

# SAFETY DATA SHEET

# Roll-Seed-Roll Decorative Flooring System (RSR DQ)

Version: 2.0 SDS Number: A00260 Revision Date: 01/01/2021 Printed Date: 01/01/2021

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Tera-Gem III RSR DQ (Decorative) – 'A' Side

Product Use Description: Liquid Resin

Manufacturer: Tera-Lite, Inc.

1631 S. 10<sup>th</sup> 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

OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200).

GHS Classifications: Skin Irritation – Category 2

SERIOUS EYE DAMAGE / EYE IRRITATION – Category 2A

Skin Sensitization – Category 1

AQUATIC HAZARD (ACUTE) – Category 3 AQUATIC HAZARD (LONG-TERM) – Category 2

**GHS Label Elements** 

Hazard Pictograms/Symbols:



Signal Word: Warning

Hazard Statement: H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction H341 Suspected of causing genetic defects

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements: P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P273 – Avoid release to the environment.

P261 – Avoid breathing vapor.

P264 – Wash hands thoroughly after handling.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P391 – Collect spillage

P302/P350 – IF ON SKIN – Gently wash with plenty of soap and water.

P362 – Take off contaminated clothing and wash before reuse P332 – If skin irritation or rash occurs: Get medical attention.

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

rinsing.

P337 – If eye irritation persists get medical attention.

P501 – Dispose of contents and container in accordance with all local,

regional, national and international regulations.

Hazards not classified: None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components   | CAS Number | % Concentration |  |
|--|------------|-----------------|--|
| Bishphenol A Epoxy Resin   | 25068-38-6 | 70 -80          |  |
| Butylphenyl glycidyl ether   | 3101-60-8  | 5 - 10          |  |
| Cresyl glycidyl ether, ortho   | 2210-79-9  | 5-8             |  |
| Talc   | 14807-96-6 | 10-15           |  |
| Titanium Dioxide   | 13463-67-7 | 5-10            |  |
| Pigments   |            | 5-10            |  |
| Any concentration shown as a range is to protect confidentiality or is due to batch variation. |            |                 |  |

#### 4. FIRST AID MEASURES

**Eve Contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

<u>Inhalation</u>: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth to mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin Contact**: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

<u>Ingestion</u>: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are sever. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar tie, belt or waistband.

#### Potential acute health effects

Eye Contact: Causes serious eye irritation.

Inhalation: No known significant effects or critical hazards

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Ingestion: Irritating to mouth, throat and stomach.

## Over-exposure signs/symptoms

Eye Contact: Adverse symptoms may include the following: Pain or irritation, watering, redness.

Inhalation: No specific data.

Skin contact: Adverse symptoms may include the following: irritation, redness.

Ingestion: No specific data.

<u>Indication of immediate medical attention and special treatment needed, if necessary</u>

Notes to physician: No specific treatment. Treat symptomatically. Call medical doctor or poison control center

immediately if large quantities have been ingested.

First Aiders Protection: No action shall be taken involving any personal risk or without suitable training. It may be

dangerous to the person providing aid to give mouth to mouth resuscitation. Wash contaminated

clothing thoroughly with water before removing it or wear gloves.

#### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use an extinguishing agent suitable for the surrounding fire

Unsuitable Extinguishing Media: None Known.

Specific Hazards: In a fire or if heated, a pressure increase will occur and the container may burst.

This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being

discharged to any waterway, sewer or drain.

Hazardous Thermal

Decomposition Products: Decomposition products may include the following: Carbon Dioxide, Carbon

Monoxide, Halogenated Compounds

Special Protective Actions for

Fire Fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident

if there is a fire. No action shall be taken involving any personal risk or without

suitable training.

Special Protective Equipment

For Fire Fighters: Fire fighters should wear appropriate protective equipment and self-contained

breathing apparatus (SCBA) with full face piece operated in positive pressure mode.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment & Emergency Procedures:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**Environmental Precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and

> sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the

environment if released in large quantities, Collect spillage.

Methods and Materials for

Cleaning up:

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain the collect spillage with noncombustible, absorbent material (sand, earth, vermiculite diatomaceous earth) and place in

container for disposal according to local regulations.

#### 7. HANDLING AND STORAGE

Precautions for Safe Handling

Protective Measures: Put on appropriate personal protective equipment. Persons with a history of skin

sensitization problem should be not employed in any process in which this project is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved

alternative made from a compatible material, kept tightly closed when not in use. Do not

reuse container.

Conditions for safe storage: Store between 2 to 40 degrees C (35.6 to 104 degrees F). Store in original container

> protected from direct sunlight in a dry, cool and well ventilated area. Keep container tightly closed and sealed until use. Containers that have been opened must be carefully

resealed and kept upright to prevent leakage.

Advise on General

Occupational Hygiene:

Eating, drinking, and smoking should be prohibited in areas where this material is handled,

stored and processed. Workers should wash hands and face before eating, drinking,

smoking. Remove contaminated clothing and protective equipment before entering eating

areas.

#### EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: Good general ventilation should be sufficient to control worker exposure to airborne

contaminants.

Hygiene Measures: Wash hands, forearms and face after handling chemical products, before eating, smoking,

and using the lavatory and at the end of the work period. Ensure that eyewash stations and

safety showers are close to the workstation location.

Chemical safety glasses / splash goggles. Eye/Face Protection:

Hand Protection: Chemical resistant, impervious gloves with an approved standard should be worn at all times

when handling chemical products if a risk assessment indicates this is necessary. Neoprene

gloves, Nitrile rubber, Neoprene, Polyvinyl Chloride (PVC).

Skin and Body Protection: Long Sleeve shirts and trousers without cuffs, appropriate footwear. Personal Protection

Equipment for the body should be selected based on the task being performed and risks

involved.

Respiratory Protection: : Wear appropriate respirator when ventilation is inadequate.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid

Color : Various Colors

Odor : Slight

Odor Threshold : No data available

pH : 7

Melting /Freezing Point: No data available

Boiling/Condensation : >200 degrees C (>392 degrees F) Flash Point : >200 degrees C (>392 degrees F)

Evaporation Rate : No data available Flammability (solid,gas): No data available

Lower /Upper Explosive

Flammability Limit : No data available

Vapor Pressure : <0.000075 mmHg at room temperature

Vapor Density : No data available Relative Density : No data available

Solubility in Water : Insoluble

Partition coefficient

(n-octanol/water): No data available: No data available

Decomposition temp :> 200 degrees C /> 392 degrees FDensity :> 1.15 to 1.2 g/cm 3 (77 degrees F)

Viscosity : Dynamic (room temperature): 7000 to 9000 mPa.s (7000 to 9000 cP)

#### 10. STABILITY AND REACTIVITY

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability : The product is stable under normal conditions.

Conditions to avoid : No specific data.

Materials to avoid : Oxidizing agents

Hazardous Decomposition

Products : Under normal conditions of storage and use, hazardous decomposition products should not

be produced.

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| Product/ingredient Name    | Test                   | Endpoint             | Species          | Results     |
|----------------------------|------------------------|----------------------|------------------|-------------|
| Bishphenol A Epoxy Resin   | OECD 402 Acute Dermal  | LC0 Inhalation Vapor | Rat-Male         | 0.00001 ppm |
|                            | Toxicity               | LD50 Dermal          | Rat-Male, Female | >2000 mg/kg |
|                            | OECD 420 Acute Oral    |                      |                  |             |
|                            | Toxicity –Fixed        | LD50 Oral            | Rat - Female     | >2000 mg/kg |
|                            | Dose Method            |                      |                  |             |
| Butylphenyl glycidyl ether | OECD 402 Acute         | LD50 Dermal          | Rat-Male, Female | >2000 mg/kg |
|                            | Dermal Toxicity        |                      |                  |             |
|                            | OECD 425 Acute         | LD50 Oral            | Rat-Female       | >2000 mg/kg |
|                            | Oral Toxicity: Up-and- |                      |                  |             |
|                            | Down Procedure         |                      |                  |             |

## Irritation/Corrosion

| Produce Ingredient Name    | Test                                       | Species | Results               |
|----------------------------|--|---------|-----------------------|
| Bisphenol A Epoxy Resin    | OECD 404 Acute Dermal Irritation/Corrosion | Rabbit  | Skin – Mild Irritant  |
|                            | OECD 405 Acute Eye Irritation/Corrosion    | Rabbit  | Eyes – Mild Irritant  |
|                            |  |         |                       |
| Butylphenyl Glycidyl Ether | OECD 402 Acute Dermal Toxicity             | Rat     | Skin – Non-Irritant   |
|                            | OECD 405 Acute Eye Irritation / Corrosion  | Rabbit  | Eyes – Non - Irritant |

# Conclusion/Summary

: Bishphenol A Epoxy Resin Butylphenyl glycidyl ether Skin Irritation to skin

Non-irritating to the skin

: Bishphenol A Epoxy Resin Eyes Irritation to eyes

Butylphenyl glycidyl ether Non-irritating to the eyes

: Bishphenol A Epoxy Resin Butylphenyl glycidyl ether Respiratory No additional information

No additional information

## Sensitization

| Product/Ingredient Name    | Test           | Route of exposure | Species | Result      |
|----------------------------|----------------|-------------------|---------|-------------|
| Bishphenol A epoxy resin   | OECD 429 Skin  | Skin              | Mouse   | Sensitizing |
|                            | Sensitization: |                   |         | _           |
|                            | Local Lymph    |                   |         |             |
|                            | Node Assay     |                   |         |             |
| Butylphenyl glycidyl ether | OECD 429 Skin  | Skin              | Mouse   | Sensitizing |
|                            | Sensitization: |                   |         | _           |
|                            | Local Lymph    |                   |         |             |
|                            | Node Assay     |                   |         |             |

Mutagenicity

| Product/ingredient name    | Test                        | Result   |
|----------------------------|-----------------------------|----------|
| Bishphenol A epoxy resin   | Experiment: In vitro        | Positive |
|                            | Subject: Bacteria           |          |
|                            | Metabolic activation: +/-   |          |
|                            | Experiment: In vitro        | Positive |
|                            | Subject: Mammalian – Animal |          |
|                            | Cell: Somatic               |          |
|                            | Metabolic activation: +/-   |          |
|                            | Experiment: In vivo         | Negative |
|                            | Subject: Mammalian – Animal |          |
|                            | Cell: Germ                  |          |
|                            | Experiment: In vivo         | Negative |
|                            | Subject: Mammalian – Animal |          |
|                            | Cell: Somatic               |          |
| Butylphenyl glycidyl ether | Experiment: In vitro        | Positive |
|                            | Subject: Bacteria           |          |
|                            | Experiment: In vitro        | Positive |
|                            | Subject: Mammalian –Animal  |          |

Carcinogenicity

| Product/ingredient | Test                     | Species    | Dose     | Exposure        | Result/Result Type |
|--------------------|--------------------------|------------|----------|-----------------|--------------------|
| name               |                          |            |          |                 |                    |
| Bisphenol A epoxy  | OEDS 453                 | Rat-Male,  | 15 mg/kg | 2 years; 7 days | Negative – Oral –  |
| resin              | Combined Chronic         | Female     |          | per week        | NOAEL              |
|                    | Toxicity/Carcinogenicity |            |          |                 |                    |
|                    | studies                  |            |          |                 |                    |
|                    | OEDS 453                 |            |          |                 |                    |
|                    | Combined Chronic         | Rat-Female | 1 mg/kg  | 2 Years; 5 days | Negative- Dermal – |
|                    | Toxicity/Carcinogenicity |            |          | per week        | NOAEL              |
|                    | studies                  |            |          |                 |                    |
|                    | OEDS 453                 | Mouse-Male | 0.1      | 2 years; 3 days | Negative- Dermal - |
|                    | Combined Chronic         |            | mg.kg    | per week        | NOAEL              |
|                    | Toxicity/Carcinogenicity |            |          | _               |                    |
|                    | studies                  |            |          |                 |                    |

Reproductive toxicity

| reproductive territory  |              |                  |                   |           |                       |
|-------------------------|--------------|------------------|-------------------|-----------|-----------------------|
| Product/ingredient Name | Test         | Species          | Maternal Toxicity | Fertility | Developmental Effects |
| Bisphenol A epoxy resin | OECD 416     | Rat-Male, Female | Negative          | Negative  | Negative              |
|                         | Two-         |                  |                   |           |                       |
|                         | Generation   |                  |                   |           |                       |
|                         | Reproduction |                  |                   |           |                       |
|                         | Toxicity     |                  |                   |           |                       |
|                         | Study        |                  |                   |           |                       |

Teratogenicity

| Product/ingredient Name | Test                         | Species         | Result/Result type |
|-------------------------|------------------------------|-----------------|--------------------|
| Bisphenol A epoxy resin | OECD 414 Prenatal            | Rat – Female    | Negative – Oral    |
|                         | developmental toxicity study |                 |                    |
|                         | EPA CFR                      | Rabbit – Female | Negative – Dermal  |
|                         | OECD 4414 Prenatal           | Rabbit - Female | Negative - Oral    |
|                         | developmental toxicity study |                 |                    |

Specific Target Organ Toxicity (single exposure) – Not available Specific Target Organ Toxicity (repeated exposure) – Not available Aspiration Hazard – Not available Information on the likely routes of exposure – Not available

## Potential acute health effects

Eye contact : Causes serious eye irritation

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

Pain or irritation, watering, redness.

Inhalation : No specific data

Skin Contact : Adverse symptoms may include irritation, and redness.

