IBI *SCIENTIFIC*
9861 Kapp Court ■ Peosta, IA 52068
Tele: (563) 690-0484 ■ 1-800-253-4942
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Issuing Date: 23-Dec-1997 Revision Date: 21-Dec-2011 Rev. 3

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 * BOROFAX *
Company:	IBI SCIENTIFIC 9861 Kapp Court Peosta, IA 52068
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

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_2, 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-contaimed 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 formatiom.
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^3
TWA = 2mg/m^3
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.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions
Incompatible Products:	Anhydrides, Potassium
Conditions to Avoid:	Protect from moisture
Hazardous Decomposition Products:	Carbon oxides, Boron compounds
Hazardous Polymerization:	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.
Reproductive Toxicity:	May impair fertility. My cause harm to the unborn child.
Target Organ Effects:	Liver, Kidneys, Central Nervous System(CNS), Reproductive System

12. ECOLOGICAL INFORMATION

Ecotoxicity:	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

Water Disposal Method: Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging: 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	No information available
Chemical Name:	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 contains 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: 21-Dec-2011

Revision Note: Update to GHS Standard

Recommended Restrictions: No information available

Disclaimer: The information provided on this MSDS 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 MSDS