

Sodium	n Pe	borate Tetrahydrate	Pricing >	
Linear Formula		BNaO <sub>3</sub> • 4H <sub>2</sub> O		
Pubchem CID		23676691		
MDL Number		MFCD00149231		
EC No.		231-556-4		
IUPAC Name		sodium; 3-oxido dioxaborirane; tetrahydrate		
Beilstein/Reaxys No.		N/A		
SMILES		B1(OO1)[O-].O.O.O.O.[Na+]		
Inchl Identifier		InChI=1S/BO3.Na.4H2O/c2-1-3-4-1;;;;;/h;;4*1H2/q-1;+1;;;;		
Inchl Key		IBDSNZLUHYKHQP-UHFFFAOYSA-N		
Signal Word	Danger			
Hazard Statements	H272-H302-H318-H335-H360Df			
Hazard Codes	С, Т			
Precautionary Statements	P201-P202-P271-P281-P304+P340-P305+P351+P338-P308+P313-P310-P501			
Risk Codes	61-8-22-23-37-41-62			
Safety Statements	53-45			
RTECS Number	SC7350000			
Transport Information	UN 3377 5.1/PG III			
WGK Germany	3			
GHS Pictograms	GHS05 Corrosive GHS07 Exclamation Point C GHS08 Health Hazard C C C C C C C C C C C C C			
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### SAFETY DATA SHEET

Date Accessed: 05/05/2024 Date Revised: 01/15/2022

### **SECTION 1. IDENTIFICATION**

**Product Identifiers:** All applicable American Elements product codes for CAS #10486-00-7

**Relevant identified uses of the substance:** Scientific research and development

Supplier details: American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351

Emergency telephone number: Domestic, North America +1 800-424-9300 International +1 703-527-3887

### SECTION 2. HAZARDS IDENTIFICATION

Classification This chemical is considered hazardous by the 2012 **OSHA Hazard Communication Standard (29 CFR** 1910.1200) Acute Inhalation Toxicity - Dusts and Mists Category 4 Serious Eye Damage/Eye Irritation Category 1 Reproductive Toxicity Category 1B Specific target organ toxicity (single exposure) Category 3 Target Organs - Respiratory system. Label Elements Signal Word: Danger Hazard Statements: Causes serious eye damage Harmful if inhaled May cause respiratory irritation May damage the unborn child. Suspected of damaging fertility



Precautionary Statements Prevention: Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Response: IF exposed or concerned: Get medical attention/advice Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Eves IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician Storage:

Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal: Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component CAS-No Weight % Sodium perborate tetrahydrate 10486-00-7 >95

### **SECTION 4. FIRST AID MEASURES**

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention. Inhalation Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention. Ingestion Do NOT induce vomiting. Get medical attention. Most important symptoms and effects Causes eye burns. Notes to Physician Treat symptomatically

### SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable Extinguishing Media No information available Flash Point No information available Method - No information available Autoignition Temperature No information available Explosion Limits Upper No data available Lower No data available

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available Specific Hazards Arising from the Chemical Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Hazardous Combustion Products Oxides of boron. Oxygen. Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. NFPA Health: 2 Flammability: 0 Instability: 0 Physical hazards: N/A

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Environmental Precautions See Section 12 for additional Ecological Information. Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment.

### **SECTION 7. HANDLING AND STORAGE**

Handling

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Storage Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed. Keep at temperatures below 40°C.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. **Engineering Measures** Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. **Personal Protective Equipment** Eve/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure. **Respiratory Protection** Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. **Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Powder Solid **Appearance White** Odor Odorless Odor Threshold No information available pH 10.4 1% ag.solution Melting Point/Range 60 °C / 140 °F Boiling Point/Range No information available Flash Point No information available **Evaporation Rate Not applicable** Flammability (solid,gas) No information available Flammability or explosive limits Upper No data available Lower No data available Vapor Pressure 1.3 mbar @ 30 °C Vapor Density Not applicable Density 1.731 g/cm3 Specific Gravity No information available Solubility 21.5 g/l (18°C) Partition coefficient; n-octanol/water No data available Autoignition Temperature No information available

Decomposition Temperature 150 - 400 °C Viscosity Not applicable Molecular Formula B Na O3 . 4 H2 O Molecular Weight 153.86

### SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard None known, based on information available Stability Stable under normal conditions. Conditions to Avoid Incompatible products. Incompatible Materials Finely powdered metals, Strong reducing agents, Combustible material Hazardous Decomposition ProductsOxides of boron, Oxygen

Hazardous Polymerization No information available. Hazardous Reactions None under normal processing.

# SECTION 11. TOXICOLOGICAL INFORMATION

Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation Causes eye burns Sensitization No information available Mutagenic Effects No information available Reproductive Effects Possible risk of impaired fertility. Possible risk of harm to the unborn child. Developmental Effects No information available. Teratogenicity No information available. STOT - single exposure Respiratory system STOT - repeated exposure None known Aspiration hazard No information available Symptoms / effects.both acute and delayed No information available Endocrine Disruptor Information No information available Other Adverse Effects See actual entry in RTECS for complete information.

### SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Do not empty into drains. Persistence and Degradability Soluble in water Persistence is unlikely based on information available. Bioaccumulation/ Accumulation No information available. Mobility Will likely be mobile in the environment due to its water solubility.

# SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

### **SECTION 14. TRANSPORT INFORMATION**

DOT **UN-No UN3377** Proper Shipping Name SODIUM PERBORATE Tetrahydrate Hazard Class 5.1 Packing Group III TDG **UN-No UN3377** Proper Shipping Name SODIUM PERBORATE Tetrahydrate Hazard Class 5.1 Packing Group III IATA UN-No UN3377 Proper Shipping Name SODIUM PERBORATE Tetrahydrate Hazard Class 5.1 Packing Group III IMDG/IMO **UN-No UN3377** Proper Shipping Name SODIUM PERBORATE Tetrahydrate Hazard Class 5.1 Packing Group III

# SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations SARA 313 Not applicable SARA 311/312 Hazard Categories See section 2 for more information CWA (Clean Water Act) Not applicable Clean Air Act Not applicable OSHA - Occupational Safety and Health Administration Not applicable **CERCLA Not applicable** California Proposition 65 This product does not contain any Proposition 65 chemicals. U.S. State Right-to-Know Regulations Not applicable U.S. Department of Transportation Reportable Quantity (RQ): N **DOT Marine Pollutant N** DOT Severe Marine Pollutant N U.S. Department of Homeland Security This product does not contain any DHS chemicals. Other International Regulations Mexico - Grade No information available

### **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). 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. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.