



Issuing Date: 23-Dec-1997

Revision Date: 11-July-2018

Rev. 5

## 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

**Product Name:** Boric Acid  
**Product Code:** IB70096  
**Recommend Use:** For further manufacturing use only  
Not for human or animal drug use  
Buffer specifically formulated for use in biological systems  
**Synonyms:** BORACIC ACID \* BOROFAK \*  
**Company:** IBI SCIENTIFIC  
7445 Chavenelle Road  
Dubuque, IA 52002  
**Emergency Tele. Number:** 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703  
**Company Tele. Number:** 1-800-253-4942 / (001) 563-690-0484  
**E-Mail Address:** [info@ibisci.com](mailto:info@ibisci.com)

## 2. HAZARDOUS IDENTIFICATION

### GHS – Classification

**Classification:** Toxic to Reproduction 1B Skin Irritant 2 Eye Irritant 2  
**Signal Word:** Danger



**Hazard Statements:** H303-May be harmful if swallowed \* H360-May damage fertility or the unborn child \*  
H315-Causes skin irritation \* H319-Causes serious eye irritation \* H335-May cause  
respiratory irritation

**Precautionary Statements:** P201-Obtain special instruction before use \* P308+P313-IF EXPOSED or  
CONCERNED: Get medical attention/advise \* P280-Wear protective gloves/protective  
clothing/eye protection/face protection \* P302+P352-IF ON SKIN: Wash with plenty of  
soap and water \* P304+P340-IF INHALED: Remove victim to fresh air and keep at rest  
in a position comfortable for breathing \* P305+P351+P338-IF IN EYES: Rinse  
cautiously with water for several minutes. Remove contact lenses, if present and easy to  
do. Continue rinsing.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Name:** Boric Acid  
**EC No.:** EEC No. 233-139-2  
**REACH Reg. No.:** Not Available  
**CAS No.:** 10043-35-3  
**Weight %:** 95 – 100  
**Classification:** -

### 4. FIRST AID MEASURES

**Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
**Skin Contact:** Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes.  
**Inhalation:** Move to fresh air. If breathing becomes difficult, give oxygen.  
**Ingestion:** Clean mouth with water and afterwards drink plenty of water.  
**Notes to Physician:** Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** Not flammable  
**Flash Point:** Not determined  
**Suitable Extinguishing Media:** Dry chemical, CO<sub>2</sub>, water spray, or alcohol-resistant foam  
**Hazardous Combustion Products:** Carbon oxides, Emits toxic fumes.  
**Explosion Data**  
     Sensitivity to Mechanical Impact: Not sensitive  
     Sensitivity to Static Discharge: Not sensitive  
**Protective Equip. & Precautions for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.  
**Methods for Containment:** Prevent further leakage or spillage, if safe to do so.  
**Methods for Cleaning Up:** Pick up and transfer to properly labeled containers.

### 7. HANDLING AND STORAGE

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing.  
**Storage:** Hygroscopic. Keep container tightly closed in a dry and well ventilated place.  
**Incompatible Products:** Anhydrides. Potassium.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Chemical Name:** Boric Acid - #10043-35-3  
**ACGIH TLV:** STEL = 6mg/m<sup>3</sup>  
                           TWA = 2mg/m<sup>3</sup>  
**OSHA PEL:** -  
**NIOSH IDLH:** -  
**Engineering Measures:** Showers, Eyewash Stations, Ventilation Systems

