

Material Safety Data Sheet

North American Chemical Company

13200 Main Street
Trona, California 93562

PYROBOR®
dehydrated
borax

For more detailed information on the hazards of this product, write to the address above. Technical Information Bulletin is also available. For emergency information, telephone (619) 372-2291 any time.

PRODUCT IDENTIFICATION

Brand NamePYROBOR dehydrated borax
Chemical NameSodium tetraborate
Common NameAnhydrous Borax
FormulaNa₂B₄O₇
DOT Proper
Shipping NameNot applicable
DOT Hazard
ClassNot applicable
DOT I.D. NumberNot applicable
Reportable Quantity (RQ) . .Not applicable
CAS Number1330-43-4

PHYSICAL AND CHEMICAL PROPERTIES

StateGranular solid
Melting Point C743
Boiling Point C1575 decomposes
ColorWhite
OdorNone
Bulk Density,lb/cu.ft.71
Weight Per GallonNot applicable
Specific Gravity @ 20C2.3
Water Solubility % by wt. @ 20C 2.6
Flash Point And MethodNot applicable
pHNot applicable

HAZARDOUS INGREDIENTS

Chemical Name	Common Name	CAS Number	Hazard
Sodium tetraborate anhydrous	Borax, anhydrous	1330-43-4	Irritant to eyes, nose, throat and lungs. Toxic if swallowed or absorbed through damaged skin. Long-term effects may include reproductive and fetal abnormalities.

PHYSICAL HAZARD INFORMATION

Explosive: No Upper Explosive Limit: Not applicable Lower Explosive Limit: Not applicable
Pyrophoric: No
Flammable: No Flammability Class: Not applicable
Combustible: No Organic Peroxide: No
Oxidizer: No Compressed Gas: No
Reactivity: Stable at normal and expected temperatures and pressures. Will form hydrated borax in the presence of moist air or water.
Incompatibilities: Reacts violently with finely divided zirconium .
Hazardous Decomposition: None.
Conditions To Avoid: Heat sources and incompatible materials .

WARNING

This product contains arsenic, a chemical known to the State of California to cause cancer. This warning provided in compliance with Proposition 65.

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HEALTH INFORMATION

Precautionary Information: CAUTION! Causes irritation. Harmful if swallowed or absorbed through damaged skin. Studies in animals show daily ingestion of large amounts of boron based products causes effects on the male reproductive system (testicular atrophy, reduced sperm production, and sterility) and fetal developmental effects (organ and skeletal abnormalities).

Symptoms Of Exposure: Irritation of eyes, nose and throat, abdominal pain, nausea, vomiting, and diarrhea.

Restrictive Medical Conditions: Kidney and liver disease and nerve disorders may be aggravated by exposure to this material.

PRIMARY ROUTE(S) OF ENTRY

Inhalation (breathing), eyes, damaged skin and ingestion (swallowing).

TOXICITY INFORMATION

The toxicity of anhydrous borax has not been established. When dissolved in a buffered water solution, sodium borates cannot be differentiated from one another chemically or toxicologically. The following information is for borax, sodium tetraborate decahydrate. Oral-infant LDLo 1000 mg/kg; Oral-man LDLo 709 mg/kg; Oral-Sprague-Dawley rats LD₅₀, 4500 mg/kg males, 4980 mg/kg females; Oral-Long-Evans rats LD₅₀, 6080 mg/kg males. Reproductive system effects, including testicular atrophy, reduced sperm count and sterility have occurred in mice, rats and dogs at daily feeding levels of 45 mg/kg of body weight of boron based product equivalents. Mutagenic effects have been noted in bacteria exposed to 17,000 ppm/24 hours. Abnormalities (fused skeletons, organ variations and non-viable fetuses) have been seen in fetuses of rabbits given doses by stomach tube of 75 mg/kg and 225 mg/kg daily during the 7th and 19th day of gestation. No fetal effects were seen at a dose of 25 mg/kg.

EXPOSURE LIMITS

OSHA: TWA is 10 mg/m³.
ACGIH: TLV-TWA 1 mg/m³.
Other: Not applicable.

Reported As A Potential Carcinogen	<input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/> National Toxicology Program
Or Carcinogen	<input type="checkbox"/> OSHA	<input type="checkbox"/> International Agency For Research On Cancer

PRECAUTIONS FOR SAFE HANDLING AND USE

Do not ingest (swallow) material.
Avoid contact with eyes, skin and clothing.
Avoid breathing dust.
Use with adequate ventilation.
Keep container closed.
Store in a cool, dry place.
Good housekeeping practices are important; this product contains trace impurities, such as arsenic, which if allowed to accumulate in equipment, may present a hazard.
Wash thoroughly after handling.

SPILL AND LEAK PROCEDURES

Soil Release: Shovel or sweep up into a container and reclaim for salvage value or dispose of in accordance with federal, state and local regulations. If permitted, wash to an industrial sewer.

Water Spill: Collect by suction or dredge and dispose of as under Soil Release above.

Air Spill: Allow dust to settle, collect and dispose of as above for Soil Release.

Occupational Spill: Shovel or sweep up and dispose of as above for Soil Release.

RCRA Waste Number: Not applicable.

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation: Use local exhaust and general dilution ventilation techniques. Personnel must use a personal respirator if dust concentration exceeds exposure limit.

Respirator: Use NIOSH/MSHA approved dust and mist respirator if dust concentration exceeds the exposure limit and up to 50 mg/m³.

Eye Protection: Wear safety glasses or vented safety goggles.

Gloves: No special requirements. Wear ordinary work gloves.

Clothing: No special requirements. Wear easily washable clothing. Change daily. Wash clothing before reuse.

EMERGENCY PROCEDURES

Fire: This product is not flammable and does not support combustion. Use firefighting media suitable for surrounding fire.

Spill or Leak: Shovel and sweep up and place in container for later disposal.

FIRST AID PROCEDURES

Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

Skin Contact: Flush with plenty of water and then wash thoroughly with soap or mild detergent and water.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Note To Physician: Chemical of exposure is anhydrous borax.

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