

**SODIUM TETRABORATE**

1229

October 1995

CAS No: 1330-43-4  
RTECS No: ED4588000  
UN No:  
EC No:

Sodium biborate  
Sodium pyroborate  
Boron sodium oxide  
Fused borax  
 $\text{Na}_2\text{B}_4\text{O}_7$   
Molecular mass: 201.3

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: all extinguishing agents allowed.
<b>EXPLOSION</b>			

EXPOSURE		PREVENT DISPERSION OF DUST!	
<b>Inhalation</b>	Cough. Shortness of breath. Sore throat. Nose bleed.	Local exhaust or breathing protection.	Fresh air, rest.
<b>Skin</b>	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>Eyes</b>	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	Abdominal pain. Diarrhoea. Nausea. Vomiting. Weakness.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

**SPILLAGE DISPOSAL**

Sweep spilled substance into containers. Carefully collect remainder, then remove to safe place (extra personal protection: P2 filter respirator for harmful particles).

**PACKAGING & LABELLING**

Symbol  
R:  
S:

**EMERGENCY RESPONSE****STORAGE**

Separated from strong oxidants. Dry. Well closed.

### IMPORTANT DATA

**Physical State; Appearance**

ODOURLESS, HYGROSCOPIC, WHITE POWDER OR GLASS-LIKE PLATE. TURNS OPAQUE ON EXPOSURE TO AIR.

**Chemical Dangers**

The substance decomposes on heating or on burning producing toxic fumes including sodium oxide. Reacts with strong oxidants.

**Occupational Exposure Limits**

TLV: ppm; 1 mg/m<sup>3</sup> (as TWA) (ACGIH 1994-1995).

**Routes of Exposure**

The substance can be absorbed into the body by inhalation of its aerosol, by ingestion and through damaged skin.

**Inhalation Risk**

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed, especially if powdered.

**Effects of Short-term Exposure**

The substance irritates the eyes, the skin and the respiratory tract. The substance may cause effects on the central nervous system, kidneys and gastrointestinal tract by ingestion at high dose or through damaged skin.

**Effects of Long-term or Repeated Exposure**

Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the respiratory tract.

### PHYSICAL PROPERTIES

Boiling point (decomposes): 1575°C  
Melting point: 741°C

Relative density (water = 1): 2.367  
Solubility in water, g/100 ml at 20°C: 2.56

### ENVIRONMENTAL DATA

### NOTES

Rasorite 65 is a trade name.

### ADDITIONAL INFORMATION

**LEGAL NOTICE**

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information