### **Personal Protective Equipment**

Eye/Face Protection:	Safety glasses with side-shields. Avoid contact with eyes.
Skin & Body Protection:	Wear protective gloves/clothing.
Respiratory Protection:	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
<b>Hygiene Measures:</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White powder
<b>Odor:</b>	No information available
<b>Odor Threshold:</b>	No information available
<b>Decomposition Temp. °C:</b>	No information available
<b>Freezing Point:</b>	No information available
<b>Initial Boiling Point:</b>	No information available
<b>Physical State:</b>	Powder
<b>pH:</b>	As 3.3% solution: 3.8-4.8
<b>Flash Point:</b>	No data available
<b>Autoignition Temp. °C:</b>	No data available
<b>Boiling Point/Range:</b>	No data available
<b>Melting Point/Range:</b>	No data available
<b>Flammability Limits (Air):</b>	<u>Upper</u> -No data available * <u>Lower</u> -No data available
<b>Explosive Properties:</b>	No information available
<b>Oxidizing Properties:</b>	No information available
<b>Evaporation Rate:</b>	No data available
<b>MMHG @ 37.8°C:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>Specific Gravity:</b>	1.435
<b>Solubility:</b>	No information available
<b>Water Solubility:</b>	No data available
<b>Partition Coefficient (n-octanol/water):</b>	No data available
<b>Viscosity:</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions
<b>Incompatible Products:</b>	Anhydrides, Potassium
<b>Conditions to Avoid:</b>	Protect from moisture
<b>Hazardous Decomposition Products:</b>	Carbon oxides, Boron compounds
<b>Hazardous Polymerization:</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### **Acute Toxicity**

Product Information:	Causes skin, eye, and respiratory tract irritation
Chemical Name:	Boric Acid - #10043-35-3
LD50 Oral:	2660mg/kg (Rat)
LD50 Dermal:	2000mg/kg (Rabbit)
LC50 Inhalation:	-

### **Chronic Toxicity**

Chronic Toxicity:	No known effect based on information supplied.
<b>Reproductive Toxicity:</b>	May impair fertility. May cause harm to the unborn child.
<b>Target Organ Effects:</b>	Liver, Kidneys, Central Nervous System(CNS), Reproductive System

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	Harmful to aquatic organisms
Chemical Name:	Boric Acid - #10043-35-3
Toxicity to Algae:	-
Toxicity to Fish:	-
Microtox	-
Daphnia Magna (Water Flea):	EC50 = 658-875mg/L (48hr) EC50 = 115.0mg/L (48hr)
Log Pow	-0.757 @ 25°C

**13. DISPOSAL CONSIDERATIONS**

<b>Water Disposal Method:</b>	Dispose of material in accordance with all federal, state, and local regulations.
<b>Contaminated Packaging:</b>	Dispose of in accordance with all federal, state, and local regulations.

**14. TRANSPORT INFORMATION****IATA**

Not regulated

**US DOT**

Not regulated

**15. TOXICOLOGICAL INFORMATION****REACH Title VII Restrictions**

Chemical Name:	No information available Boric Acid - #10043-35-3
Dangerous Substances:	Not applicable
Organic Solvents:	Not applicable
Harmful Substances Whose Names are to be indicated on the Label:	Not applicable
Pollution Release and Transfer Registry (Class II):	Not applicable
Pollution Release and Transfer Registry (Class I):	Not applicable
Poison and Deleterious Substances Control Law:	Not applicable
ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying:	Not applicable
ISHA – Harmful Substances Requiring Permission:	Not applicable
Toxic Chemical Classification Listing (TCCL):	Not applicable
Toxic Release Inventory (TRI) – Group I:	Not applicable
Toxic Release Inventory (TRI) – Group II:	>=1.0%

**International Inventories**

TSCA:	Complies
DSL:	Complies
EINECS/ELINCS:	Complies
ENCS:	Complies
IECSC:	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain a chemical/chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**Clean Air Act**

Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61). This product contains the following substances which are listed hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act.

**CERCLA**

U.S. State Regulations

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**State**

Massachusetts	-
New Jersey	X
Pennsylvania	-
Illinois	-
Rhode Island	-

International Regulations

**Mexico**

No information available

**Canada**

No information available

**WHMIS Hazard Class**

D2B Toxic materials

D2A – Very toxic materials



**16. OTHER INFORMATION**

**Issuing Date:** 23-Dec-1997

**Revision Date:** 11-July-2018

**Revision Note:** Updated address and logo

**Recommended Restrictions:** No information available

**Disclaimer:** The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal, and release; and is not to be considered as 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 material or in any process, unless specified in the test.

**End of Safety Data Sheet**