

Material Safety Data Sheet

SODIUM PERBORATE ANHYDROUS

Section 1 - Product Identification

Product Name : Sodium Perborate Anhydrous
CAS No. : 7632-04-4
Synonym : dexol
Company Identification : Tradeasia International Pte. Limited
Address :
133 Cecil Street # 12-03 Keck Seng Tower, Singapore
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Section 2 – Composition/Information on Ingredients

Substances

Name of substance	Sodium Monochloroacetate
Identifiers	
CAS No	7632-04-4
Molecular formula	BNaO3
Molar Mass	81.83 g/mol

Section 3 – Hazardous Ingredients & Occupational Exposure Limits

Classification of the substances or mixture

Classification according to Regulation (EC) No 1272/2008

Oxidizing solids Category 3, (H272)
Acute toxicity, Oral Category 4, (H302)
Serious eye damage Category 1, (H318)
Acute toxicity, inhalation Category 3 (H331)
Specific target organ toxicity - single exposure Category 3, (H335)
Reproductive toxicity Category 1B, (H360)

Label Elements

GHS Label elements, including precautionary statements

Hazard Pictogram(s):



Signal Word: Danger

Hazard Statements:

H272 May intensify fire; oxidizer.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H360 May damage fertility or the unborn child.

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/sparks/open flames/hot surfaces – No smoking.

P220 Keep/Store away from clothing/ combustible materials.

P221: Take any precaution to avoid mixing with combustibles.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264: Wash ... thoroughly after handling.

P270: Do not eat, drink, or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

P330: Rinse mouth.

P304+340: 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.

P370+378: In case of fire: Use Water spray, Foam for extinction.

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P308+313: IF exposed or concerned: Get medical advice/attention.

P405: Store locked up.

P403+233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of contents/container to an authorized agent only.

Supplemental Hazard Statements none

Hazards Not Otherwise Classified: None known

Section 4 – First-Aid Measures

General: Always seek medical attention after first aid measures are provided.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Skin Contact: Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical attention.

Notes to physician: Symptomatic and supportive treatment is recommended.

Section 5 – Employee Protection

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

Unsuitable extinguishing media: Avoid carbon dioxide and gas filled extinguisher.

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: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. At high temperatures under fire conditions, it may produce toxic or irritating fumes.

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place.

Section 6 – Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Avoid breathing dust/fumes/gas/mist/vapors/spray. Use individual protective equipment (waterproof boots, suitable protective clothing, safety glasses, etc.). Restrict unprotected personnel from the area. Prevent any contact with hot surfaces. Do not approach facing the wind. Do not touch the spilled material.

Environmental Precautions: Do not let the product enter drains, soil, or water sources.

Methods and Materials for Containment and Cleaning up:

Small Spill: Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. 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: Eliminate all sources of ignition. Do not let the product enter drains. Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating as per law.

Section 7 – Handling and Storage

Precautions for safe handling: Apply according to good manufacturing and industrial hygiene practices. Ensure proper ventilation. Wash thoroughly after handling. Do not drink, eat, or smoke while handling. Avoid contact with skin, eyes, and clothing. Wear suitable protective clothing. Minimize dust generation. Avoid breathing dust/fumes/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use individual protective equipment (waterproof boots, suitable protective clothing, safety glasses, etc.). Prevent any contact with hot surfaces.

Conditions for safe storage, including any incompatibilities: Store in cool <32C, dry and ventilated area away from heat sources and protected from sunlight in tightly closed original container. Keep air contact to a minimum. Do not leave the material container open. Store protected from heat, sparks and ignition sources and incompatible materials. Avoid contact with skin and eyes. Avoid inhalation of dust/mist/vapor. Do not store with incompatible materials like combustible substances, organic substances, reducing agents, powdered metals, strong bases, alcohols, phosphorous, anhydrides, halogens, acids, metal powders.

Section 8 – Exposure Controls/Personal Protection

Exposure Limits/Guidelines: No data available

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 and Face protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Skin and Body protection: Wear protective gloves and clean body-covering clothing.

Respiratory protection: For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

Additional Information: Maintain good housekeeping in work area. Dust deposits on floors and other surfaces may pick up moisture and cause the surfaces to become slippery and present safety hazards. Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling.

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: White crystals or powder.

Odor: None.

Odor threshold: Not available.

pH: 10 at 1% solution at 25 C (77F)

Relative density: 2.4 - 2.6

Melting Point: Decomposes at 60C

Initial boiling point and boiling range: Not available.

Flash point: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Upper/lower flammability or explosive limits: Not available.

Vapor pressure: Not available.

Vapor density: Not available.

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Partition coefficient: n-octanol/water: Not available.

Solubility: Soluble in water.

Viscosity: Not available.

Molecular Weight: 99.81

Molecular Formula: BNaO3· H2O

% Volatile by volume @ 21C (70F): 0

Other data

No data available

Section 10 – Stability and Reactivity

Reactivity: No data available.

Chemical Stability: Sodium Perborate is stable under ordinary conditions of use and storage. It becomes unstable by heat and moisture.

Possibility of hazardous reaction: No data available.

Conditions to Avoid: Moisture, Heat, Incompatibles.

Incompatible Materials: Organic substances, Strong reducing agents, Powdered metals, Strong bases, Alcohols, phosphorous, Anhydrides, Halogens, Acids, Metal powders and Reducing agents.

Hazardous Decomposition Products: Oxygen, oxides of sodium, boron oxides and fumes.

Hazardous Polymerization: Hazardous polymerization does not occur.

Section 11 – Toxicological Information

Acute toxicity: No data available.

Skin corrosion/irritation: No data available.

Serious eye damage/irritation: No data available.

Respiratory sensitization: No data available

Carcinogenicity: No data available

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

Information on likely routes of exposure

Ingestion: No data available
Inhalation: No data available
Skin contact: No data available
Eye contact: No data available
Interaction with Other Chemicals Which Enhance Toxicity: None known.

Additional Information: No data available.

Section 12 – Ecological Information

Toxicity: No data available.
Persistence and degradability: No data available.
Mobility in soil: No data available.
Results of PBT and vPvB assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Other adverse effects: No data available

Section 13 – Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements. Small amounts of this material may be suitable for sanitary sewer or trash disposal.

Section 14 – Transport Information

In accordance with DOT/IMDG/IATA/ADR

Proper Shipping Name: SODIUM PERBORATE MONOHYDRATE
UN: UN3377
Hazard Class: 5.1
Packing Group: III

Additional Information:
No data available

Section 15 – Regulatory Information

1. US Federal regulations

TSCA: Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA 311/312 Hazards: Fire Hazard, Immediate (Acute) Health Hazard.

2. International regulations

No data available

3. National regulations

No data available

4. US State regulations

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State or local regulations	No data available
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Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Tradeasia International Pte. Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Tradeasia International Pte. Ltd. has been advised of the possibility of such damages.