



Section 1. Product and Company Identification

Product Name Pentaerythritol Tetratallate
CAS Number 68334-18-9; 68188-27-2

Parchem - fine & specialty chemicals

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CHEMTEL

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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

OSHA/HCS Status: This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification according to Regulation (EC) No 1272/2008 [CLP]

Physical Hazard: No classification.

Human Health Hazard: No classification.

Environmental Hazard: No classification.

Classification according to Directive 67/548/EEC [DSD]: This product is not classified as dangerous according to Directive 67/548/EEC and its amendments.

GHS Label Elements

Pictograms: N/A

Signal word: N/A

Hazard and precautionary statements

None

General Information: Do not handle until all safety precautions have been read and understood. Wear eye protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep container tightly closed when not in use. Dispose of in accordance with all applicable laws and regulations.

Routes of entry: Skin contact. Eye Contact. Inhalation. Ingestion.

To our knowledge, there are no additional ingredients present in this product that are classified as hazardous to health or the environment that might require reporting in this section.



Section 3. Composition / Information on Ingredients

Common Name Pentaerythritol Tetratallate
Synonym(s) Tall oil fatty acids, pentaerythritol ester; Pentaerythritol tetra tallate
CAS Number 68334-18-9; 68188-27-2

COMPONENT	CAS NUMBER	CONCENTRATION
Fatty acids, tall-oil, tetraesters with pentaerythritol	68334-18-9	50 – 53%
Fatty acids, tall-oil, esters with pentaerythritol	68188-27-2	47 – 50%

Section 4. First Aid Measures

Description of first-aid measures

Inhalation: Remove source of contamination or have victim move to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as collar, tie, belt, or waistband. Get medical attention immediately.

Skin Contact: Remove contaminated clothing and shoes. Launder clothing before reuse. Wash thoroughly with soap and water.

Eye Contact: Check for and remove any contact lenses. Flush with water for at least 15 minutes. Obtain medical attention if necessary.

Ingestion: Not anticipated if used as intended but in large quantities may cause gastrointestinal upset. If swallowed, do not induce vomiting. Rinse mouth, drink plenty of water. Obtain medical attention if necessary. Never give anything by mouth to an unconscious person.

Protection of first-aiders: 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.

Most important symptoms & effects, acute & delayed: Long term contact with skin may lead to dermatitis. No other significant effects or critical hazards. Indication of immediate medical attention and special treatment needed

Medical conditions generally aggravated by over-exposure: Inhalation of vapors or mist may exacerbate symptoms in people with asthma or other pulmonary diseases.

Notes to physician: Treat symptomatically. Contact poison control immediately if large amounts have been ingested or inhaled. Contact poison control if large quantities have been ingested or inhaled. Excessive inhalation of oil mist may affect the respiratory system. Oil mist is classified as a nuisance particulate by ACGIH.

Specific treatment: No specific treatment.



Section 5. Firefighting Measures

Flammability of the product: Will burn if flame is applied to material heated above 525°F/274°C. (Cleveland Open Cup) Closed containers may burst under pressure and create greater risk of fire. Treat as oil fire.

Extinguishing media

Suitable extinguishing media: Sand, Dry chemical CO₂, Foam, Water fog

Unsuitable extinguishing media: Not available

Special fire-fighting procedures: NIOSH/MSH, approved, self-contained, pressure demand respirator recommended. Treat as oil fire. Do not spray water directly onto fire, which will cause frothing and eject burning material. Use water spray to cool area and to protect personnel.

Unusual Fire & Explosion: Vapors are heavier than air and may travel to source of ignition. Do not pressurize, cut, weld, braze empty Hazards drum which may contain ignitable residue.

Specific hazard arising from the substance: Thermal decomposition may emit toxic fumes of carbon dioxide, carbon monoxide & smoke.

Section 6. Accidental Release Measures

Personal Precautions, protective equipment, and emergency procedures

For non-emergency personnel: No action shall be taken by any personnel that have not received training. Put on appropriate personal protective equipment (see Section 8). Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator if ventilation is inadequate. Keep unnecessary and unprotected personnel from entering the area of the spill.

For emergency responders: Use suitable protective equipment.

