

# HB Chemical Corporation

Page 1 of 3  
Date: December 10, 2010  
Replaces: Mar. 15, 2005

## MATERIAL SAFETY DATA SHEET

### SECTION I

### CHEMICAL and COMPANY IDENTIFICATION

**PRODUCT:** *Zinc Borate*  
**CHEMICAL NAME:** *Boric Acid, Zinc Salt*  
**COMMON/GENERIC NAME:** zinc borate  
**CHEMICAL FAMILY:** Inorganic Borates  
**PRODUCER:** China  
**DISTRIBUTOR:** H B Chemical Co. - Customer Service 330-920-8023  
**EMERGENCY NUMBERS:** CHEMTREC 800-424-9300; CANUTEC(Canada) 613-996-6666

### SECTION II

### COMPOSITION / INGREDIENT INFORMATION

	<u>OSHA PEL</u>	<u>EU TWA</u>
<b>COMPOSITION:</b> Zinc Borate, 100% C.A.S.# 1332-07-6		

### SECTION III/IV

### HAZARDS / FIRST AID PROCEDURES

**EMERGENCY OVERVIEW:** A white powder that can cause irritation to the respiratory tract. Prolonged exposure to the skin, eyes and respiratory tract may cause irritation. Ingestion is harmful and should be avoided. Not considered a fire or explosion hazard.

**EYE:** Can cause severe irritation. Flush with large amounts of water for 30 minutes. If irritation persists seek medical attention immediately.

**SKIN:** Prolonged contact may cause irritation and possibly skin eruptions, bubbles and lesions referred to as antimony measles. Wash skin thoroughly with soap and water. If irritation continues seek medical attention.

**INGESTION:** Seek medical attention.

**INHALATION:** Can irritate the nose, throat and lungs causing coughing, wheezing and/or shortness of breath. Remove to fresh air; give artificial respiration or oxygen if necessary.

**TOXICITY:** LD 50 Dermal (rabbit) > 2g/kg  
LD 50 Oral (rat) > 34.6 g/kg

**CARCINOGENICITY:** Not listed by NTP, IARC or OSHA

IN ALL CASES OF EMERGENCY, CONTACT A PHYSICIAN

### SECTION V

### FIRE AND EXPLOSION INFORMATION

**FLASH POINT:** Not Available

**FIRE-FIGHTING PROCEDURES:** Not combustible.

**HAZARDOUS COMBUSTION PRODUCTS:** None, When exposed to heat emits irritating fumes

**PROTECTIVE EQUIPMENT:** Full eye protection and protective clothing are required for all indoor/outdoor spills.

Corporate Office:  
140 E. Ascot Ln.  
Cuyahoga Falls, Ohio 44223

Tel. 330-920-8023  
Fax 330-920-0971

# HB Chemical Corporation

Antimony Oxide Page 2 of 3

---

---

## SECTION VI SPILLS AND ENVIRONMENTAL INFORMATION

**SPILL OR LEAK PRECAUTIONS:** Wear appropriate protective clothing, gloves and equipment. Transfer to secure containers and dispose of according to local and state regulations. Thought should always be given to collecting the material in such a manner that it could be recycled. Clean/scrub affected area with detergent. Major spills should also be reported to the National Response Center. Spills with potential to contaminate coastal waterways must be reported to the U.S. Coast Guard (800-424-8802)

**WASTE DISPOSAL:** All containers should be effectively labeled to facilitate the appropriate disposal or reclaim. Discarded bags or open fiber drums containing residual product.

---

---

## SECTION VII HANDLING AND STORAGE

Store in sealed containers in cool, dry conditions. Store in well ventilated dry area. Store away from acids, alkalis and reducing agents. Avoid dust collection.

Wear gloves, long sleeve shirt and eye protection when handling. Do not eat, drink or smoke in the workplace

---

---

## SECTION VIII EXPOSURE CONTROLS AND PERSONAL PROTECTION

**VENTILATION:** Use only where sufficient ventilation exists to keep exposure levels of fumes and dust below recommended levels.

