

**SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION**

**CAS Number:** 1675-54-3 (2,2 Bis(4'glycidyoxyphenyl) propane)  
**Product Name:** KER 828

**Revision Date:** Oct 20, 2020      **Date Printed:** Apr 09, 2021  
**Version:** 1.1      **Supersedes Date:** Apr 09, 2021

**Manufacturer's Name:** Thames River Chemical Corp.  
**Address:** 5230 Harvester Road Burlington, ON, CA, L7L 4X4  
**Emergency Phone:** CHEMTREC (800) 424-9300  
**Information Phone Number:** 905-681-5353  
**Fax:** 905-681-5377  
**Product/Recommended Uses:** For laboratory or industrial use only.

**SECTION 2) HAZARDS IDENTIFICATION****Classification**

Chronic aquatic toxicity - Category 3  
Eye Irritation - Category 2A  
Skin Irritation - Category 2  
Skin Sensitizer - Category 1

**Pictograms****Signal Word**

Warning

**Hazard Statements - Health**

Causes serious eye irritation  
Causes skin irritation  
May cause an allergic skin reaction

**Hazard Statements - Environmental**

Harmful to aquatic life with long lasting effects

**Precautionary Statements - General**

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.

**Precautionary Statements - Prevention**

Avoid release to the environment.  
Wash/Wash hands thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapors/spray.

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

**Precautionary Statements - Response**

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

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water and soap.

Specific treatment (see first-aid on the SDS).

Take off contaminated clothing. And wash it before reuse.

If skin irritation or a rash occurs: Get medical advice/attention.

**Precautionary Statements - Storage**

No precautionary statement available.

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local/national/international regulation. Waste management should be in full compliance with national, regional and local laws.

**Physical Hazards Not Otherwise Classified**

No data available.

**Health Hazards Not Otherwise Classified**

No data available.

**SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS**

| CAS          | Chemical Name                | % By Weight |
|--------------|------------------------------|-------------|
| 0001675-54-3 | BISPHENOL A DIGLYCIDYL ETHER | 100%        |

**SECTION 4) FIRST-AID MEASURES****Inhalation**

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

**Inhalation**

Get medical advice/attention if you feel unwell or are concerned.

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

Do not rub eyes.

**Skin Contact**

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash contaminated clothing before re-use or discard.

## Ingestion

Rinse mouth with water.

Please be advised by doctor whether induction of vomit is demanded or not.

## Most Important Symptoms and Effects, Both Acute and Delayed

No data available.

## SECTION 5) FIRE-FIGHTING MEASURES

### 5.2 Specific Hazards in Case of Fire

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

### Suitable Extinguishing Media

Dry chemical, foam or carbon dioxide.

### Unsuitable Extinguishing Media

Do not use water jet as an extinguisher, as this will spread the fire.

### Specific Hazards in Case of Fire

No data available.

### Fire-fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out. Move undamaged containers from immediate hazard area if it can be done safely.

### Special Protective Actions

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit. Keep containers cool with water spray.

Wear chemical resistant oversuit

In case of conflagration, use automatic fire sprinkler. Major fire may require withdrawal, allowing the object itself to burn.

Do not access if the tank on fire.

Use appropriate extinguishing measure suitable for surrounding fire.

Vapor or gas is burned at distant ignition sources can be spread quickly.

### 5.3 Advice for firefighters

Firefighters should wear NIOSH/MSHA approved self-contained, breathing apparatus and full protective clothing

## SECTION 6) ACCIDENTAL RELEASE MEASURES

### Emergency Procedure

Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ventilate closed spaces before entering.

### Recommended Equipment

Wear appropriate personal protective equipment.

### Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For information on personal protection equipment, see section 8. For information on waste disposal, see section 13.

Avoid breathing vapor or mist. Avoid contact with skin, eye or clothing.

Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

### Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. Dike far ahead of liquid spill for later disposal.

## Methods and Materials for Containment and Cleaning up

Large spill: Stay upwind and keep out of low areas. Dike for later disposal. Notify the central and local government if the emission reach the standard threshold.

Disposal of waste shall be in compliance with the Wastes control Act.

Appropriate container for disposal of spilled material collected.

Small Leak: sand or other non-combustible material, please let use absorption, wipe off the solvent, dike for later disposal.

## 6.3 Methods and Materials for Containment and Cleaning up

Absorb with an inert absorbent. Sweep up and place in an appropriate closed container (see Section7: Handling and Storage) Clean up residual material by washing area with water. Collect washing for disposal

For small spills add absorbent( soil may be used in the absence of other suitable materials) And use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

Pick up and arrange disposal. Keep in suitable, closed containers for disposal.

## SECTION 7) HANDLING AND STORAGE

### General

Since emptied containers retain product residue( vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied.

Avoid contact with incompatible materials.

Comply with all applicable laws and regulations for handling.

Refer to Engineering controls and personal protective equipment.

