



MATERIAL SAFETY DATA SHEET (MSDS)

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BDH Inc.

M A T E R I A L S A F E T Y D A T A S H E E T

Section I Product Identification and Use

Manufacturer:

BDH Inc.
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Toronto
Ontario
M8Z 1K5

Emergency Telephone No.:
416-201-6383 (24 HR.)
Information Telephone No.:
416-255-8521 (0830-1630)

Product Name: Sodium perborate
Product Code(s): B30196, K92836
Chemical Name/Other Name: Sodium perborate; perborax; perboric acid, sodium salt; metaborate peroxyhydrate
Chemical Formula: NaBo₂·H₂O₂·3H₂O
Chemical Family: Inorganic salt
TDG Shipping Name/UN: Oxidizing solid, N.O.S. (Sodium perborate) UN 1479
TDG Classification/Packing group: 5.1 PG II
Use: Laboratory reagent, industrial processes

Section II Hazardous Ingredients

Chemical name	CAS No.	8
Sodium perborate	13157-20-9	100

Section III Physical Data

Physical State: Solid
Appearance and Odour: White powder
Odour Threshold: Not available
Specific Gravity: 0.69-0.87
Vapour Pressure: Not available
Vapour Density: Not available
Evaporation Rate: Not available
Boiling Point: 120°C
Freezing Point: 63°C
pH: Not available
Coefficient of water/oil distribution: Not available

Section IV Fire or Explosion Hazard

Conditions of Flammability: Nonflammable. However, contact with organic or combustible material may cause a fire.
Extinguishing Media: Use an extinguisher appropriate to the surrounding material that is burning
Flash point / method: None
UEL: Not available
LEL: Not available



Autoignition Temperature: Not available
Hazardous Combustion Products: H₂O₂
Explosion data - sensitivity to mechanical impact: No
- sensitivity to static discharge: No

Section V Reactivity Data

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
Hazardous decomposition products: H₂O₂

Section VI Toxicological Properties / Health Hazard Data

Route of entry:

- skin contact: May irritate
- skin absorption: No information available
- eye contact: Irritates
- inhalation: Irritates
- ingestion: Harmful

LC₅₀: Not available

LD₅₀: 1200 mg/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 50 mg-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

Section VII First aid measures

Skin: Flush the contact area with lukewarm running water for at least 15 minutes. Remove contaminated clothing, taking care not to spread the chemical. If contamination is extensive, remove clothing under running water. Discard or decontaminate clothing under running water. Discard or decontaminate clothing before use. Unless contact has been slight, seek medical attention. Seek medical attention if irritation persists.

Eye: Flush the contaminated eye(s) for at least 15 minutes with lukewarm running water, holding the eyelids open. Take care not to rinse contaminated water into the non-affected eye. Always seek medical attention for accidents involving the eyes.

Inhalation: Take proper precautions to ensure your own safety before attempting rescue. Remove source of contamination or move victim to fresh air. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

Ingestion: Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Do not induce vomiting. Have victim drink 200-400 ml of water to dilute. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR)



immediately. Seek medical attention.

Section VIII Preventive Measures

Engineering Controls: Engineering control methods to reduce hazardous exposures are preferred. Methods include mechanical ventilation (dilution and local exhaust), process or personnel enclosure, control of process conditions, and process modification. Administrative controls and personal protective equipment may also be required.

Personal protective equipment:

- gloves: Rubber or plastic
- respiratory protection: Dust mask as appropriate
- eye protection: Chemical safety goggles
- clothing: Plastic apron, sleeves and boots as appropriate

Storage Requirements: Store in suitable labelled containers. Keep containers tightly closed when not in use and when empty. Protect from damage. Store in a cool, dry, well-ventilated area, out of direct sunlight. Store away from incompatible materials.

Handling Procedures and Equipment: Avoid generating dust. Follow routine safe handling procedures.

Leak or Spill Clean-up: Before dealing with spillages take necessary protective measures, inform others to keep at a safe distance and, for flammable materials, shut off all possible sources of ignition. Mix with wet sand, transfer to container and arrange removal by disposal company. As contact with any oxidant or an render organic matter (paper, wood, textiles) dangerously combustible, wash area of spillage and contaminated clothing thoroughly with water.

Disposal: Follow all federal, provincial and local regulations for 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.

Special Shipping Information: Follow all TDG regulations and see classification in Section I

Section IX Preparation Information

Prepared by: Technical Affairs Department, BDH Inc.,
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WHMIS Classification: C, D2B

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