Ingestion : No specific data

Delayed and immediate effects and chronic effects from short and long term exposure

Short term exposure

Potential Immediate effects – Not available Potential delayed effects – Not available

## Long term exposure

Potential Immediate effects – Not available Potential delayed effects – Not available

## Potential chronic health effects

| Product/ingredient name | Test                   | Endpoint     | Species            | Results   |
|-------------------------|------------------------|--------------|--------------------|-----------|
| Bisphenol A epoxy resin | OECD 408 Repeated      | Sub-chronic  | Rat – Male, Female | 50 mg/kg  |
|                         | Dose 90 day Oral       | NOAEL Oral   |                    |           |
|                         | Toxicity Study in      |              |                    |           |
|                         | Rodents                |              |                    |           |
|                         | OECD 411 Subchronic    | Sub-chronic  | Rat – Male, Female | 10 mg/kg  |
|                         | Dermal Toxicity 90 day | NOEAL Dermal |                    |           |
|                         | Study                  |              |                    |           |
|                         | OECD 411               |              |                    |           |
|                         | Subchronic Dermal      | Sub-chronic  | Mouse - Male       | 100 mg/kg |
|                         | Toxicity 90 day Study  | NOAEL Dermal |                    |           |

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very

low levels.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental Effects: No known significant effects or critical hazards.

Fertility Effects: No known significant effects or critical hazards.

Acute toxicity estimates: Not available

## 12. ECOLOGIAL INFORMATION

**Toxicity** 

| Product/ingredient Name | Test  | Endpoint     | Exposure                | Species  | Result     |
|-------------------------|---|--------------|-------------------------|----------|------------|
| Bisphenol A epoxy resin | EPA CFR   | Acute EC50   | 72 hours static         | Algae    | 9.4 mg/l   |
|                         | OECD 202 Daphnia sp.<br>Acute immobilization  | Acute EC50   | 48 hours static         | Daphnia  | 1.7 mg/l   |
|                         | test. Unknown guidelines  | Acute IC 50  | 3 hours static          | Bacteria | >100 mg/l  |
|                         | OECD 203 Fish, Acute<br>Toxicity Test   | Acute LC 50  | 96 hours static         | Fish     | 1.5 mg/l   |
|                         | OECD 211 Daphnia<br>Magna   | Chronic NOEC | 21 days semi-<br>static | Daphnia  | 0.3 mg/l   |
|                         | Reproduction test   |              |                         |          |            |
| Butylphenyl glycidyl    | OECD 209 Activated  | Acute EC50   | 3 hours static          | Bacteria | >1000 mg/l |
| ether                   | sludge, respiration<br>inhibition test<br>OECD 202: Part 1<br>(Daphnia sp., Acute<br>Immobilization test) | Acute EC50   | 48 hours static         | Daphnia  | 67.9 mg/l  |
|                         | OECD 201 Alga,  | Acute EbC50  | 72 hours static         | Algae    | 9 mg/l     |
|                         | Growth Inhibition Test  |              |                         |          |            |
|                         | OECD 203 Rish Acute   | Acute LC50   | 96 hours static         | Fish     | 7.5 mg/l   |
|                         | Toxicity Test   |              |                         |          |            |

Persistence and degradability

| Product/ingredient Name    | Test                               | Period  | Result |
|----------------------------|------------------------------------|---------|--------|
| Bisphenol A epoxy resin    | OECD Derived from OECD 301 F       | 28 days | 5%     |
|                            | (biodegradation test)              |         |        |
| Butylphenyl glycidyl ether | OECD 301D Ready Biodegradability – | 28 days | 1.1%   |
|                            | Closed bottle test                 |         |        |

Conclusion / Summary : Bist

: Bisphenol A epoxy resin – not readily biodegradable.

| Product/ingredient Name    | Aquatic half-life     | Photolysis | Biodegradability |
|----------------------------|-----------------------|------------|------------------|
| Bisphenol A epoxy resin    | Fresh water 4.83 days | -          | Not readily      |
|                            | Fresh water 3.58 days |            |                  |
|                            | Fresh water 7.1 days  |            |                  |
| Butylphenyl glycidyl ether | Fresh water 17 days   | -          | Not readily      |

Bio accumulative potential

| Product/ingredient Name    | LogP ow | BCF | Potential |
|----------------------------|---------|-----|-----------|
| Bisphenol A epoxy resin    | 3.242   | 31  | Low       |
| Butylphenyl glycidyl ether | 3.59    | -   | Low       |

Mobility in soil: Not available

Other adverse effects : No known significant effects or critical hazards.