Do not inhale the steam prolonged or repeated.

Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited.

### Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits.

### Storage Room Requirements

Keep container closed.

Keep away from incompatible materials

Store in dry, cool areas, out of direct sunlight and away from other sources of heat.

### 7.1 Precautions for safe handling

Avoid direct or prolonged contact with skin and eyes.

DO NOT ALLOW TO FREEZE. If freezing occurs, thaw and remix before using. Frozen material may be thawed in a warm room.

DO NOT ALLOW TO FREEZE. If freezing occurs, thaw and remix before using. Frozen material may be thawed in a warm room.

Avoid localized overheating. Vent drums while heating.

Mix thoroughly to assure homogeneity.

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition.

Protect material from direct sunlight. Do not smoke.

All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Wear appropriate personal protective equipment

### 7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed containers. Store in an area that is dry, well-ventilated, away from incompatible materials( see Section 10. Stability and Reactivity)

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Avoid spark promoters. Eliminate sources of ignition. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.

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Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well ventilated place. Refrigeration recommended.

## SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

### Eye protection

Wear safety glasses with side shields

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

An emergency eye wash must be readily accessible to the work area.

### Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory Protection

Respiratory protection is ranked in order from minimum to maximum: Consider warning properties before use. Any chemical cartridge respirator with organic vapor cartridge. Any chemical cartridge respirator with a full facepiece and an organic vapor canister. For Unknown Concentration or Immediately Dangerous to life or health: Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-confined breathing apparatus with a full facepiece.

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.

### Appropriate Engineering Controls

Maintain air concentrations below occupational exposure levels and flammable limits. Use local explosion-proof exhaust ventilation for operations stoat produce a mist, vapour or fume.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

### 8.2 Exposure Controls

Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles.

An emergency eye wash must be readily accessible to the work area.

| Chemical Name          | CANsmg | CANsppm | CANtmg | CANtppm | OSHA STEL (mg/m3) | OSHA STEL (ppm) | OSHA TWA (mg/m3) | OSHA TWA (ppm) |
|------------------------|--------|---------|--------|---------|-------------------|-----------------|------------------|----------------|
| No applicable chemical | -      | -       | -      | -       | -                 | -               | -                | -              |

| Chemical Name          | OSHA Carcinogen | OSHA Tables (Z1, Z2, Z3) | OSHA Skin designation | ACGIH STEL (mg/m3) | ACGIH STEL (ppm) | ACGIH TWA (mg/m3) | ACGIH TWA (ppm) | ACGIH TLV Basis |
|------------------------|-----------------|--------------------------|-----------------------|--------------------|------------------|-------------------|-----------------|-----------------|
| No applicable chemical | -               | -                        | -                     | -                  | -                | -                 | -               | -               |

| Chemical Name          | ACGIH Carcinogen | ACGIH Notations |
|------------------------|------------------|-----------------|
| No applicable chemical | -                | -               |

## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

## Physical and Chemical Properties

|                        |                                           |
|------------------------|-------------------------------------------|
| Density                | 9.76 lb/gal                               |
| Specific Gravity       | 1.17                                      |
| Appearance             | Pale yellow viscous liquid                |
| Odor Description       | N/A                                       |
| Odor Threshold         | N/A                                       |
| pH                     | N/A                                       |
| Melting/Freezing Point | unapplied (liquid in room temperature)    |
| Low Boiling Point      | >200 °C                                   |
| High Boiling Point     | N/A                                       |
| Flash Point            | 259 °C                                    |
| Vapor Pressure         | <0.01 (at 20°C) Pa                        |
| Vapor Density          | 0.009 kg/m <sup>3</sup> at 23°C           |
| Evaporation Rate       | N/A                                       |
| Upper Explosion Level  | N/A                                       |
| Lower Explosion Level  | N/A                                       |
| Water Solubility       | N/A                                       |
| Coefficient Water/Oil  | log Pow > 3 (n-octanol / Water standard ) |
| Viscosity              | 12-14 Pa-s (at 25°C)                      |

## SECTION 10) STABILITY AND REACTIVITY

### Stability

Stable under normal storage and handling conditions.

### Conditions to Avoid

Heat, flames and sparks.

Avoid contact with incompatible materials.

### Hazardous Reactions/Polymerization

Hazardous polymerization will not occur.

### Incompatible Materials

No Data Available

### Hazardous Decomposition Products

May emit flammable vapour if involved in fire.

## SECTION 11) TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Not listed as carcinogenic according to IARC, NTP or OSHA.

