

Common Name: **BORATE COMPOUNDS, INORGANIC**

Synonyms: None

CAS No: None

Molecular Formula: Varies

RTK Substance No: 0241

Description: White to gray powders

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
2 - Health 0 - Fire 0 - Reactivity DOT#: None ERG Guide #: None Hazard Class: None	Borate Compounds, Inorganic are not combustible, but may be STRONG OXIDIZERS that enhance the combustion of other substances. Extinguish fire using an agent suitable for type of surrounding fire. POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Boron Oxides</i> . Borate Compounds, Inorganic may ignite combustibles (wood, paper and oil).	Borate Compounds, Inorganic are not compatible with STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC).

SPILL/LEAKS

Isolation Distance:

Spill: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

Collect powdered material in the most convenient and safe manner and place into sealed containers for disposal.

Borate Compounds, Inorganic may be dangerous to aquatic life in high concentrations.

PHYSICAL PROPERTIES

Flash Point:	Noncombustible
Vapor Pressure:	<0 mm Hg at 68°F (20°C)
Specific Gravity:	1.4 to 2.3 (water = 1)
Water Solubility:	Slightly soluble to Soluble
Boiling Point:	Varies
Melting Point:	Varies
Molecular Weight:	Varies

EXPOSURE LIMITS

NIOSH: 1 mg/m³, 10-hr TWA (*Anhydrous and Pentahydrate*)
 5 mg/m³, 10-hr TWA (*Decahydrate*)

ACGIH: 2 mg/m³, 8-hr TWA; 6 mg/m³, STEL (*inhalable fraction*)

The Protective Action Criteria values for *Sodium Borate* are:

PAC-1 = 1.5 mg/m³
 PAC-2 = 12.5 mg/m³
 PAC-3 = 60 mg/m³

PROTECTIVE EQUIPMENT

Gloves:	Nitrile and Natural Rubber
Coveralls:	Tyvek®
Respirator:	>1 mg/m ³ - Full facepiece APR with High efficiency filter >10 mg/m ³ - SCBA

HEALTH EFFECTS

Eyes:	Irritation
Skin:	Irritation
Inhalation:	Nose, throat and lung irritation with coughing, wheezing and shortness of breath Headache, dizziness, tremors, and lightheadedness

FIRST AID AND DECONTAMINATION

Remove the person from exposure.
Flush eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.
Quickly remove contaminated clothing and wash contaminated skin with large amounts of soap and water.
Begin artificial respiration if breathing has stopped and CPR if necessary.
Transfer promptly to a medical facility.