



SAFETY DATA SHEET

Preparation Date: 3/06/2015 Revision Date: 6/12/2018 Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: S1183

Product Name: SODIUM BORATE, DECAHYDRATE, NF

Other means of identification

Synonyms: Sodium pyroborate, decahydrate;

Borates, tetra, sodium salt, decahydrate;

INCI name is Sodium Borate;

Borax; Borax decahydrate; Boricin; Neobor; Solubor; Tronabor

CAS #: 1303-96-4
RTECS # VZ2275000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Preservative against wood fungus; artifical aging of wood; fireproofing of fabrics,

and woods; soldering metals; manufacture of glazes and enamels; curing orpreserving skins; tanning; vet pharmaceutic aid (alkalizing agent); antiseptic; detergent; astringent for mucous membranes; component of insulation glass fiber to enhance durability; in borosilicate glasses to imporve thermal properties;

germicidal agent in household cleaning products; powdered insecticide.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 2

Label elements

Warning

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Hazard statements

Causes serious eye irritation

Suspected of damaging fertility or the unborn child



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

May be harmful if swallowed

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Sodium Borate, Decahydrate	1303-96-4	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

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Symptoms Causes eye irritation

May cause skin irritation Nose and throat irritation

Nosebleeds Productive cough Chest tightness or pain

Dyspnea (Shortness of breath and difficulty breathing)

Dehydration

May cause abdominal pain, nausea, vomiting, diarrhea

Central nervous system effects

May cause headache

Weakness Convulsions Tremors Irritability

May cause metabolic acidosis

May affect the liver It may affect the kidneys

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media:No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: Not applicable. The product is not flammable.

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal

protective equipment. Do not touch damaged containers or spilled material unless wearing

appropriate protective clothing. Avoid dust formation.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent entry into waterways,

sewers.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Reducing agents Strong acids Metallic salts Zirconium

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Sodium Borate,	1303-96-4	None	5 mg/m³ TWA	6 mg/m ³ STEL	None
Decahydrate				inhalable particulate	
				matter	
				2 mg/m³ TWA	
				inhalable particulate	
				matter	

Canada

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Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Sodium Borate, Decahydrate	1303-96-4	1 mg/m³ TWA 3 ppm STEL	2 mg/m³ TWA inhalable 6 mg/m³ STEL inhalable	6 mg/m ³ STEL	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Sodium Borate, Decahydrate	1303-96-4	5 mg/m³ TWA	5 mg/m³ TWA

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. 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.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Safety glasses with side-shields

Skin and body protection: Long sleeved clothing

Chemical resistant apron

Gloves

Respiratory protection: Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:SolidCrystalline.White.

Odor: Taste Formula:

Odorless. Alkaline. Na2B4O7.10H2O

Molecular/Formula weight:Flammability:Flashpoint (°C/°F):381.37No information availableNo information available.

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not available No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available No information available 75°C/167°F

Boiling point/range(°C/°F):

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No information available Bulk density: Density (g/cm3):

No information available 1.73

Specific gravity: pH:

1.73 No information available

density:

No information available

VOC content (g/L):

Vapor pressure @ 20°C (kPa):

Evaporation rate: Vapor density:

No information available
No information available
No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available Soluble in cold water

Easily soluble in hot water

Solubility in Water: 1 g dissolves in 16

ml water; 0.6 ml boiling water

Solubility in Glycerol: 1 gram dissolves

in 1 ml glycerol. Insoluble in acids Insoluble in Alcohol

10. STABILITY AND REACTIVITY

Reactivity

Reactive with strong acids Reacts with reducing agents

Incompatible with alkaloidal salts, mercuric chloride, zinc sulfate and other metallic salts, mineral acids

Chemical stability

Stability: Stable at normal conditions. When heated it loses water, eventually forming anhydrous

borax (Na2B4O7). At 100 deg. C, it loses 5H2O; at 150 deg. C., it loses 9 H2O; it becomes anhydrous at 320 deg. C. Efflorescent in dry air, the crystals often being coated with white

powder.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Exposure to air. Avoid dust formation. Incompatible materials.

Incompatible Materials: Reducing agents

Strong acids Metallic salts Zirconium

Hazardous decomposition

products:

When heated to decomposition it emits toxic fumes. Sodium oxides. Boron. Boron

oxides.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product code: S1183 Product name: SODIUM BORATE, 6 / 12

Principal Routes of Exposure:

Ingestion. Inhalation. Eyes. Skin.

Acute Toxicity

Component Information

Sodium Borate, Decahydrate

CAS-No. 1303-96-4

LD50/oral/rat = 3493 mg/kg Oral LD50 Rat; 2660 mg/kg Oral LD50 Rat

LD50/oral/mouse = 2000 mg/kg **LD50/dermal/rabbit** = >10000 mg/kg

LD50/dermal/rat = No information available

LC50/inhalation/rat = > 2 mg/m³ Inhalation LC50 4 hr **LC50/inhalation/mouse** = No information available

Other LD50 or LC50information = 5330 mg/kg Oral LD50 Guinea Pig

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 3493 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 2000 mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = > 10000 mg/kg

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available **VALUE-Gas** = No information available **VALUE-Dust/Mist** = > 2 mg/m³ (4-hr.)