**RESPIRATORY AND PERSONAL PROTECTION:** Respirators should be selected when TWA is exceeded (up to 50 times the exposure limit). Safety glasses with side shields; gloves, boots and apron as appropriate.

**FACILITIES:** There should be a shower facility and eyewash in the building where this product is being stored and handled. Exercise good chemical handling practice.

---

---

## SECTION IX PHYSICAL AND CHEMICAL INFORMATION

Appearance: White powder	Specific Gravity @20°C = 2.7
Melts at 650°C	Solubility in Water: <.28 % @ 25 C
Vapor Pressure: 0.406 mmHg at 550C	Density:
Boiling Point: NA	

---

---

## SECTION X STABILITY AND REACTIVITY

Under normal storage conditions, this product a) is stable; b) will not polymerize or exotherm if in tightly sealed package; c) avoid, acids, bases, reducing agents, strong oxidizers.

---

---

## SECTION XI TOXICOLOGICAL INFORMATION

Not testes

Corporate Office:  
140 E. Ascot Ln.  
Cuyahoga Falls, Ohio 44223

Tel. 330-920-8023  
Fax 330-920-0971

# HB Chemical Corporation

## SECTION XII

### ECOLOGICAL INFORMATION

Mobility – Virtually insoluble in water. May cause dust  
Biodegradability: Not biologically degradable  
Ecotoxicity: This product is classified to be very toxic to aquatic organisms, and may cause long-term adverse effects in the aquatic environment  
More Information: Avoid infiltration into waste water drainings or soil.

## SECTION XIII

### DISPOSAL CONSIDERATIONS

Landfill in a permitted hazardous waste facility in accordance with all regulatory requirements is the preferred method of disposal. (small quantities of zinc borate can be disposed in landfill sites but seek and consult local regulations. Empty containers can be rinsed with a suitable solvent/surfactant and steamed to remove residual product and fumes before disposal or reuse in accordance with applicable regulations. For spill clean-up procedures see Sect.VI. Avoid dusting.

## SECTION XIV

### TRANSPORTATION INFORMATION

**DOT:** Class 9 (environmental hazard)  
**CANADA TRANSPORT HAZ.GOODS:** Not regulated  
**AIR (IATA/ICAO):** N/A  
**EUROPEAN TRANSPORTATION:** ND  
**US CUSTOMS:** - HARMONIZED TARIFF CODE: ND  
**Packaging class:** III

## SECTION XV

### REGULATORY INFORMATION

**OSHA:** Osha (29CFR 1910.1200) and OSHA (title 8 CCR 5194 (g)) hazard communication standards  
**SARA TITLE III:**

**Zinc Borate is listed under CERCLA as a hazardous substance with a reportable quantity of 1,000 lbs (454 kg), 42 USC 9604, 40 CFR 302. Zinc Borate appears on the Emergency planning and Community right to Know Act (EPCRA) or Superfund Amendments and Reauthorization Act (SARA), section 313, toxic Chemicals release inventory list under zinc compounds, 42 USC 11023, 40 CFR 372.65. Zinc Borate is not listed under section 302 of SARA, extremely hazardous substances, 42 USC 11002, 40 CFR 355, but because it is a CERCLA hazardous substance, emergency release reporting under SARA may be required if offsite release exceed RQ.**

**RCRA Status:** No

**TSCA REGULATORY:** All intentional ingredients are listed in the TSCA Inventory.

**CANADA WHMIS HAZARD SYMBOL AND CLASS:** Class D division 2 – materials causing other toxic effects

**CANADA INGREDIENT DISCLOSURE LIST:** ND All intentional ingredients are on the DSL.

## SECTION XVI OTHER INFORMATION

HMIS Label: Health: 2  
Fire: 0  
Reactivity: 0

Corporate Office:  
140 E. Ascot Ln.  
Cuyahoga Falls, Ohio 44223

Tel. 330-920-8023  
Fax 330-920-0971

# HB Chemical Corporation

Protection: C

---

---

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other or additional considerations.

Corporate Office:  
140 E. Ascot Ln.  
Cuyahoga Falls, Ohio 44223

Tel. 330-920-8023  
Fax 330-920-0971