



## Section 1. Product and Company Identification

**Product Name** Glyceryl Tribenzoate  
**CAS Number** 614-33-5

**Parchem - fine & specialty chemicals**

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**EMERGENCY RESPONSE NUMBER**

CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

## Section 2. Hazards Identification

**Classification of the substance or mixture**

Not classified as a hazardous substance or mixture

**GHS Label Elements**

**Pictograms:** N/A

**Signal word:** N/A

**Hazard and precautionary statements**

None

## Section 3. Composition / Information on Ingredients

**Common Name** Glyceryl Tribenzoate  
**Synonym(s)** 1,2,3-Propanetriol-1,2,3-Tribenzoate  
**CAS Number** 614-33-5

COMPONENT	CAS NUMBER	CONCENTRATION
Glyceryl Tribenzoate	614-33-5	> 98%

## Section 4. First Aid Measures

**Description of first-aid measures**

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration, or oxygen by a trained professional, using a pocket type respirator.

**Skin contact:** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion:** Wash out mouth with water. 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. 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 severe. 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:** May cause mechanical irritation (abrasion).

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** May cause mechanical irritation (abrasion).

**Ingestion:** No known significant effects or critical hazards.

#### **Over-exposure signs/symptoms**

**Eye contact:** No specific data.

**Inhalation:** No specific data.

**Skin contact:** No specific data.

**Ingestion:** No specific data.

#### **Potential Chronic Health Effects**

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

**Notes to physician:** Treat symptomatically. No specific treatment.

**Protection of first-aiders:** No special measures required.

### **Section 5. Firefighting Measures**

#### **Extinguishing media**

**Suitable extinguishing media:** In case of fire, use water spray (fog), foam, dry chemicals, CO<sub>2</sub>, sand.

**Unsuitable extinguishing media:** Do not use water jet.

**Specific hazards arising from the chemical:** Treat as burning oil. Fine dust clouds may form explosive mixtures with air.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: Carbon Dioxide; Carbon Monoxide

**Special protective actions for firefighters:** 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.



**Special protective equipment for firefighters:** Firefighters should wear appropriate protective equipment and self-contained breathing equipment for fire-fighters apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. 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).

**Methods and materials for containment and cleaning up:** Remove product layered on water by mechanical means. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Remove mechanically by a method that minimizes the generation of airborne dust (vacuum cleaner, wet mopping, etc.) Ensure vacuum cleaners are approved for explosive dusts. Prevent entry into sewers, water courses, basements or confined areas.

#### Section 7. Handling and Storage

##### Precautions for safe handling

**Protective measures:** Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Use non-sparking tools and equipment. Consult National Fire Protection Association (NFPA) 654 Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids for details on the safe handling and equipment design.

**Conditions for Safe Storage:** Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers retain product residue and can be hazardous. Do not reuse container. Minimize dust generation and accumulation, especially on elevated surfaces (e.g., roof beams and trusses, ventilation ducts, wall sills). A dust layer just 1/32nd of an inch (0.793 mm) deep on elevated surfaces may create a dust cloud explosion hazard.

#### Section 8. Exposure Controls / Personal Protection

**Occupational exposure limits:** No exposure limit value known.

**Appropriate engineering controls:** Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor, or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### Personal protection

**Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Respiratory protection:** Although no exposure limit has been established for this product, the OSHA PEL for Particulates Not Otherwise Regulated (PNOR) of 15 mg/m<sup>3</sup>- total dust, 5 mg/m<sup>3</sup>- respirable fraction is recommended. In addition, the ACGIH recommends 3 mg/m<sup>3</sup>- respirable particles and 10 mg/m<sup>3</sup>- inhalable particles for Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS). NIOSH approved, air-purifying particulate respirator with N-95 filters.

**Skin protection:** Gloves. Wear cloth work clothing including long pants and long-sleeved shirts.

**Eye/face protection:** safety glasses with side-shields

**Medical Surveillance:** Not available

#### Section 9. Physical and Chemical Properties

**Physical State:** Solid

**Color:** Off-white

**Odor:** Mild

**Odor Threshold:** Not available

**pH:** Not available

**Boiling point:** 150°C (1013 hPa)

**Melting point:** 70°C (158°F)

**Flash point (Open Cup):** 232°C (449.6°F)

**Evaporation rate:** Not available  
**Explosion limits:** Not available  
**Vapor pressure (150°C):** 0.01 hPa  
**Specific gravity (Relative Density):** 1.26  
**Solubility:** Insoluble in the following materials: Cold water  
**Partition coefficient (n-Octanol/Water):** Not available  
**Vapor density:** Not available  
**Viscosity:** Not available  
**Auto-ignition temperature:** Not available  
**Decomposition temperature:** Not available

#### Section 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  
**Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.  
**Conditions to avoid:** Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.  
**Incompatible materials:** Reactive or incompatible with the following materials: Oxidizing materials  
**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### Section 11. Toxicological Information

**Information on the likely routes of exposure:** Dermal contact. Eye contact. Inhalation. Ingestion.

##### Potential acute health effects

**Eye contact:** May cause mechanical irritation (abrasion).  
**Inhalation:** No known significant effects or critical hazards.  
**Skin contact:** May cause mechanical irritation (abrasion).  
**Ingestion:** No known significant effects or critical hazards.

##### Symptoms related to the physical, chemical, and toxicological characteristics

**Eye contact:** No specific data.  
**Inhalation:** No specific data.  
**Skin contact:** No specific data.  
**Ingestion:** No specific data.

**Potential chronic health effects**

**Short term exposure**

**Potential immediate effects:** Not available

**Long term exposure**

**Potential delayed effects:** Not available

**General:** Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

**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.

**Information on toxicological effects**

**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure	Test
1,2,3-Propanetriol-1,2,3-Tribenzoate	LD50 Oral	Rat - Male	> 5000 mg/kg	-	-

**Carcinogenicity**

**Product/Ingredient Name:** 1,2,3-Propanetriol-1,2,3-Tribenzoate (CAS# 614-33-5)

**IARC:** Not classified

**NTP:** Not classified

**OSHA:** Not classified

Section 12. Ecological Information

**Toxicity**

**Conclusion/Summary:** Not available.

**Persistence and Degradability**

**Conclusion/Summary:** Not available.

**Bioaccumulative Potential:** Not available.

**Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available.

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



Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**DOT Classification:** Not regulated

**IMDG Class:** Not regulated

**IATA-DGR Class:** Not regulated

Section 15. Regulatory Information

**SARA 311/312:** Fire Hazard

**SARA Title III Section 302 Extremely Hazardous Substances:** None

**SARA Title III Section 313 Toxic Chemicals:** None

**US EPA CERCLA Hazardous Substances (40 CFR 302.4):** None

**State Regulations:** The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Ingredient Name	CAS Number	State Code	Concentration
1,2,3-Propanetriol-1,2,3-tribenzoate	614-33-5	-	> 98%
Impurities	-	-	< 2%

**Massachusetts Substances:** MA-S

**Massachusetts Extraordinary Hazardous Substances:** MA- Extra HS

**New Jersey Hazardous Substances:** NJ - HS

**Pennsylvania RTK Hazardous Substances:** PA- RTK HS

**Pennsylvania Special Hazardous Substances:** PA- Special HS

**California Prop. 65:** To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects, or other reproductive harm.

**US Toxic Substances Control Act:** Listed on the TSCA Inventory.

**HMIS Rating**

**Health:** 1

**Flammability:** 1

**Reactivity:** 0



**NFPA Rating**

**Health:** 1

**Flammability:** 1

**Reactivity:** 0

Section 16. Other Information
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**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 3/7/2016

