

Emergency Phone Number (24 hours) CHEMTREC (800-424-9300)
Outside US: 703-527-3887

SECTION 1
CHEMICAL IDENTIFICATION OF THE
SUBSTANCE/PREPARATION

NAME: Sodium Tetraborate
FORMULA: Na₂B₄O₇
COMMON NAME OR SYNONYMS: Sodium Borate
SPEX CERTIPREP CATALOG NUMBER: FF-0630 or
FF-0631

Manufacturer/Supplier
SPEX CERTIPREP
203 Norcross Avenue
Metuchen, NJ 08840

SPEX CERTIPREP LTD
2 Dalston Gardens
Stanmore, Middlesex HA7 1BQ
England
Tel: (0) 20 8204 6656

SECTION 2
COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	%	TLV UNITS	CAS #	EINECS
Na ₂ B ₄ O ₇	100	Data not available	[1330-43-4]	

SECTION 3
HAZARDS IDENTIFICATION

None identified. May be irritating to eyes and mucous membranes upon contact.

SECTION 4
FIRST AID MEASURES

General: Remove contaminated clothing, wash thoroughly before reuse.
Eyes: Flush with water for at least 15 minutes occasionally lifting upper and lower eyelids. *Skin:* Remove contaminated clothing and flush with water thoroughly. *Inhalation:* Move to fresh air. Consult doctor if symptoms persist. *Ingestion:* If large amounts were swallowed, get immediate medical help. If the patient is conscious, give large quantities of water.

SECTION 5
FIRE FIGHTING MEASURES

Flash Point: Not applicable.
Extinguishing media: Appropriate to surrounding fire conditions.
Special Hazards and Procedure: None identified.
Protective Equipment: Wear appropriate to surrounding fire conditions.

SECTION 6
ACCIDENTAL RELEASE MEASURES

Ventilate area. Wear appropriate protective equipment. Contain and recover when possible. Collect and put into a sealed container for proper disposal. Avoid raising dust. Wash spill site with water after material pick up is complete. Wear respirator, chemical resistant glasses, gloves and clothing.

SECTION 7
HANDLING & STORAGE

Ensure good ventilation/exhaustion at work place. Have an immediate availability of an eye wash in case of emergency. Store at room temperature. Keep the container tightly closed. Use good Laboratory Practice when working with any chemical whether it is considered hazardous or not. Refer to section 8.

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SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear goggles, protective apron and chemical resistant gloves. Use respirator if dust is raised when using this.

SECTION 9

PHYSICAL & CHEMICAL PROPERTIES

Form:	Powder
Molecular Weight:	169.11
Appearance & odor:	White granular
Specific Gravity:	N/A
pH:	n/a
Melting point:	930 C
Boiling Point:	N/A
Solubility in water:	Cold 2.89g/100 cc; hot – 5.5 g/100cc
Danger of Explosion:	Not explosive
Self-ignitability:	Not self igniting

SECTION 10

STABILITY & REACTIVITY

Stability: Stable under normal storage and use.
Hazardous Decomposition Products: May emit toxic fumes
Hazardous Polymerization: Will not occur
Incompatibility: No information.
Conditions to Avoid: No information.

SECTION 11

TOXICOLOGICAL INFORMATION

May be irritating to the skin, eyes or respiratory tract. Chronic exposure may cause inflammation of mucous membranes, leading to bronchitis, laryngitis, or conjunctivitis. Borates are rapidly absorbed from mucous membranes or abraded skin. Symptoms are gastrointestinal irritation, kidney damage and central nervous system depression. Symptoms may appear after several hours. In children, vomiting, diarrhea, shock, even death may occur with ingestion of 5-10 grams.

TOXICITY DATA

Na₂B₄O₇ – RTECS#V224000
No Data Available

SECTION 12

ECOLOGICAL INFORMATION

No information is found on environmental toxicity for this.

SECTION 13

DISPOSAL CONSIDERATIONS

Contact local Hazardous or Chemical waste disposal agency for regulations.

SECTION 14

TRANSPORT INFORMATION

Air & Ground: Not regulated



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**SECTION 15
REGULATORY INFORMATION**

USA:

Listed in EPA TSCA Inventory

WHMIS Classification (Canada): Not Regulated

EC Guidelines:

Safety Phrases:

- 36/37 - Wear suitable protective clothing, and gloves,
- 26 - in case of contact with eyes, rinse immediately with plenty of water and seek medical attention.
- 45 - in case of accident or if you feel unwell, seek medical advice immediately.

**SECTION 16
OTHER INFORMATION**

SPEX CERTIPREP ASSUMES NO RESPONSIBILITY AND MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AS TO THE ACCURACY OR COMPLETENESS OF THE DATA CONTAINED HEREIN. INDICATED SAFETY MEASURES MAY NOT REFLECT ALL APPROPRIATE SAFETY MEASURES. SPEX CERTIPREP ASSUMES THAT ONLY QUALIFIED INDIVIDUALS, TRAINED AND FAMILIAR WITH PROCEDURES SUITABLE TO THIS PRODUCT, WILL HANDLE THIS PRODUCT.

Date: April 29, 2006

**SECTION 16
OTHER INFORMATION**

References: NIOSH/OSHA, Occupational Health Guideline for Nitric Acid, (Sept.1978)
The Sigma/Aldrich Library of Chemical Safety Data, Ed.I, (1985)
Registry of Toxic Effects of Chemical Substances, 1981-82
Patty's Industrial Hygiene and Toxicology, 3rd Revised Edition, Vol. 2A, 1981
Threshold Limit Values and Biological Exposure Indices for 1988-89, ACGIH
Dangerous properties of Industrial Materials by N.Irving Sax and Richard J. Lewis, Sr.(Ninth Edition) *