



Section 1. Product and Company Identification

Product Name Sodium Perborate Tetrahydrate
CAS Number 10486-00-7

Parchem - fine & specialty chemicals

415 Huguenot Street

New Rochelle, NY 10801

 **(914) 654-6800**  **(914) 654-6899**

 **parchem.com**

 **info@parchem.com**

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

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS)

Oxidizing solids (Category 2), H272

Acute toxicity, Oral (Category 4), H302

Serious eye damage (Category 1), H318

Reproductive toxicity (Category 1B), H360

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Acute aquatic toxicity (Category 3), H402

GHS Label Elements

Pictograms:



Signal word: Sodium Perborate Tetrahydrate

Hazard and precautionary statements

Hazard Statements

H272 May intensify fire; oxidizer.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H360 May damage fertility or the unborn child.

H402 Harmful to aquatic life.



Precautionary Statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat.
P220 Keep/Store away from clothing/ combustible materials.
P221 Take any precaution to avoid mixing with combustibles.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
P330 Rinse mouth.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS: None

Section 3. Composition / Information on Ingredients

Common Name Sodium Perborate Tetrahydrate
Synonym(s) Sodium Peroxometaborate Tetrahydrate
Formula $\text{BNaO}_3 \cdot 4\text{H}_2\text{O}$
CAS Number 10486-00-7

COMPONENT	CAS NUMBER	CONCENTRATION
Sodium Perborate Tetrahydrate	10486-00-7	90 - 100%

Section 4. First Aid Measures

Description of First-aid Measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance.
Move out of dangerous area.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Consult a physician.

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.

Most Important Symptoms and Effects, both Acute and Delayed: The most important known symptoms and effects are described in the labelling and/or in section 11.

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: Borane/boron oxides, Sodium oxides

Advice for Firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further Information: Use water spray to cool unopened containers.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: 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 personal protection see section 8.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and Materials for Containment and Cleaning up: Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

Reference to Other Sections: For disposal see section 13.

Section 7. Handling and Storage

Precautions for Safe Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. 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. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition.

Conditions for Safe Storage, including any Incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Moisture sensitive.

Section 8. Exposure Controls / Personal Protection

Control Parameters

Components with Workplace Control Parameters: Contains no substances with occupational exposure limit values.

Exposure Controls

Appropriate Engineering Controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment

Eye/Face Protection: Face shield and safety glasses 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.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of Environmental Exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Form: Crystalline

Color: White

Odor: No data available

Odor Threshold: No data available

pH: 10.0 - 10.4 at 10 g/L at 25°C (77°F)

Melting Point/Range: 60°C (140°F) - dec.

Initial Boiling Point and Boiling Range: No data available

Flash Point: Not applicable

Evaporation Rate: No data available

Flammability (solid, gas): No data available

Upper/Lower Flammability or Explosive Limits: No data available

Vapor Pressure: No data available

Vapor Density: No data available

Relative Density: No data available

Water Solubility: No data available

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: The substance or mixture is classified as oxidizing with the category 2.

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: Metals, Metallic salts, acids, Bases, Reducing agents

Hazardous Decomposition Products

Other Decomposition Products: No data available

In the event of fire: see section 5

Section 11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity

LDLO Oral - Infant: 400 mg/kg

LDLO Oral - Child: 250 mg/kg

LDLO Oral - Human: 214 mg/kg

LD50 Oral - Rat: 1,200 mg/kg

Remarks

Behavioral: Convulsions or effect on seizure threshold.

Behavioral: Muscle weakness.

Inhalation: No data available

LD50 Dermal - Rabbit: > 2,000 mg/kg

No data available

Skin Corrosion/Irritation

Skin - Rabbit

Result: No skin irritation

Serious Eye Damage/Eye Irritation

Eyes - Rabbit

Result: Severe eye irritation

Respiratory or Skin Sensitization: No data available

Germ Cell Mutagenicity: No data available

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.

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

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

Reproductive Toxicity - Rat - Oral

Maternal Effects: Other effects. Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Embryo or Fetus: Extra embryonic structures (e.g., placenta, umbilical cord).

Presumed human reproductive toxicant May damage the unborn child. Suspected of damaging fertility.

Developmental Toxicity - Rat - Oral

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Developmental Toxicity - Rat - Oral

Specific Developmental Abnormalities: Musculoskeletal system.

Specific Developmental Abnormalities: Cardiovascular (circulatory) system.

Specific Target Organ Toxicity - Single Exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Specific Target Organ Toxicity - Repeated Exposure: No data available

Aspiration Hazard: No data available

Additional Information

RTECS: SC7350000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12. Ecological Information

Toxicity

Toxicity to Fish

LC50 - Danio rerio (zebra fish): 51 mg/L (96 h)



Toxicity to Daphnia and Other Aquatic Invertebrates

EC50 - Daphnia magna (Water flea): 11 mg/L (48 h)

Toxicity to Algae

IC50 - Desmodesmus subspicatus (green algae): 26.8 mg/L (96 h)

Persistence and Degradability

Biodegradability Biotic/Aerobic

Result: 85 % - Readily biodegradable.

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: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

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)

UN Number: 1479

Class: 5.1

Packing Group: III

Proper Shipping Name: Oxidizing solid, n.o.s. (Sodium peroxometaborate tetrahydrate)

Reportable Quantity (RQ): N/A

Marine Pollutant: No

Poison Inhalation Hazard: No

IMDG

UN Number: 1479

Class: 5.1

Packing Group: III

EMS-No: F-A, S-Q

Proper Shipping Name: Oxidizing Solid, N.O.S. (Sodium Peroxometaborate Tetrahydrate)

Marine Pollutant: No

IATA

UN Number: 1479

Class: 5.1

Packing Group: III

Proper Shipping Name: Oxidizing Solid, N.O.S. (Sodium Peroxometaborate Tetrahydrate)



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: Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components

Sodium Peroxometaborate Tetrahydrate (CAS-No. 10486-00-7)

Revision Date: 2010-08-02

New Jersey Right to Know Components

Sodium Peroxometaborate Tetrahydrate (CAS-No. 10486-00-7)

Revision Date: 2010-08-02

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: 2*

Flammability: 0

Reactivity: 1

NFPA Rating

Health: 2

Flammability: 0

Reactivity: 1

Special Hazard: OX

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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