



Sodium perborate Tetrahydrate

1. Chemical Product and enterprise information

Product Name.....Sodium perborate tetrahydrate
Synonyms.....sodium perborate,tetrahydrate perborax,hydrate of peroxometaborate
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MSDS No.....HYSPT-061001-10
Effective Date.....October1, 2006

2. Composition/Information on Ingredients

| | |
|------------------|--------------------------------------|
| Name | Sodium perborate tetrahydrate |
| Chemical Formula | NaBO ₃ ·4H ₂ O |
| CAS No. | 10486-00-7 |
| Percentage | Min.96 |

3. Hazards Identification

EMERGENCY OVERVIEW:

- White, odorless, crystals
- Oxidizer.
- Contact with combustibles may cause fire.
- Under fire conditions product may decompose releasing oxygen that intensifies fire.
- Deluge container with water at safe distance or in protected area.
- Corrosive to eyes.



POTENTIAL HEALTH EFFECTS: Airborne dust may be irritating to eyes, nose, throat



and lungs. No significant long term inhalation hazard; irritation usually subsides after exposure ceases.

4. First-Aid Measures

EYES: Immediately flush with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist immediately.

SKIN: Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

INGESTION: Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. See a medical doctor immediately.

INHALATION: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, contact a medical doctor.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA: Water, water fog

FIRE / EXPLOSION HAZARDS: Decomposes with liberation of heat and oxygen which may intensify fire in combustible surroundings.

FIRE FIGHTING PROCEDURES: For fires involving this material, do not enter any enclosed or confined fire space without proper protection equipment such as a self contained breathing apparatus.

FLAMMABLE LIMITS: Non-combustible

SENSITIVITY TO IMPACT: Not available

SENSITIVITY TO STATIC DISCHARGE: Not available

6. Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of





according to local and regional authority requirements.

Large Spill: Oxidizing material.

Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. Handling and Storage

Precautions: Keep away from heat. Keep away from sources of ignition. Keep away from combustible material Do not ingest. Do not breathe dust. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage: Oxidizing materials should be stored in a separate safety storage cabinet or room.

8. Exposure Controls/Personal Protection



Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.



Exposure Limits: Not available.

9. Physical and Chemical Properties

| | |
|---------------------------------------|-----------------------------|
| Physical state and appearance | Solid |
| Appearance | White crystalline solid |
| Odor | odorless |
| Taste | Not available |
| Molecular Weight | 153.88 g/mole |
| Color | Not available |
| pH (1% soln/water) | Not available |
| Boiling Point | 120°C |
| Freezing Point | 63°C |
| Melting Point | Decomposes. (60°C or 140°F) |
| Critical Temperature | Not available |
| Specific Gravity | 0.69-0.87 |
| Vapor Pressure | Not applicable. |
| Vapor Density | Not available. |
| Volatility | Not available. |
| Odor Threshold | Not available. |
| Water/Oil Dist. Coeff | Not available. |
| Ionicity (in Water) | Not available. |
| Dispersion Properties | Not available. |
| Solubility | Not available. |
| Evaporation Rate | Not available. |
| Coefficient of water/oil distribution | Not available |

10. Stability and Reactivity

Conditions of instability: Normally stable, Decomposes in warm moist air and in water





solution liberating oxygen

Incompatibilities: Organic and combustible materials, acids

Conditions of reactivity: Normally stable

Instability Temperature: Not available.

Conditions of Instability: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

11. Toxicological Information

Routes of Entry:

-skin contact: May irritate

-skin absorption: No information available

-eye contact: Irritates

-inhalation: Irritates

-Ingestion: Harmful

LC50: Not available

LD50: 1200mg/kg(ori-rat)

Exposure limits: Not established

Effects of Acute Exposure: This material is caustic to nasal and lung tissues and may cause severe burning, Ingestion may cause bleeding of the stomach and intestine, nausea, vomiting and headache

Effects of Chronic Exposure: No information available

Irritancy: Standard Draize Test: eye, rabbit 50mg-moderate

Sensitization to product: No information available

Carcinogenicity: No information available





Reproductive Toxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Toxicologically synergistic products:None found

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans:

Very hazardous in case of ingestion.

Hazardous in case of skin contact (irritant), of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

12. Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are as toxic as the original product.

Special Remarks on the Products of Biodegradation: Not available.

13. Disposal Considerations

Follow all federal, provincial and local regulations of disposal. Use only licensed disposal and waste hauling companies. Disposal of small amounts of spilled material may be handled as described under "Leak or Spill Cleanup". Large spills must be dealt with separately and must be handled by qualified disposal companies.





14. Transport Information

Proper Shipping Name:sodium perborate

UN:1479

Packing group: PG 2

TDG Classification:5.1

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

15. Rule of Law Information

No information

16. Other Information

The data in this Material Safety Data Sheet is believed to be correct. However, since conditions of use are outside our control it should not taken as a warranty of representation for which Henan Hongye Chemical Co., Ltd. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.

