



Section 1 - Chemical Product and Company Identification

Product Name	Sodium Tetraborate (Borax Anhydrous) extrapure AR, 99%
Product Code	56580
CAS No	1330-43-4
Use for	Laboratory Chemicals.
Company Name	Sisco Research Laboratories Pvt. Ltd.
Address	608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road, Andheri (E), Mumbai - 400 099, India

Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
1330-43-4	Sodium Tetraborate Anhydrous (Borax) extrapure AR	>99	215-540-4

Section 3 - Hazards Identification

Appearance: white to off-white solid.

Warning! Causes eye, skin, and respiratory tract irritation. May impair fertility. May cause harm to the unborn child. Hygroscopic (absorbs moisture from the air).

Target Organs: Respiratory system, eyes, reproductive system, skin.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Boric acid poisoning begins with nausea, vomiting and diarrhea. There is a red skin rash followed by extensive exfoliation not only in areas of rash but also of mucous membranes. Other symptoms may include weakness, headache, restlessness & kidney injury.

Inhalation: Causes respiratory tract irritation.

Chronic: Adverse reproductive effects have been reported in animals.

Section 4 - First Aid Measures



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Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Room temperature. Store in a tightly closed container. Store protected from moisture.

Section 8 - Exposure Control / Personal Protection



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Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name ACGIH NIOSH OSHA - Final PELs

Sodium tetraborate, anhydrous 2 mg/m³ TWA (inhalable fraction, listed under borate compounds, inorganic); 6 mg/m³ STEL (inhalable fraction, listed under borate compounds, inorganic) none listed 1 mg/m³ TWA

OSHA Vacated PELs: Sodium tetraborate, anhydrous: 10 mg/m³ TWA

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: white to off-white

Odor: odorless

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: 1575 deg C

Freezing/Melting Point: 741 deg C

Decomposition Temperature: Not available.

Solubility: 26 g/L

Specific Gravity/Density: 2.36 g/cm³

Molecular Formula: B₄Na₂O₇

Molecular Weight: 201.22

Section 10 - Stability and Reactivity



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Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Dust generation, exposure to moist air or water.

Incompatibilities with Other Materials: Strong acids, metallic salts, alkaloid salts.

Hazardous Decomposition Products: Oxides of boron.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 1330-43-4: ED4588000

LD50/LC50:

CAS# 1330-43-4:

Oral, mouse: LD50 = 1060 mg/kg;

Oral, rat: LD50 = 1200 mg/kg;

Carcinogenicity:

CAS# 1330-43-4: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: Fatalities have been reported from the misuse of boric acid in household products, but the occupational experience appears to be favorable, except for some cases of chronic irritation and eczema.

Teratogenicity: Developmental effects were observed in mice, rats and rabbits after oral administration of boric acid. However, these effects were considered secondary to maternal toxicity (increased liver and kidney weight).

Reproductive Effects: Boric acid has selectively damaged the testes, sperm production and fertility in rats and dogs.

Mutagenicity: No information found

Neurotoxicity: No information found

Other Studies:

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information



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US DOT Canada TDG

Shipping Name: Not regulated Not Regulated

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information



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US FEDERAL

TSCA

CAS# 1330-43-4 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 1330-43-4 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases: R 60 May impair fertility. R 61 May cause harm to the unborn child.

Safety Phrases:

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 53 Avoid exposure - obtain special instructions before use.



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WGK (Water Danger/Protection)

CAS# 1330-43-4: 1

Canada - DSL/NDSL

CAS# 1330-43-4 is listed on Canada's DSL List.

Canada - WHMIS

Section 16 - Other Information

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.