (Estimate)
Other Acute Effects:	No Data
Irritation Effects Data:	Corrosive to the skin of rabbit
Chronic/Subchronic Data:	No delayed chronic or subchronic test data are known

12. ECOLOGICAL INFORMATION

Ecotoxicity:	No Data
Environmental Fate:	No Data
Additional Information:	No Data

13. DISPOSAL CONSIDERATIONS

Comply with all federal, state and local regulations. May incinerate in admixture with fuel equipped with scrubber to remove nitrogen oxide and carbon monoxide.

14. TRANSPORTATION INFORMATION

DOT Non-Bulk Shipping Name:	Amine. Liquid. Corrosive. N.O.S. (Benzene-1, 3 Dimethaneamine MXDA); 8; UN2735; PG III
IMO SHIPPING DATA:	Amine. Liquid. Corrosive. N.O.S. (Benzene-1, 3 Dimethaneamine MXDA); 8; UN2735; III; IMDG Page 8109-2; F.P.93.3 C; Placard Corrosive; HazMat STCC=4935601; EMS No 8-05;MFAG No 320
ICAO/IATA Shipping:	Amine. Liquid. Corrosive. N.O.S. (Benzene-1, 3 Dimethaneamine MXDA); 8; UN2735; II; F.P.93.3 C; Shipment per 49CFR 171.11

15. REGULATORY INFORMATION

FEDERAL

- **Sara Title III Sec. 312 and Sec. 313**
Under this regulation this product is classified as an “immediate health hazard” and under sec. 313 there are no components above the “de minimis level.”
- **OSHA Hazard Communication Standard**
Under 29 CFR 1910.1200 this product is a “Corrosive”.
- **TSCA Inventory Status**
All chemical components of this product are listed on TSCA inventory.
- **Cercla Status**
Not Listed

STATE

- **California proposition 65 listed chemicals:**
None

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