

Section 1. Product and Company Identification

Product Name Phthalic Acid
CAS Number 88-99-3

Parchem - fine & specialty chemicals
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EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

OSHA Haz Com: CFR 1910.1200

Skin Corrosion/Irritation [Category 2]

Eye Damage/Irritation [Category 2A]

Hazards not otherwise classified: [HNOC] May be harmful if swallowed.

GHS Label Elements

Pictograms:



Signal word: WARNING

Hazard and precautionary statements

Hazard Statement(s):

Causes serious eye irritation

Causes skin irritation

Precautionary Statement(s):

[Prevention] Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection.

[Response]

If on skin: Wash with plenty of water.

If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

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 or attention.

[Storage] None

[Disposal] None

Section 3. Composition / Information on Ingredients

Common Name Phthalic Acid
Synonym(s) Benzene-1,2-dicarboxylic Acid
Formula $C_8H_6O_4$
CAS Number 88-99-3

COMPONENT	CAS NUMBER	CONCENTRATION
Phthalic Acid	88-99-3	> 99.0% (GC) (T)

Section 4. First Aid Measures

Inhalation: Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Skin contact: If skin irritation occurs get medical advice/attention. Remove and wash contaminated clothing before reuse. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Eye contact: IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Ingestion: Do not induce vomiting without medical advice. If swallowed, seek medical advice immediately and show the container or label. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Symptoms/effects:

Acute: Redness

Delayed: No data available

Immediate medical attention: If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Section 5. Firefighting Measures



Suitable extinguishing media: Dry chemical, CO₂, sand, earth, water spray or regular foam
Consult with local fire authorities before attempting large scale firefighting operations.

Specific hazards arising from the chemical

Hazardous combustion products: These products include: Carbon oxides

Other specific hazards: Closed containers may explode from heat of a fire.

Special precautions for fire-fighters: Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. Containers may explode when heated. Move containers from fire area if you can do it without risk.

Special protective equipment for fire-fighters: Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Section 6. Accidental Release Measures

Personal precautions: Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Personal protective equipment: Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).

Emergency procedures: Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

Methods and materials for containment and cleaning up: ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

Section 7. Handling and Storage

Precautions for safe handling: Avoid inhalation of vapor or mist. Avoid contact with skin and eyes. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.

Conditions for safe storage: Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods.



Storage incompatibilities: Store away from oxidizing agents

Section 8. Exposure Controls / Personal Protection

Exposure limits: No data available

Appropriate engineering controls: Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/ laboratory practices when handling any chemical.

Personal protective equipment

Respiratory protection: Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Hand protection: Nitrile gloves.

Eye protection: Safety glasses.

Skin and body protection: Lab coat.

Section 9. Physical and Chemical Properties

Physical state (20°C): Solid

Form: Crystal - Powder

Color: White

Odor: No data available

Odor threshold: No data available

Melting point/freezing point: 210°C (410°F)

Boiling point/range: No data available

Decomposition temperature: No data available

Relative density: No data available

Kinematic Viscosity: No data available

Partition coefficient n-octanol/water (log P_{ow}): 0.73

Flash point: 168°C (334°F)

Flammability (solid, gas): No data available

pH: No data available

Vapor pressure: 1.03x10⁻⁵Pa /25°C

Vapor density: 5.73

Dynamic Viscosity: No data available

Evaporation rate (Butyl Acetate = 1): No data available

Autoignition temperature: No data available

Flammability or explosive limits

Lower: No data available

Upper: No data available

Solubility(ies)



Water: Very slightly soluble (0.57g/100mL, 20°C)

Soluble: Methanol, Ethanol

Very slightly soluble: Ether

Insoluble: Chloroform

Section 10. Stability and Reactivity

Reactivity: Not Available.

Chemical Stability: Stable under recommended storage conditions. (See Section 7)

Possibility of Hazardous Reactions: No hazardous reactivity has been reported.

Conditions to avoid: Avoid excessive heat and light.

Incompatible materials: Oxidizing agents

Hazardous Decomposition Products: No data available

Section 11. Toxicological Information

RTECS Number: TH9625000

Acute Toxicity

orl-mus LD50:2530 mg/kg

ipr-mus LD50:550 mg/kg

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity:

dlt-mus-ipr 200 mg/kg/5D-C

spm-mus-ipr 100 mg/kg

Carcinogenicity: No data available

IARC: No data available

NTP: No data available

OSHA: No data available

Reproductive toxicity

orl-rat TDLo: 29810 mg/kg(7-16D preg)

Routes of Exposure: Inhalation, Eye contact, Ingestion, Skin contact.

Symptoms related to exposure: Skin contact may result in inflammation; Characterized by itching, scaling, reddening, or occasionally blistering. Skin contact may result in redness, pain or dry skin. Eye contact may result in redness or pain. Overexposure may result in serious illness or death.

Potential Health Effects: Skin and eye contact may result in irritation. May be harmful if inhaled



or ingested. Overexposure may result in serious illness or death.

Target organ(s): No data available

Section 12. Ecological Information

Ecotoxicity

Fish: 48h LC50:>1000 mg/L (Oryzias latipes)

Crustacea: No data available

Algae: No data available

Persistence and degradability: No data available

Bioaccumulative potential (BCF): 3

Mobility in soil: No data available

Partition coefficient n-octanol/water (log Pow): 0.73

Soil adsorption (Koc): 2 - 31

Henry's Law constant (PaM³/mol): 2.1 x 10⁻⁶

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): Non-hazardous for transportation.

IATA: Non-hazardous for transportation.

IMDG: Non-hazardous for transportation.

Section 15. Regulatory Information

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313: Not Listed

SARA 302: Not Listed

State Regulations

State Right-to-Know

Massachusetts Not Listed

New Jersey Not Listed

Pennsylvania Not Listed

California Proposition 65: Not Listed



Other Information

NFPA Rating

Health: 2

Flammability: 1

Instability: 0

HMIS Classification

Health: 2

Flammability: 1

Instability: 0

International Inventories

WHMIS hazard class: D2B: Materials causing other toxic effects. (Toxic)

Canada DSL: On DSL

EC-No: 201-873-2

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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