LC50/Inhalation/mouse

Product code: S1183

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation in sensitive individuals. Poorly absorbed through intact

skin, but can penetrate open wounds or abraded skin.

Eye Contact: Causes serious eye irritation.

Inhalation Exposure to high concentrations of borax dust may cause irritation of the nose,

throat and dryness of the mouth, nose, and throat. It may also cause nose bleeds,

sore throat, productive cough, shortness of breath and chest tightness.

Ingestion Acute toxic effects of borates in general are dehydration, abdominal or epigastric

pain, nausea, vomiting, diarrhea, and delayed skin redness, rash. It may also affect behavior/central nervous system (headache, excitement or depression, lethargy, weakness, seizures/convulsions, irritability, tremors, muscle contraction or spasticity, dizziness), liver (hepatitis, jaundice, hepatomegaly), kidneys (nephrosis, oliquria, albuminuria, anuria). In severe cases, low blood pressure,

(nephrosis, oliguria, albuminuria, anuria). In severe cases, low blood pressure,

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thready pulse, cold clammy skin, cyanosis, cardiac arrhythmias, acute renal failure, and metabolic acidosis may occur. Ingestion of over 1 gram can result in severe gastrointestinal irritation, kidney injury, and even death from central nervous system depression or vascular collapse, especially in infants. Ingestion of 5 to 10 grams can cause severe vomiting, diarrhea, shock and death.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Chronic exposures can produce eye irritation, coughing, and skin rash (the latter

following ingestion). Prolonged or repeated ingestion may affect the spleen, brain, blood (anemia), thyroid and may cause weight loss, liver, kidneys. It may also

cause mild gastrointestinal tract effects.

Prolonged or repeated inhalation can irritate the lungs. It may cause nosebleeds,

and bronchitis to develop with cough, phlegm, and/or shortness of breath.

Skin: Prolonged or repeated skin contact may cause dermatitis.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sodium Borate, Decahydrate	1303-96-4	Not listed	A4 Not Classifiable as a Human Carcinogen	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity Suspected of damaging fertility or the unborn child

Reproductive Effects: Possible risk of impaired fertility

Developmental Effects: Possible risk of harm to the unborn child

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposureSTOT - repeated exposure
No information available.

Target Organs: Respiratory system. Kidneys. Lungs.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

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Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sodium Borate, Decahydrate	1303-96-4	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Class
Packing group:
No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
No information available
No information available
No information available
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:

No information available
No information available

Packing Group: No information available
Marine Pollutant No information available

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

ICAO

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
ERG Code:
No information available

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Sodium Borate,	1303-96-4	PresentACTIV	Present	Present	Present (1)-69	Present	Present	Not present
Decahydrate		E	KE-03483			[25548]		

U.S. Regulations

Sodium Borate, Decahydrate

Massachusetts RTK: Present Pennsylvania RTK: Present

Minnesota - Hazardous Substance List: Present

California Directors List of Hazardous Substances: Present

FDA - 21 CFR - Total Food Additives 175.105, 175.210, 176.180, 177.2800, 181.30

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
			,	Reproductive	Reproductive
				Toxicity	Toxicity:
Sodium Borate, Decahydrate	1303-96-4	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components CAS-No.	CERCLA -	Section 302	Section 302	Section 313 -	Section 313 -
	Hazardous	Extremely	Extremely	Chemical Category	Reporting

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		Substances and their Reportable Quantities	Hazardous Substances and TPQs	Hazardous Substances and RQs		de minimis
Sodium Borate, Decahydrate	1303-96-4	None	None	None	None	None

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sodium Borate, Decahydrate	1303-96-4	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification

Information:

Component

Sodium Borate, Decahydrate

1303-96-4 (100)

WHMIS 2015 Hazard Classification

Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Reproductive Toxicity - Category 1: H360 May damage fertility or the unborn child.; Specific target organ toxicity - Single exposure - Category 3: H335 May cause

respiratory irritation.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

D2B Toxic materials

Components WHMIS 1988

Sodium Borate, Decahydrate

D2B

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Sodium Borate, Decahydrate	1 %

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Sodium Borate, Decahydrate	1303-96-4	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Sodium Borate, Decahydrate	1303-96-4	Not listed
Components		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Sodium Borate, Decahydrate	1303-96-4	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Sodium Borate, Decahydrate	1303-96-4	Reproductive Toxicity - Repr. 1B:
		H360FD May damage fertility. May
		damage the unborn child. (C >= 8.5
		%)005-011-01-1

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EU - CLP (1272/2008)

R-phrase(s)

R60 - May impair fertility.

R61 - May cause harm to the unborn child.

S -phrase(s)

S53 - Avoid exposure - obtain special instructions before use.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Components	CAS-No.	Concentration Limits:	Safety Phrases
Sodium Borate, Decahydrate	1303-96-4	 8.5%<=C Repr.Cat.2; R60-61	S53 S45

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

T - Toxic



16. OTHER INFORMATION

Preparation Date: 3/06/2015 **Revision Date:** 6/12/2018 Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product code: S1183 Product name: SODIUM BORATE, 12/12