

Material Safety Data Sheet

Section 1: Composition and Product Identification

**Science Plus
& Boreal Laboratories**

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HAZARD RATING		
4- EXTREME	HEALTH	2
3- SEVERE		
2- MODERATE	FLAMMABILITY	0
1- SLIGHT		
0- MINIMAL	REACTIVITY	0

Product Name Sodium Tetraborate Decahydrate

Material Uses Cosmetics.

Product No. 86740-03

Synonyms Not available.

CAS 1303-96-4

Formula Na₂B₄O₇·10H₂O

Section 2: Hazardous Ingredients

Product Name

CAS

Conc (%)

PIN

1) Sodium Borate*

1303-96-4

99+

N/A

For Exposure Limits (TLV, PEL), LD50 and LC50 see section 5 of this document.

* Chemical subject to the reporting of SARA Title III.

Section 3: Physical Data

Appearance	Solid.	Odor Threshold	Not available.
Color	Grey, blue or green.	Vapor Pressure	Not available.
Odor	Odorless.	Evaporation Rate (Reference solvent)	Not available.
Specific Gravity (Water = 1)	1.73 (Water = 1)	Vapor Density (Air = 1)	Not available.
Melting Point	75°C (167°F)	Percent Volatile by Volume	Not available.
Boiling Point	Not available.	pH (1% water soln)	Not available.
Water/Oil Dist. Coeff.	Not available.	Solubility	Very slightly soluble in hot water.

Section 4: Fire and Explosion Hazard Data

Flash Point (Methods)	Not applicable.	Autoignition Temp.	Not applicable.
Flammable Limits in Air by Volume	Not applicable.		
Flammability	Not applicable.		

Explosion Hazard Not available.

Haz. Comb. Prod. Not applicable.

Means of Extinction Use extinguishing media suitable for surrounding materials.

Special Fire Fighting Procedures

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Unusual Fire and Explosion Hazards

Not considered to be flammable.

Section 5: Health Hazard Data

Exposure Limits TLV: 5 mg/m³ from ACGIH (United States).
(P.E.L., TLV, etc.) PEL: 10 mg/m³ from OSHA (United States).

Acute Effects Hazardous in case of eye contact (irritant), of inhalation (lung irritant). Slightly hazardous in case of ingestion.

Routes of Entry Eye contact. Inhalation. Ingestion. LD50/LC50 Acute oral toxicity (LD50): 15000 to 20000 mg/kg [Rat].

Effects of Overexposure

Skin Contact: May be absorbed through the skin. **Eye Contact:** May cause redness and pain. **Inhalation:** May cause nausea, coughing and vomiting. **Ingestion:** May cause nausea, vomiting, diarrhea, muscular spasm, circulatory depression.

Emergency and First Aid Procedures

FIRST AID SKIN: Wash contaminated skin with soap and water. **EYES:** Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention. **INHALATION:** Move exposed person to fresh air. If irritation persists, get medical attention. **INGESTION:** If affected person is conscious, give plenty of water to drink. Induce vomiting by touching the back of throat with fingers. Never give anything by mouth to an unconscious person. Seek medical attention.

Section 6: Reactivity Data

Stability	The product is stable.	Instability Temp.	Not available.
Incompatibility	Reactive with acids, alkaloïds and metallic salts.		
Degradation Prod.	Some metallic oxides.	Hazardous polymerization?	Will not occur.
Materials to Avoid	Not available.		

Section 7: Spill or Leak Procedures

Spill	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.
Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 8: Protection Equipment Information

Equipment	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Section 9: Other Information

Special Precautions Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 4).

Read label on container before using. Do not wear contact lenses when working with chemicals.

Verified by S. Quandt Effective Date Printed 2/12/2001

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

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