Environmental precautions: Avoid dispersal of spilled material. Do not allow contact with waterways, drains, sewers or soil. Report spill to authorities if product has caused environmental pollution by entering sewers, waterways, or soil.

Small spills: Add solid adsorbent, transfer spilled material and adsorbent to appropriate disposable container. Dispose of waste according to local and federal regulations. Remove residue with detergent and water.

Large spill: Contain spill and stop leak at source. Eliminate any source of ignition. Prevent from contaminating potable water source. Squeegee or pump off into covered container or use adsorbent (eg. sand, earth, vermiculite, diatomaceous earth) to collect spilled material. May cause floors to become slippery and present a falling hazard. Contaminated adsorbent may pose the same hazard as the spilled product. Dispose of waste according to local and federal regulations.

Handle in accordance with good industrial hygiene and safety practices. Recovery and reuse should always be a goal where possible.



Section 7. Handling and Storage

Precautions for safe handling

Practices to Minimize Risk: Wear appropriate protective equipment when performing maintenance on contaminated equipment. Wash hands thoroughly before eating or smoking after handling this material. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Keep away from heat, sources of ignition, and oxidizing or incompatible materials. Avoid spills and keep away from drains. Prevent generation of aerosols or vapors.

Conditions for safe storage, including any incompatibilities

Storage Precautions & Recommendations: Store between 40 - 90°F in the original container protected from sunlight in a dry area. Ensure thorough ventilation of stores and work areas. Keep away from heat, sparks, and flame. Keep container closed when not in use. Should be periodically inspected. Do not reuse empty containers that have not been cleaned of this material. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leaks.

Dangerous Incompatibility Reactions: Incompatible with oxidizing materials. Prevent electrostatic discharges. Keep away from sources of ignition.

Incompatibilities with Materials of Construction: Unknown

Section 8. Exposure Controls / Personal Protection

Exposure Limits: None established.

Engineering controls: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

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 work period. Launder contaminated clothing before reusing. Ensure eyewash stations and safety showers are present near work stations.

Personal protective equipment

Respiratory: Respiratory protection in case of vapor/aerosol release.

Eye: Wear safety glasses meeting the specifications of OSHA 29CFR 1910.133/ANSI Standard Z87.1 where no contact with the eyes is anticipated. Chemical safety goggle meeting the specifications if OSHA 29CFR 1910.133/ANSI Standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes.

Hands: Neoprene or chemical resistant gloves recommended for handling this product.

Skin: Moderate protective clothing according to the task being performed by the employee.

Environmental exposure controls: Fume scrubbers, filters, or process engineering modifications that concern vapors or fumes should be compliant with environmental protection legislation and OSHA requirements.

Section 9. Physical and Chemical Properties

Appearance: Amber to dark amber fluid
Boiling point: Not determined
Odor: Mild characteristic tall oil odor
Flash point (COC): 274°C (525°F)
Physical state: Liquid
Melting/freezing point: Not determined
Vapor pressure (mmHg): Not determined
Evaporation rate: Not determined
Vapor density (AIR = 1): Not determined
Partition coefficient: Not determined
Specific Gravity (H₂O = 1): 0.925 @ 60°F (n-Octanol/water)
pH (as supplied): Not determined
Autoignition temperature: Not determined
Solubility in water: Negligible
Viscosity (100°F/38°C): 400 - 500 SUS
Molecular weight: Mixture (Saybolt Viscometer)
Decomposition temperature: Not determined
Oxidizing properties: Not an oxidizer
Explosive properties: Not explosive
Other information: No additional information.

Section 10. Stability and Reactivity

Reactivity: None known
Chemical stability: Product is stable.
Conditions to avoid: Stable at ambient temperatures. No other specific data.
Incompatible materials: Avoid oxidizers.
Hazardous decomposition products: Under normal conditions of storage or use, hazardous decomposition products should not be produced. Carbon monoxide and smoke can be generated during combustion.
Hazardous polymerization: Does not occur

Section 11. Toxicological Information

Toxicological Information: When used and handled according to specifications, the product does not have any lasting harmful effects according to our experience and the information provided to us.

