SAFETY DATA SHEET
ANTI-BORAX No. 4
DATE REVISED: January 1, 2017

Product Name: Anti-Borax No. 4
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 = 2  FLAMMABILITY = 0  REACTIVITY = 0

SECTION I - IDENTIFICATION

Common Name: Anti-Borax No. 4
Chemical Family: High temperature brazing powder flux
CAS Number: NA
Chemical Name: NA
Formula: See below

SECTION II – HAZARDS IDENTIFICATION

Classification of Substance or Mixture:

Classification (CLP): NA
Label Elements (CLP): NA
Signal Word: Danger

Risk Phrases: R36/37/38, R60/61
See section XVI for full text description of S and R phrases
Other Hazards: None if used properly

SECTION III- COMPOSITION INFORMATION

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>%</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boric Acid</td>
<td>10043-35-3</td>
<td>45-55</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Borax</td>
<td>1303-96-4</td>
<td>15-20</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

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 IV – FIRST AID MEASURES

**Inhalation:** Remove to fresh air  
**Eyes:** Flush with water for fifteen (15) Minutes. Call physician.  
**Skin:** Wash thoroughly with water.  
**Ingestion:** If patient is fully conscious, give large amounts of water. Obtain medical attention immediately.

Most Important Symptoms and effects, both acute and delayed  
**Primary Routes of Entry into Body:** Fume inhalation, ingestion, skin, and eyes.  
**Symptoms of Overexposure:** Salivation, coughing, choking, chills, may cause weight loss, brittle bones, anemia, and stiff joints.  
**Medical Conditions Generally Aggravated by Exposure:** Any weakness of the lungs, kidneys or liver will be aggravated.  
**Chemical Listed as Carcinogen or Potential Carcinogen:** None  
**OSHA Permissible Exposure Limit (PEL):** NA  
**ACGIH Threshold Limit Value (TLV):** NA

SECTION V - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** None  
**Flammable Limits:** Lower-NA upper-NA  
**Extinguishing Media:** Not needed  
**Auto Ignition Temperature:** None  
**Special Fire Fighting Procedures:** Normal caution when dealing with chemicals  
**Unusual Fire and Explosion Hazards:** Boric oxide fumes

SECTION VI - ACCIDENTAL RELEASE MEASURES

**Steps to be taken in case material is spilled:** Clean up powder and flush remaining material with lots of water

SECTION VII - HANDLING AND STORAGE

**Storage Requirements:** Store in plastic containers in cool area. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.  
**Handling Precautions:** Keep containers away from excessive heat.

SECTION VIII - CONTROL MEASURES

**Respiratory Protection (TYPE):** NIOSH approved respirator.  
**Ventilation:** Yes  
**Mechanical (General):** Yes  
**Local Exhaust:** Yes  
**Protective Gloves:** Recommended, NIOSH approved  
**Eye Protection:** Safety glasses  
**Other Protective Clothing or Equipment:** Rubber apron
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: 400°C/750°F
Solubility in Water: Moderate (hot water)
Reactivity in Water: None
Appearance and Odor: Red granular powder

SECTION X - STABILITY AND REACTIVITY

Stability: Product is stable
(Conditions to Avoid): Excessive heat
Incompatibility: None
Hazardous Decomposition Products: Boric oxide fumes.
Hazardous Polymerization: Will not occur
(Conditions to Avoid): Excessive heat

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

SECTION XII - ECOLOGICAL INFORMATION

This material has not been tested for environmental effects.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with EPA regulations

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.
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.

SECTION XVI - OTHER INFORMATION

The labeling of this product is indicated in Section II. The full text of all abbreviations indicated by codes in the MSDS are as follows:

- R36: Irritating to eyes
- R37: Irritating to respiratory system
- R38: Irritating to skin
- R60/61: May cause infertility/May cause harm to unborn child
- S-26: In case of eye contact, rinse thoroughly and get medical attention
- S-27: Take off immediately contaminated clothing
- S-36/37/39: Wear suitable protective clothing, gloves, and eye/face protection
- S-45: In case of accident or if feel unwell call medical advice immediately

Further information:
Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this material, but there are NO WARRANTIES, NO REPRESENTATIONS AND NO RESPONSIBILITY AS TO THE ACCURACY OR THE SUITABILITY OF THIS INFORMATION FOR ANY PURCHASER'S USE OR FOR ANY CONSEQUENCE TO USE.