

Section 1. Product and Company Identification

Product Name	Terephthalic acid		
CAS Number	100-21-0		

Parchem - fine & specialty chemicals	EMERGENCY RESPONSE NUMBER	
415 Huguenot Street	CHEMTEL Toll Free US & Canada: 1 (800) 255-3924	
New Rochelle, NY 10801		
) (914) 654-6800 🕝 (914) 654-6899	All other Origins: 1 (813) 248-0585	
parchem.com info@parchem.com	Collect Calls Accepted	

Section 2. Hazards Identification

Classification of the substance or mixture

Not a hazardous substance or mixture.

Hazard and precautionary statements

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

Section 3. Composition	n / Inform	ation on Ingredients			
Common Name	Terephthalic acid				
Synonym(s)	Benzen	e-1,4-dicarboxylic acid			
Formula	C ₈ H ₆ O				
CAS Number	Number 100-21-0				
COMPONENT		CAS NUMBER	CONCENTRATION		
Terephthalic ac	id	100-21-0	90 - 100%		

Section 4. First Aid Measures

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. **In case of skin contact:** Wash off with soap and plenty of water.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. **Indication of any immediate medical attention and special treatment needed:** No data available

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon



dioxide.

Special hazards arising from the substance or mixture: No data available Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary. Further information: No data available

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental precautions: No special environmental precautions required.

Methods and materials for containment and cleaning up: Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Precautions for safe handling: Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

Section 8. Exposure Controls / Personal Protection

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Component	Cas-No.	Value	Control Parameters	Basis
Terephthalic acid	100-21-0	TWA	10.000000 mg/m ³	USA. ACGIH
				Threshold Limit Values
				(TLV)
		TWA	10 mg/m ³	USA. ACGIH
				Threshold Limit Values
	ne a	SDE	CIGITY CIT	(TLV)
		PEL	10 mg/m ³	California permissible
				exposure limits for
				chemical contaminants
				(Title 8, Article 107)

Exposure controls

Appropriate engineering controls: General industrial hygiene practice.

Personal protective equipment

Eye/face protection: Use equipment for eye protection tested and approved under appropriate



government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. 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 not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: No special environmental precautions required.

Section 9. Physical and Chemical Properties

Form: powder Color: white Odor: No data available Odor Threshold: No data available pH: No data available Melting point/freezing point: Melting point/range: > 300 °C (> 572 °F) Initial boiling point and boiling range: No data available Flash point: No data available Evaporation rate: No data available Flammability (solid, gas): No data available Upper/lower flammability or explosive limits: No data available Vapor pressure: < 0.01 hPa (< 0.01 mmHg) at 20°C (68°F) Vapor density: No data available



Relative density: 1.58 g/cm3 at 25°C (77°F) Water solubility: ca.0.017 g/l at 25°C (77°F) - slightly soluble Partition coefficient n-octanol/water: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity: No data available Explosive properties: No data available Oxidizing properties: No data available Other safety information: No data available

Section 10. Stability and Reactivity

Reactivity: No data available Chemical stability: Stable under recommended storage conditions. Possibility of hazardous reactions: No data available Conditions to avoid: No data available Incompatible materials: Strong oxidizing agents Hazardous decomposition products formed under fire conditions: Carbon oxides Other decomposition products: No data available

Section 11. Toxicological Information

Acute toxicity

LD50: Oral - Rat - male and female - > 15,380 mg/kg (OECD Test Guideline 401) **LC50:** Inhalation - Rat - male and female - 2 h - > 2.02 mg/l (OECD Test Guideline 403) **LD50:** Dermal - Rabbit - male and female - > 2,000 mg/kg (OECD Test Guideline 402)

Skin corrosion/irritation

Skin: Rabbit **Result:** No skin irritation - 24 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes: Rabbit **Result:** No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitization: No data available

Germ cell mutagenicity Ames test: S. typhimurium Result: negative

Mutagenicity (micronucleus test)

Mouse: male and female **Result:** negative



Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available Specific target organ toxicity - single exposure: No data available Specific target organ toxicity - repeated exposure: No data available Aspiration hazard: No data available

Additional Information RTECS: WZ0875000

Section 12. Ecological Information

Toxicity

Toxicity to fish: semi-static test LC50 - Oryzias latipes - > 18.6 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates: Immobilization EC50 - Daphnia magna (Water flea) -> 20.1 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae: Growth inhibition EC50 - Pseudokirchneriella subcapitata (green algae) - > 19 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria: Respiration inhibition EC50 - Sludge Treatment - 1,393 mg/l - 3 h (OECD Test Guideline 209)

Persistence and degradability

Biodegradability: aerobic - Exposure time 14 d **Result:** 85.2 % - Readily biodegradable. (OECD Test Guideline 301B)

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: No data available

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 (US): Not dangerous goods **IMDG:** Not dangerous goods **IATA:** Not dangerous goods

Section 15. Regulatory Information

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: No SARA Hazards

Massachusetts Right To Know Components: Terephthalic acid CAS-No. 100-21-0 Revision Date 1993-04-24

Pennsylvania Right To Know Components: Terephthalic acid CAS-No. 100-21-0 Revision Date 1993-04-24

New Jersey Right To Know Components: Terephthalic acid CAS-No. 100-21-0 Revision Date 1993-04-24

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

- HMIS Rating Health hazard: 0 Flammability: 0 Physical Hazard: 0
- NFPA Rating Health hazard: 0 Fire Hazard: 0 Reactivity Hazard: 0

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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