

# MATERIAL SAFETY DATA SHEET

## ANTI-BORAX CLIMAX

DATE REVISED: January 1, 2011

**Product Name:** Anti-Borax Climax

**Manufacturer:** Superior Flux & Mfg. Co. 6615 Parkland Blvd. Cleveland, OH 44139

**Emergency Phone Number:** 1-800-424-9300 (CHEMTREC)

**Other Information Calls:** (440) 349-3000

**To the Purchaser:** This MSDS contains important environmental, health, and toxicology information for your employees who have ordered this product. Please be sure this information is given to them. If you resell this product, a copy of the MSDS should be given to the buyer.

**H.M.I.S. INFORMATION: HEALTH = 1      FLAMMABILITY = 0      REACTIVITY = 1**

### SECTION I – IDENTIFICATION

**Common Name:** Anti-Borax Climax

**Chemical Family:** Cast iron flux

**CAS Number:** NA

**Chemical Name:** NA

**Formula:** See below

### SECTION II - COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL
Boric Acid	10043-35-3	10-30	10 mg/m <sup>3</sup>
Slag	FEO-FE203-FE304	45-55	10 mg/m <sup>3</sup>
Steel Chips	1309-37-1	35-45	10 mg/m <sup>3</sup>

Unlisted percentages are non-hazardous stabilizers, and water. None of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens.

### SECTION III - HEALTH HAZARDS

**Primary Routes of Entry into Body:** Fume inhalation, ingestion, skin, and eyes.

**Symptoms of Overexposure:** Salivation, coughing, and shortness of breath, weight loss, brittle bones, and stiff joints.

**Medical Conditions Generally Aggravated by Exposure:** Any weakness of the lungs, kidneys or liver.

**Chemical Listed as Carcinogen or Potential Carcinogen:** None

**OSHA Permissible Exposure Limit (PEL):** 10 mg/m<sup>3</sup>

**ACGIH Threshold Limit Value (TLV):** 10 mg/m<sup>3</sup>

### SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

**Inhalation:** Remove to fresh air

**Eyes:** Flush with water for 15 minutes. Call physician.

**Skin:** Wash with soap and water.

**Ingestion:** Give milk or water, call a physician.

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## **SECTION V - FIRE AND EXPLOSION HAZARD DATA**

**Flash Point: (Method Used):** None

**Flammable Limits:** Lower-NA, upper-NA

**Extinguishing Media:** Not needed

**Auto Ignition Temperature:** None

**Special Fire Fighting Procedures:** Normal caution when using chemicals

**Unusual Fire and Explosion Hazards:** Fluorides

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## **SECTION VI - ACCIDENTAL RELEASE MEASURES**

**Steps to be taken in Case Material is spilled:** Sweep up and collect for disposal and flush remaining material with lots of water.

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## **SECTION VII - HANDLING AND STORAGE**

**Precautions to be Taken in Handling and Storage:** Normal care.

**Work/Hygienic Practices:** Avoid contact with skin, eyes and clothing.

**Other Precautions:** NA

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## **SECTION VIII - CONTROL MEASURES**

**Ventilation:** Yes

**Local Exhaust:** Yes

**Protective Gloves:** Vinyl or rubber

**Eye Protection:** Safety goggles

**Mechanical (General):** Yes

**Respiratory Protection (Type):** Rubber apron

**Other Protective Clothing or Equipment:** NA

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## **SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS**

**Boiling Point:** NA

**Specific Gravity (Water = 1):** NA

**Vapor Pressure (mm Hg):** NA

**Percent Volatile by Volume:** 0%

**Vapor Density (Air = 1):** NA

**Evaporation Rate (Butyl Acetate = 1):** NA

**Melting Point:** 982-1400<sup>0</sup>C/1800-2552<sup>0</sup>F

**Solubility in Water:** Limited

**Reactivity in Water:** None

**Appearance and Odor:** Tan with grey chips powder

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## **SECTION X - STABILITY AND REACTIVITY**

**Stability:** Product is stable

**(Conditions to Avoid):** NA

**Incompatibility:** NA

**Hazardous Decomposition Products:** BF<sub>3</sub>, B<sub>2</sub>O<sub>3</sub>, and P<sub>2</sub>O<sub>5</sub>. With high heat.

**Hazardous Polymerization:** Will not occur

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## SECTION XI - TOXICOLOGICAL INFORMATION

### Acute Toxicity Data

- 1) **Oral:** LD-50 (rat): Not available
- 2) **Inhalation:** LC-50 (rat): Not available
- 3) **Dermal:** LD-50 (rabbit): Not available
- 4) **Skin Irritation:** (rabbit): Not available

### Chronic Toxicity Data

- 1) **Repeated Skin Application:** (rat): Not available
  - 2) **Eye Irritation:** (rabbit): Not available
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## SECTION XII - ECOLOGICAL INFORMATION

**This material has not been tested for environmental effects.**

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## SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose of in accordance with EPA regulations

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## SECTION XIV - TRANSPORTATION

**D.O.T. Proper Shipping Name:** Non-hazardous

**Hazard Class:** NA

**Identification Number:** NA

**Packing Group:** NA

**Type D.O.T Label Required Information:** NA

**Waste Disposal Method:** Dispose in accordance with EPA regulations.

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## SECTION XV - REGULATORY INFORMATION

**OSHA Hazardous Chemical According to 29 CFR 1910.1200:** NA

**Carcinogenicity Classification: (Components Present at 0.1 % or More)**

**International Agency for Research on Cancer (IARC):** NA

**American Conference of Governmental Industrial Hygienists (ACGIH):** NA

**National Toxicology Program (NTP):** NA

**Occupational Safety and Health Administration (OSHA):** NA

**All Components of this Product are Listed on the U.S. Toxic Substances Control Act Inventory or Otherwise Comply with TSCA Pre-manufacture Notification Requirements.**

**This Product is RoHS Compliant.**

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## SECTION XVI - OTHER INFORMATION

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