### Acute Toxicity

Eye- eye irritation,, rabbit. Moderately irritating. Skin- skin irritation, rabbit. Slightly irritating. Oral LD50(rat)=>5000

Titanium Oxide (TiO<sub>2</sub>): Inhalation-LC50> 6.82 mg/l (rat), Dermal-LD50 > 10,000mg/kg (Rabbit), Oral-LD50 >5,000 mg/kg (rat)

Ethanol,2-butoxy- Dermal- LD50: 99mg/kg (Rabbit), Dermal- LD50: 150mg/kg (rat), Oral- LD50: 1167mg/kg (mouse, Oral- LD50:

320mg/kg (Rabbit)

2-Propanol,1-methoxy-,2-acetate- Inhalation- LC50: >23.5mg/l (rat), Dermal- LD50 >5,000mg/kg (rabbit), Oral-LD50 >6,190mg/kg (Rat)

Based on available data, the classification criteria are not met.

#### Aspiration Hazard

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Germ Cell Mutagenicity

Not listed for the ingredients with the exception of the following additional information:  
13463-67-7: Titanium oxide(TiO<sub>2</sub>) - Hamster lungs DNA inhibition, hamster ovary sister chromatid exchange.

Based on available data, the classification criteria are not met.

#### Reproductive Toxicity

Based on available data, the classification criteria are not met.

#### Respiratory/Skin Sensitization

May cause an allergic skin reaction

#### Serious Eye Damage/Irritation

Causes serious eye irritation

#### Skin Corrosion/Irritation

Causes skin irritation

#### Specific Target Organ Toxicity - Repeated Exposure

Based on available data, the classification criteria are not met.

#### Specific Target Organ Toxicity - Single Exposure

Based on available data, the classification criteria are not met.

#### Likely Routes of Exposure

Inhalation, Ingestion, Skin contact, Eye contact

## SECTION 12) ECOLOGICAL INFORMATION

#### Toxicity

Titanium Oxide(TiO<sub>2</sub>): ErC50>100mg/l-72hr (green algae), EC50> 100mg/l-48hr (water flea), LC50>10,000mg/l-48hr (flathead minnow)

Ethanol,2-butoxy: EC50>1,000mg/l-48hr (daphnia magna), LC50-1,490mg/l-96hr (Iepomis macrochirus)

2-Propanol, 1-methoxy-, 2-acetate: EC50>1,000MG/L-72hr (Selenastrum capricomutum), EC50>500mg/l-48hr (daphnia magna, EC50 96h > 1,000mg/l (Selenastrum capricomutum), LC50 14d,6.5 mg/l (Oryzia latipes), LC50 161mg/l-96hr (Pimephales promelas)

Harmful to aquatic life with long lasting effects

#### Toxicity

Urea: Acute EC50 6573.1 mg/l Fresh water (Crustaceans-Ceriodaphniadubia- Neonate -48 hours, Acute EC503910000 mg/l Fresh water (Daphnia-Daphnia magna-Neonate) -48 hours, Acute LC50 22.5 ppt Fresh Water (Fish-Oreochromis) - 96 hours

#### Persistence and degradability

This product is biodegradable

#### Mobility in Soil

Not volatile, Insoluble in water

#### Bioaccumulative Potential

93% (29d) Method: OECD 301D The product is readily biodegradable according to OECD criteria

Urea: LogPow < -1.73 (Potential low)

### Bioaccumulative Potential

Non bioaccumulation or bio-magnification identified.

### Persistence and Degradability

Product is persistent and non- biodegradable but is unlikely to have any long term effect on the environment.

### Other Adverse Effects

No data available.

## SECTION 13) DISPOSAL CONSIDERATIONS

### Waste Disposal

Ontario Class 211 -Aromatic solvents and residues

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, provincial and local laws.

## SECTION 14) TRANSPORT INFORMATION

|                                                            | Transport Canada Information | U.S. DOT Information |
|------------------------------------------------------------|------------------------------|----------------------|
| UN number:                                                 | Not Regulated                | Not Regulated        |
| Proper shipping name:                                      | N/A                          | N/A                  |
| Hazard class:                                              | Not Applicable               | Not Applicable       |
| Packaging group:                                           | Not Applicable               | Not Applicable       |
| Hazardous substance (RQ):                                  |                              | No Data Available    |
| Marine Pollutant:                                          | No Data Available            | No Data Available    |
| Note / Special Provision:                                  | No Data Available            | No Data Available    |
| Toxic-Inhalation Hazard:                                   |                              | No Data Available    |
| Transport in bulk (according to Annex II of MARPOL 73/78): | No Data Available            |                      |

## SECTION 15) REGULATORY INFORMATION

| CAS          | Chemical Name                | % By Weight | Regulation List                                  |
|--------------|------------------------------|-------------|--------------------------------------------------|
| 0001675-54-3 | BISPHENOL A DIGLYCIDYL ETHER | 100%        | DSL,TSCA,EU_EC_Inventory - European_EC_Inventory |

## SECTION 16) OTHER INFORMATION



## Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CANsmg or CANspmm - Canadian Short Term Exposure Level in mg/L or in ppm; CANtmg or CANtppm - Canadian Time Weighted Average in mg/L or in ppm; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center(US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

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### Version 1.0:

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First Edition.

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