

Safety Data Sheet

ITEM# 80-090

SAFETY DATA SHEET

Creation Date 07-Apr-2009

Revision Date 19-Jan-2018

Revision Number 4

1. Identification

Product Name

Boric acid

Cat No. :

AC315180000, AC315180025; AC315181000, AC315185000;

CAS-No

Synonyms

Boracic acid; Orthoboric acid.; Hydrogen borate

Recommended Use Uses advised against

Laboratory chemicals.

Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Romanoff International Supply Corporation

9 Deforest Street Amityville, NY 11701 US Tel: 631-842-2400

Emergency Telephone Number

CHEM TEL, Account# MIS4594445

United States, Canada, Puerto Rico & U.S. Virgin Islands: 1-800-255-3924,

Australia: 1-300-954-583, Brasil: 0-800-591-6042, China: 400-120-0751, India: 000-800-100-4086,

Mexico: 800-099-0731 ALL OTHER COUNTRIES: 1-813-248-0585

2. Hazard(s) identification

Classification

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

Reproductive Toxicity

Category 1B

Label Elements

Signal Word

Danger

Hazard Statements

May damage fertility. May damage the unborn child



Precautionary Statements Prevention

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Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Do not breathe dust/fume/gas/mist/vapors/spray

Response

IF exposed or concerned: Get medical attention/advice

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

	 Comment
Weight %	Component
>95	Boric acid (H3BO3)
	20110 dold (110000)

4. First-aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if

symptoms occur.

Inhalation

Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately if

symptoms occur. If not breathing, give artificial respiration.

Ingestion

Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms and

effects

No information available,

Notes to Physician

Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

No information available

Flash Point Method -

No information available No information available

Autoignition Temperature

Explosion Limits

Upper

No data available

Lower Sensitivity to Mechanical Impact No information available

No data available

Sensitivity to Static Discharge

No information available

Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous Combustion Products

Oxides of boron

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health 2

Flammability 0

Instability 1

Physical hazards N/A

6. Accidental release measures

Personal Precautions

Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

Environmental Precautions

Should not be released into the environment. See Section 12 for additional ecological

information.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

7. Handling and storage

Handling

Wear personal protective equipment. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not ingest.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	Modifier	T 2
Boric acid (H3BO3)	TWA: 2 mg/m ³	OOMATEL	NIOSH IDLH	Mexico OEL (TWA)
	STEL: 6 mg/m ³			

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection

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 and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State Appearance Odor Odor Threshold Solid White Odorless

pH Melting Point/Range Boiling Point/Range

No information available 3.8-4.8 33 g/l aq.sol 169 °C / 336.2 °F No information available

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Flash Point

Evaporation Rate

Flammability (solid,gas)

Flammability or explosive limits

Upper

Lower Vapor Pressure Vapor Density

Specific Gravity

Solubility

Partition coefficient; n-octanol/water

Autoignition Temperature Decomposition Temperature

Viscosity

Molecular Formula Molecular Weight No information available

Not applicable

No information available

No data available

No data available

2.7 mbar @ 20 °C

Not applicable

No information available

soluble

No data available

100 °C

100 °C

Not applicable

H3 B O3 61.83

10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability

Moisture sensitive.

Conditions to Avoid

Incompatible products. Excess heat. Avoid dust formation. Exposure to moisture.

Incompatible Materials

Strong oxidizing agents, Strong bases

Hazardous Decomposition Products Oxides of boron

Hazardous Polymerization

Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

	LD50 Dermal	LC50 Inhalation
LD50 = 2660 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	Not listed
	LD50 Oral LD50 = 2660 mg/kg (Rat)	LD50 Definal

Toxicologically Synergistic Products

No information available

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

Irritation

Irritating to eyes and skin

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Boric acid (H3BO3)	10043-35-3	Not listed	Not listed			
ACCILL (A	0 6	rectilisted	1 Not listed	Not listed	Not listed	Not listed

ACGIH: (American Conference of Governmental Industrial

Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

Mutagenic Effects

No information available

Reproductive Effects

Adverse reproductive effects have occurred in humans.

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Developmental Effects

May cause harm to the unborn child. Developmental effects have occurred in experimental

animals.

Teratogenicity

Teratogenic effects have occurred in experimental animals.

STOT - single exposure STOT - repeated exposure

None known None known

Aspiration hazard

No information available

Symptoms / effects,both acute and No information available

delayed

Endocrine Disruptor Information

No information available

Other Adverse Effects

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains. .

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Boric acid (H3BO3)	-	Gambusia affinis: LC50: 5600 mg/L/96h	-	EC50: 115 - 153 mg/L, 48 (Daphnia magna)

Persistence and Degradability

Persistence is unlikely

Bioaccumulation/ Accumulation

No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

Component	
Tomponent	log Pow
Boric acid (H3BO3)	-0.757

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT TDG IATA IMDG/IMO	Not regulated Not regulated Not regulated Not regulated Not regulated
760	15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	FNCS	AICS	IECSC	KECI
Boric acid (H3BO3)	X	X	-	233-139-2			V	ZIVOO	AICO	ILCOC	NEUL

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Not applicable

SARA 313

Not applicable

SARA 311/312 Hazard Categories

See section 2 for more information

CWA (Clean Water Act)

Not applicable

Clean Air Act

Not applicable

OSHA Occupational Safety and Health Administration

Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Boric acid (H3BO3)	_	Y		minois	Knode Island
, , , , , ,		^	- 1	X	_

U.S. Department of Transportation

Reportable Quantity (RQ):

N

DOT Marine Pollutant

N

DOT Severe Marine Pollutant

N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

16. Other information

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Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS