

SAFETY DATA SHEET

SUPERIOR NO. 9H

DATE REVISED: April 5, 2018

SECTION 1 -- IDENTIFICATION

Product Name/Part number: Superior No. 9H

Recommended use: Back-up Welding Powder Flux

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

Emergency Contact: CHEMTREC
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)

| | |
|--|------|
| Acute toxicity, Oral (Category 3) | H301 |
| Skin irritation (Category 2) | H315 |
| Eye irritation (Category 2A) | H319 |
| Acute toxicity, Inhalation (Category 4) | H332 |
| Specific target organ toxicity – Single exposure, respiratory system (Category 3) | H335 |
| Carcinogenicity (Category 1A) | H350 |
| Reproductive toxicity (Category 2) | H361 |
| Specific target organ toxicity (Category 1) | H372 |

See below for full text of H-Statement

GHS Label Elements, including precautionary statements

Pictogram(s):



Signal Word: Danger

Hazard Statement(s)

| | |
|--------|--|
| H301 | Toxic if swallowed |
| **H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| **H335 | May cause respiratory irritation |
| 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 |

**May be omitted from label due to presence of more severe hazard statement(s)

Precautionary statement(s)

| | |
|------|--|
| P260 | Do not breathe dust or fumes |
| P264 | Wash skin and hands thoroughly after handling |
| P270 | Do not eat, drink, or smoke when using this product |
| P271 | Use only outdoors or in a well ventilated area |
| P280 | Wear protective clothing, protective gloves, eye protection, and face protection |

P301+P310+P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

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

P332+P313 If skin irritation occurs: Get medical advice or attention

P362 Take off contaminated clothing and wash before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed

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: None

SECTION 3 – COMPOSITION INFORMATION

| Components | CAS Number | % |
|-------------------|------------|-------|
| Lithium fluoride | 7789-24-4 | 2-5 |
| Boric acid | 10043-35-3 | 4-10 |
| Silica | 7631-86-9 | 10-30 |
| Titanium dioxide | 1317-80-2 | 5-20 |
| Manganese dioxide | 1313-13-9 | 5-10 |

Unlisted percentages are non-hazardous stabilizers, and/or 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)

SECTION 5 – FIREFIGHTING MEASURES

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

Special Hazards: May release small amount of fluorides

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 vapors, 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. Mop or 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 contact with skin, eyes, and clothing. Wash thoroughly after use. Provide appropriate exhaust ventilation.

For precautions, see section 2.

Conditions for safe storage, including any incompatibilities Keep in plastic containers away from excessive heat.

For full precaution statements see Section 2

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA Permissible Exposure Limit (PEL): 2.5 mg/m³

ACGIH Threshold Limit Value (TLV): 2.5 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 respirator 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 and 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.

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 | Dark grey powder |
| Odor | None |
| Odor threshold | Not applicable |
| pH | Not applicable |
| Melting point/Freezing point | 1250°C / 2282°F (approx.) |
| Initial boiling point and boiling range | No data available |
| Flash point | Not applicable |
| Evaporation rate | Not applicable |
| Flammability (Solid, gas) | Not applicable |
| Upper flammability or explosive limits | Upper explosion limit: Not applicable |
| Lower flammability or explosive limits | Lower explosion limit: Not applicable |
| Vapor pressure | Not applicable |
| Vapor density | Not applicable |
| Relative density (Water = 1) | No data available |
| Solubility(ies) | Partially soluble in water |
| Partition coefficient: n-octanol/water | No data available |
| Auto-ignition temperature | Not applicable |
| 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

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

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

Other adverse effects

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.

Contaminated packaging Dispose of as unused product.

SECTION 14- TRANSPORTATION

D.O.T. (USA)

Non-hazardous

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 No chemicals in this material are subject to the reporting requirement of SARA Title III, Section 313.

SARA 311/312 Hazards Acute Health Hazard

California Prop. 65 Components

| <u>COMPONENT</u> | <u>CAS No.</u> | <u>DATE OF LIST</u> |
|------------------|----------------|---------------------|
| Silica | 7631-86-9 | Dec 29, 2017 |
| Titanium dioxide | 1317-80-2 | Dec 29, 2017 |

THIS PRODUCT IS ROHS 2 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
