Boric Acid

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Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Boric Acid Science education applications Boracic Acid, Borofax, Trihydroxyborane Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER

Section 2



May damage fertility or the unborn child.

GHS Classification: Reproductive Toxicity Category 1B

Other Safety Precautions:

IF exposed or concerned: Get medical advice/attention.

Section 3

Section 4

Section 5

Composition / Information on Ingredients

Chemical	Name
Boric Acid	

First Aid Measures

CAS #

10043-35-3

%

100

Emergency and First Aid Procedures

Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact:	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Firefighting Procedures

Section 6	Spill or Leak Procedures
Hazardous Combustion Products:	Boron Compounds
Fire and/or Explosion Hazards:	Fire or excessive heat may produce hazardous decomposition products.
Extinguishing Media: Fire Fighting Methods and Protection:	Use media suitable to extinguish surrounding fire. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

Handling:

Storage:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid contact with skin and eyes. Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8

Protection Information

Chemical Name Boric Acid	<u>(TWA)</u> 2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic)	<u>SIH</u> (<u>STEL</u>) 6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)	(TWA) N/A	<u>A PEL</u> (STEL) N/A	
Control Parameters Engineering Measures: Personal Protective Equipment (PPE): Respiratory Protection: Respirator Type(s): Eye Protection: Skin Protection:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Lab coat, apron, eye wash, safety shower. No respiratory protection required under normal conditions of use. NIOSH approved air purifying respirator with dust/mist filter. Wear chemical splash goggles when handling this product. Have an eye wash station available. Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving				
Gloves:	work. No information available				

Section 9

Formula: BH3O3 Molecular Weight: 61.84 Appearance: White Crystals Odor: None Odor Threshold: No data available pH: No data available Melting Point: 168 - 171 C Boiling Point: 300 C Flash Point: No data available Flammable Limits in Air: No data available.

Physical Data

Vapor Pressure: 2.6 @ 20°C Evaporation Rate (BuAc=1): No data available. Vapor Density (Air=1): No data available. Specific Gravity: 1.435 @ 15°C Solubility in Water: Slightly Soluble Log Pow (calculated): -0.757 Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: No data available.

Section 10

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization: Not generally reactive under normal conditions. Stable under normal conditions. None known. Acetic anhydride, Alkali Carbonates, Hydroxides, Alkali and Alkaline Metals Boron Compounds Will not occur

Reactivity Data

Section 11

Toxicity Data

Section 11		ΤΟΧΙΟΙΙ	y Dala			
Routes of Entry Symptoms (Acute): Delayed Effects:	Ingestion. Seizures, Dermititis, Re Dermititis Alopecia Erythema	espiratory Irritation, C	Central Nervous	System Disorders		
Acute Toxicity: Chemical Name Boric Acid		CAS Number 10043-35-3	Oral LD5 Oral LD50 Ra 2660 mg/kg			Inhalation LC50 ot determined
Carcinogenicity: Chemical Name Boric Acid		CAS Number 10043-35-3	IARC Listed	NT Not listed		OSHA ot listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:		genic effect (birth def nsitization effect. e reproductive effects amplified in infants.				
Section 12		Ec	ological D	ata		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	No data No data No data No data	l is not expected to b	e harmful to the	ecology.		
Chemical Name Boric Acid			co Toxicity 8 HR EC50 DAP	Phnia Magna 11	5 - 153 MG/L	
Section 13		Dispo	osal Inforn	nation		
Disposal Methods: Waste Disposal Code	conta	ose in accordance wi act a permitted waste Determined				tions. Always
Section 14		Trans	port Infori	mation		
Ground - DOT Proper Not regulated for transp	roper Shipping Name:Air - IATA Proper Shipping Name:transport by US DOT.Not regulated for air transport by IATA.					
Section 15		Regula	atory Infor	mation		
TSCA Status:	All co	All components in this product are on the TSCA Inventory.				
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Boric Acid	10043-35	5-3 No	No	No	No	No
alifornia Prop 65:			No California Pr	roposition 65 ingre	dients	
Section 16					Additi Inform	

Revised: 08/21/2018

Replaces: 06/15/2018

Printed: 08-25-2018

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health