SAFETY DATA SHEET
SUPERIOR NO. 615
DATE REVISED: January 2, 2019

SECTION 1 – IDENTIFICATION

Product Name/Part number: Superior No. 615
Recommended use: High Temperature Brazing Paste Flux
Manufacturer: Superior Flux & Mfg. Co.

Emergency Contact: CHEMTREC
6615 Parkland Blvd
Cleveland OH, 44139
Emergency Phone: 1-800-424-9300
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)

- Eye irritant (Category 2) H319
- Acute oral toxicity (Category 3) H335
- Reproductive toxicity (Category 2) H361

See below for full text of H-Statement

GHS Label Elements, including precautionary statements

Pictogram(s):

![Warning Pictogram]

Signal Word: Warning

Hazard Statement(s)

- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H361 Suspected of damaging fertility or the unborn child

Precautionary statement(s)

- P202 Do not handle until all safety precautions have been read and understood
- P264 Wash skin thoroughly after handling
- P280 Wear protective gloves or protective clothing and eye protection
- P281 Use personal protective equipment as required
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- 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 | %
---|---|---
Boric Acid | 10043-35-3 | 30-60
Borax | 1303-96-4 | 10-30
Borates | Trade Secret | < 5

Unlisted percentages are non-hazardous 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 borates/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. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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 Pick up and arrange disposal without creating dust. 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. Provide appropriate exhaust ventilation at places where dust is formed.
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): 2 mg/m³
ACGIH Threshold Limit Value (TLV): 2 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. Do not let product enter drains.

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                        White paste
Odor                              No data available
Odor threshold                    No data available
pH                                No data available
Melting point/Freezing point      No data available
Initial boiling point and boiling range No data available
Flash point                       Not applicable
Evaporation rate                  No data available
Flammability (Solid, gas)         No data available
Upper flammability or explosive limits Upper explosion limit: Not applicable
Lower flammability or explosive limits Lower explosion limit: Not applicable
Vapor pressure                    No data available
Vapor density                     No data available
Relative density (Water = 1)      1.5
Solubility(ies)                   Soluble in water
Partition coefficient: n-octanol/water No data available
Auto-ignition temperature         No data available
Decomposition temperature         No data available
Viscosity                         Not 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, exposure to moisture
Incompatible Material: Potassium, acid anhydrides, strong oxidizers
Hazardous Decomposition Products No data available

In the event of fire: See Section 5

SDS. Superior No. 615. Page 4 of 6
SECTION 11 - TOXICOLOGICAL INFORMATION

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

Symptoms (Immediate and Chronic) from

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<tr>
<th>Exposure Type</th>
<th>Condition</th>
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<tbody>
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<td>Acute Exposure</td>
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<td>Prolonged or Repeated Exposure</td>
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Measure(s) of toxicity

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<th>Condition</th>
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<tr>
<td>IARC:</td>
<td>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.</td>
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<tr>
<td>NTP:</td>
<td>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.</td>
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<tr>
<td>OSHA:</td>
<td>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</td>
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Additional Information

Boric acid: Toxicity reported for borates in humans: ingestion or absorption may cause nausea, vomiting, diarrhea, abdominal cramps, and erythematosus 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

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity

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Persistence and degradability

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Bioaccumulative potential

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<th>Condition</th>
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Mobility in soil

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Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

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<td>No data available</td>
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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)  Not dangerous goods
IMDG  Not dangerous goods
IATA  Not 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

New Jersey Right To Know Components
  CAS No.  Revision Date
  Boric acid  10043-35-3  07/17/09

California Prop. 65 Components
  This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

  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.

Superior Flux & Mfg. Co. shall not be held liable for any damage resulting from handling or from contact with the above product. 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.

Preparation information
Superior Flux & Mfg. Co.
440-349-3000