SAFETY DATA SHEET ANTI-BORAX CRESCENT FORGE

DATE REVISED: April 22, 2020

SECTION 1 -- IDENTIFICATION

Product Name/Part number: Anti- Borax Crescent Forge

Recommended use: Forge welding flux

Manufacturer: Superior Flux & Mfg. Co. **Emergency Contact:** CHEMTREC

6615 Parkland Blvd Emergency Phone: 1-800-424-9300

Cleveland OH, 44139 **For other info:** (440) 349-3000

SECTION 2 – HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with OSHA HCS (29 CFR 1910)

Carcinogenicity (Category 1A) H350 Reproductive toxicity (Category 2) H361

Specific target organ toxicity – Repeated exposure, lungs (Category 1) H372

See below for full text of H-Statement(s)

GHS Label Elements, including precautionary statements Pictogram(s):



Signal Word: Danger

Hazard Statement(s)

H350 May cause cancer

H361 Suspected of damaging fertility or the unborn child

H372 Causes damage to lungs through prolonged or repeated exposure if inhaled

Precautionary statement(s)

P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dust, fumes, or gas.
P264	Wash skin thoroughly after handling
P270	Do not eat, drink, or smoke when using this product
P280	Wear protective gloves or protective clothing and eye protection
P308+P313	If exposed or concerned: Get medical advice or attention
P405	Store locked up
P501	Dispose of contents or container to an approved waste disposal plant

Hazards not otherwise classified or not covered by GHS:

Boric acid Included in the Candidate List of Substances of Very High Concern (SVHC)

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 3 – COMPOSITION INFORMATION

Components	CAS Number	%
Slag	FEO-FE203-FE304	50 - 80
Silicon dioxide	14808-60-7	15 - 40
Boric acid	10043-35-3	5 - 25
Unlisted percentages are non-haza	ardous stabilizers, and water.	

SECTION 4 – FIRST AID MEASURES

Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in

attendance. Move out of dangerous area.

Inhalation: If breathed in, move to fresh air. If not breathing, give artificial respiration.

Consult a physician.

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

Skin: Wash off with soap and plenty of water. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.

Most Important Symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2 (labeling)

Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5 – FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special Hazards: Will release small amounts of borane/boron oxides

Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary **Further information** No data available

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment and emergency procedures: Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas *See section 8 for personal protection.*

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal.

For disposal, see section 13.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling: Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

For precautions, see section 2.

Conditions for safe storage, including any incompatibilities Keep in plastic containers tightly closed in a dry and well-ventilated place away from excessive heat. Moisture sensitive.

For full precaution statements see Section 2

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA Permissible Exposure Limit (PEL): 10 mg/m³ ACGIH Threshold Limit Value (TLV): 10 mg/m³

General Precautions: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Engineering Controls: Use local exhaust ventilation to maintain air concentrations of dust, vapors and fumes below occupational exposure standards.

- **Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested an approved under appropriate government standards such as NIOSH (USA) or CEN (EU).
- **Protective Gloves:** Handle with gloves. (Nitrile Rubber recommended) Gloves must be inspected prior to use. Use proper glove removal techniques (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good lab practices. Wash and dry hands after handling.
- **Eye Protection:** Use appropriately fitting safety goggles with side-shields conforming to EN166.. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (USA) or EN 166 (EU)
- **Body Protection:** Impervious clothing The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Control of environmental exposure: Prevent further leakage or spillage if safe to do so.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

SECTION 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS

Appearance Tan with grey chips

Odor None

Odor threshold Not applicable pH Not applicable

Melting point/Freezing point 982-1400°C / 1800-2552°F

Initial boiling point and boiling rangeNo data availableFlash pointNot applicableEvaporation rateNot applicableFlammability (Solid, gas)No data available

Upper flammability or explosive limits Lower flammability or explosive limitsUpper explosion limit: Not applicable
Lower explosion limit: Not applicable

Vapor pressureNot applicableVapor densityNot applicableRelative density (Water = 1)No data available

Solubility(ies) Mostly insoluble in water

Partition coefficient: n-octanol/waterNo data availableAuto-ignition temperatureNot applicableDecomposition temperatureNo data availableViscosityNot applicable

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: No data available

Stability: Product is stable under recommended storage conditions

Possibility of hazardous reactions: No data available

Conditions to Avoid: Excessive heat **Incompatible Material:** No data available

Hazardous Decomposition Products Boric oxide fumes

In the event of fire: See Section 5

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Route(s) of Exposure: Inhalation, ingestion, skin and eye contact

Symptoms (Immediate and Chronic) from

Acute Exposure No data available Prolonged or Repeated Exposure No data available

Measure(s) of toxicity

No data available

IARC: No component of this product is present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product is present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product is present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by OSHA

Additional Information

Boric acid Toxicity reported for borates in humans: ingestion or absorption may cause

nausea, vomiting, diarrhea, abdominal cramps, anderythematous lesions on the skin and mucous membranes. Other symptoms include: circulatory collapse, tachycardia, cyanosis, delirium, convulsions, and coma. Death has been reported to occur in infants from less than 5 grams and in adults from 5 to 20 grams.

Liver - Irregularities - Based on Human Evidence

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SECTION 12 - ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential No data available **Mobility in soil** No data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical

safety assessment not required/not conducted

Other adverse effects No data available

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods

Product Offer surplus and non-recyclable solutions to a licensed disposal company.

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical

incinerator equipped with an afterburner and scrubber.

Contaminated packaging Dispose of as unused product.

SECTION 14- TRANSPORTATION

D.O.T. (USA)IMDGIATANot dangerous goodsNot dangerous goods

SECTION 15 - REGULATORY INFORMATION

SARA 302 Components No Chemicals in this material are subject to the reporting

requirement of SARA Title III, Section 302.

SARA 313 Components This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

SARA 311/312 Hazards Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS No.	Revision Date
Boric acid	10043-35-3	07/17/09
Silicon dioxide	14808-60-7	07/17/09

New Jersey Right To Know Components

CAS No. Revision Date
Boric acid 10043-35-3 07/17/09
Silicon dioxide 14808-60-7 07/17/09

California Prop. 65 Components

Silicon dioxide 14808-60-7

THIS PRODUCT IS ROHS 3 COMPLIANT

SECTION 16 - OTHER INFORMATION

Further information:

Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. The above information does not represent any guarantee of the properties of the product. It is believed to be correct, but does not purport to be all inclusive and should be used only as a guide. Reasonable care has been taken in the preparation of this material, and is based on the present state of our knowledge.

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Preparation information

Superior Flux & Mfg. Co.

440-349-3000