Other ecological information:
BOD5 : Not determined
COD : Not determined
TOC : Not determined

#### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

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-recyclable 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 containers must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled materials and runoff an contact with soil, waterways, drains and sewers.

## 14. TRANSPORT INFORMATION

Proper shipping name

DOT : Environmentally hazardous substance, liquid, n.o.s. (Bisphenol a epoxy resin) Marine pollutant TDG : Environmentally hazardous substance, liquid, n.o.s. (Bisphenol a epoxy resin) Marine pollutant IMDG : Environmentally hazardous substance, liquid, n.o.s. (Bisphenol a epoxy resin) Marine pollutant

IATA: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol a epoxy resin)

| Regulatory<br>Information | UN Number | Classes | PG* | Label | Additional Information   |
|---------------------------|-----------|---------|-----|-------|--|
| DOT Classification        | UN3082    | 9       | III |       | Marine pollutants are only regulated for bulk and vessel shipments, per 49CFR171.4 © Exceptions. Except when all or part of the transportation is by vessel, the requirements of this subchapter specified to marine pollutants do not apply to non-bulk packaging's transported by motor vehicle, rail car or aircraft. |
| TDG Classification        | UN3082    | 9       | III |       | -  |
| IMDG Classification       | UN3082    | 9       | III |       | Emergency schedules (Ems) F-A S-F  |
| IATA Classification       | UN3082    | 9       | III |       | Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964  Cargo Aircraft Only Quantity limitation: 450 L Packaging instructions: 964  |

PG\*: Packing Group

## 15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product

**United States Regulations** 

TSCA 8(b) Inventory : All components are listed or exempted.

TSCA 5(a)2 Final : No ingredients listed

Significant new use rule (SNUR)

TSCA 5(e) substance consent order : No ingredients listed : No ingredients listed : No ingredients listed

SARA 311/312 : Immediate (acute) health hazard

Clean Air Act - Ozone

Depleting Substances (ODS) : This product does not contain nor is it manufactured with

ozone depleting substances.

SARA 313 : No ingredients listed

California Prop 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

1-chloro-2,3-epoxypropane Yes Yes

#### 16. OTHER INFORMATION

HMIS Rating (USA)

Health 2 Flammability 1 Physical hazard 0

National Fire Production Association

Health 2 Flammability 1 Instability 0

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE REPONSIBILITY OF THE USER TO DETERMINE THE APPLICABLITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION, WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUANRATEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIT.

Hazards, toxicity and behavior of the products may differed when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.



# SAFETY DATA SHEET

Roll-Seed-Roll Flooring System Decorative (RSR DQ)

Version: 2.0 SDS Number: B00260 Revision Date: 01/01/2021 Printed Date: 01/01/2021

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Tera-Gem III IFS DQ (Decorative) '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

HMIS RATING Health 3

Flammability 1 Reactivity 0

Protective Equipment X

In case of fire: use carbon dioxide, foam, and 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 MATERIAL SAFETY DATA SHEET 9MSDS) HAS BEEN PREPARED.

<u>% CAS NO</u> <u>CHEMICAL NAME</u>

> 5 25620-58-0 Trimethylhexamethylenediamine (TMD)

OSHA PEL: None established ACGIH TLV: None Established

| <u>%</u> | CAS NO    | CHEMICAL NAME  |
|----------|-----------|--|
| < 6      | 1477-55-0 | Benzene-1, 3-dimethylamine (MXDA)<br>OSHA PEL-C: 0.1000 mg/m3 skin<br>ACGIH TLV-C: 0.1000 mg/m3 skin |
| > 20     | 100-51-6  | Benzyl Alcohol OSHA PEL: None established ACGIH TLV: None Established                                |
| < 10     | 98-54-4   | Paratertiarybutylphenol<br>OSHA PEL: None established<br>ACGIH TLV: None Established                 |
| < 4      | 1761-71-3 | 4,4 Methylenebiscyclohexanamine OSHA PEL: None established ACGIH TLV: 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.

## **Target Organs:**

• Eyes, skin and respiratory systems.

#### **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. EMERGENTY 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)

Lower Explosion Limit (LEL)

Auto ignition Temperature

Fire Hazard Classification (OSHA/NFPA)

No Data

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 confided 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 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: (H20 = 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. PERSONAL PROTECTION AND EXPOSURE

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 DataEnvironmental Fate:No DataAdditional 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/Trimethylhexamethylenediamine); 8; UN2735;

PG II

**IMO SHIPPING DATA:** Amine. Liquid. Corrosive. N.O.S. (Benzene-1, 3)

Dimethaneamine/Trimethylhexamethylenediamine); 8; UN2735; II; 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/Trimethylhexamethylenediamine); 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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