

# SAFETY DATA SHEET

## SUPERIOR NO. 9H

DATE REVISED: April 5, 2018

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### 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

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### 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

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### 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.

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### 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)

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### 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

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## 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.*

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## 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*

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## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**OSHA Permissible Exposure Limit (PEL):** 2.5 mg/m<sup>3</sup>

**ACGIH Threshold Limit Value (TLV):** 2.5 mg/m<sup>3</sup>

**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.

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## SECTION 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS

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

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## 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*

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## 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

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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

**Other adverse effects**

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

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## 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.

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## SECTION 14- TRANSPORTATION

**D.O.T. (USA)**

Non-hazardous

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## 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**

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## 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

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