Likely routes of exposure

Skin exposure: Oil mist or splashing

Eye contact: Oil mist or splashing, vapors or fumes from heated product.



Inhalation exposure: Oil mist, vapors or fumes from heated product.

Ingestion exposure: Not likely when used as intended.

Symptoms related to the physical, chemical and toxicological characteristics

Skin contact: Skin irritation may occur. Drying of the skin may occur. Cracking of the skin may occur.

Eye contact: Irritation may occur. Tearing may occur. Temporary redness may occur.

Inhalation: Mild irritation of the respiratory tract.

Ingestion: May produce gastrointestinal distress.

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

Skin contact: May cause dermatitis after long term exposure.

Eye contact: No data available.

Inhalation: No data available.

Ingestion: No data available.

Numerical measures of toxicity

Skin LD50: No data available.

Oral LD50: No data available.

Inhalation LD50: No data available.

Skin primary irritation: No data available.

Eye primary irritation: No data available.

Carcinogenicity

OSHA: Not listed

NIOSH: Not listed

International Agency for: Not listed

Research on Cancer

National Toxicology Program: Not listed

Other toxicological information

Reproductive toxicity: Not listed

Germ cell mutagenicity: No data available.

Respiratory or skin sensitization: No data available

Specific target organ toxicity

Single exposure: No data available.

Repeated exposure: No data available.

Aspiration hazard: No data available

No specific data available. Please refer to Section 2 for available information on potential health effects.



Section 12. Ecological Information

Ecotoxicity aquatic: No data available
Fish LC50: No data available
Daphnia EC50: No data available
Rotifer EC50: No data available
Algae EC50: No data available
Ecotoxicity terrestrial: No data available
Mobility in soil: No data available.

Persistence and Degradability

Water: Negligible solubility in water.
Soil: This product is readily biodegradable.
Air: No data available

Bio accumulative potential

Log Kow: Not expected to bio accumulate

Results of PBT and vPvB assessment

PBT and vPvB assessment: No data available
Other Adverse Effects: No specific data available concerning ecological impact of this product. Based on literature data concerning the raw ingredients of this product, acute toxicity to fish, aquatic invertebrate, and aquatic plants can be expected. It is likely to be a mild water surface pollutant. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting.

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

D.O.T. Emergency Phone Number: (562) 693-0872
US DOT Hazard Shipping Class: Not regulated
D.O.T. Labels/Placards Required: No
UN number: None
UN proper shipping name: None

Transport Hazard class

Hazard class: None
Hazard label: None
Hazard pictogram: None



Packing group: None

Environmental Hazards

Marine pollutant: None

Transport in bulk

US DOT: Not regulated

IMDG: Not regulated

IATA: Not regulated

MARPOL 73/78: Not regulated

IBC code: Not regulated

Special precautions for user

Special precautions: No additional information available

Section 15. Regulatory Information

U.S. Federal regulations

TSCA 8(a) IUR Exempt/Partial Exemption: Not determined

United States Inventory (TSCA8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning notification: No products were found.

SARA 320/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

State regulations

Massachusetts: No products listed

New York: No products listed

New Jersey: No products listed

Pennsylvania: No products listed

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
68334-18-9	No	No
68188-27-2	No	No

Chemical Inventories

USA: The components of this substance are listed on TSCA.

Australia: The components of this substance are listed on the Australian Inventory of Chemical Substances (AICS)



Canada: The components of this substance are specified on the Canadian Domestic Substance List (DSL). Not listed on the Non-Domestic Substance List (NDSL).

China: The components of this substance are listed on the Chinese Chemical Inventory of Existing Chemical Substances (CIECS)

Europe: The components of this substance are listed on the European EINECS/ELINCS.

Japan: The components of this substance are not listed on the Existing and New Chemical Substances List.

Korea: The components of this substance are listed on the Korean Existing Chemicals List (KECI)

New Zealand: The components of this substance are listed on the New Zealand Inventory of Chemicals (NZIoC)

Philippines: The components of this substance are not listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

NFPA Rating

Health: 0

Flammability: 1

Reactivity: 0

HMIS Rating

Health: 0

Flammability: 1

Reactivity: 0

Personal Protection: A

Section 16. Other Information

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.

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