

SAFETY DATA SHEET

SUPERIOR No. 20

DATE REVISED: January 1, 2018

Product Name/Part Number: Superior No. 20

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

SECTION 1 -- IDENTIFICATION

Common Name: Superior No. 20

Chemical Family: Aluminum brazing flux

CAS Number: N/A

Chemical Name: N/A

Formula: See Section 3

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification:

Skin corrosion (Category 1B) H314
Serious eye damage (Category 1) H318
Acute toxicity, Oral (Category 3) H301
Acute aquatic toxicity (Category 1) H400
Chronic aquatic toxicity (Category 1) H410

Label Elements

Pictogram(s):



Signal Word: Danger

Hazard Statement(s)

H301 Toxic if swallowed
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P260 Do not breathe dust or fumes
P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P273 Avoid release to the environment
P280 Wear eye protection, protective gloves and protective clothing
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call doctor
P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER if you feel unwell. Rinse mouth. Do NOT induce vomiting
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER
P332+P313 If skin irritation occurs: get medical advice
P337+P313 If eye irritation persists, get medical advice
P362 Take off contaminated clothing and wash before reuse
P391 Collect spillage
P405 Store locked up
P501 Dispose of contents to an approved waste disposal plant

Hazards not otherwise classified or not covered by GHS: None

SECTION 3 – COMPOSITION INFORMATION

Components	CAS Number	%
Lithium Chloride	7447-41-8	30-45
Zinc Chloride	7646-85-7	6-10
Sodium Fluoride	7681-49-4	10-25

None of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens.

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: Remove to fresh air.

Eyes: Flush with water for fifteen (15) Minutes. Remove contacts if present and easy to do so. Call physician.

Skin: Wash thoroughly with soap and water.

Ingestion: Rinse mouth with water. Never give anything by mouth to an unconscious person. Obtain medical attention immediately

Most Important Symptoms and effects, both acute and delayed

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

Medical Conditions Generally Aggravated by Exposure: Any weakness of the lungs, kidneys or liver may be aggravated.

OSHA Permissible Exposure Limit (PEL): 1 mg/m³

ACGIH Threshold Limit Value (TLV): 1 mg/m³

SECTION 5 – FIREFIGHTING MEASURES

Extinguishing Media: Dry chemical, carbon dioxide foam

Special Hazards: Chloride and fluoride fumes may occur with high heat.

Flash Point: Not applicable

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Use personal protective equipment.

See section 8 for personal protection.

Environmental Precautions: Prevent further leakage or spillage if safe to do so.

In Case Material is spilled: Neutralize with soda ash or sodium bicarbonate and dilute with water.

Arrange for disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7 - HANDLING AND STORAGE

Storage Requirements: Store in plastic containers in cool area, away from heat

Handling Precautions: Avoid contact with skin and eyes. Provide appropriate and adequate ventilation for or fumes when using this product.

For precautions see Section 2

SECTION 8 - CONTROL MEASURES

Respiratory Protection: For nuisance exposures use type P95 (US) respirator. For higher level protection use type OV/AG/P99 respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Ventilation: Yes **Mechanical (General):** Yes **Local Exhaust:** Yes

Protective Gloves: Yes – Nitrile rubber. Use equipment tested and approved under NIOSH standards.

Eye Protection: Safety glasses conforming to EN166. Use equipment tested and approved under NIOSH standards.

Other Protective Clothing or Equipment: Rubber apron recommended.

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of the anticipated use. It should not be construed as offering an approval for any specific use scenario.

SECTION 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS

Appearance:	Powder, white
Odor	None
pH	No data available
Melting/Freezing Point:	No data available
Boiling Point/Range:	No data available
Flash Point:	No data available
Evaporation Rate:	Not applicable
Flammability (solid/gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	No data available
Bulk Density	No data available
Water Solubility	Unlimited
Partition coefficient: n-octanol/water	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: Exothermic in water

Stability: Product is stable under recommended storage conditions

Possibility of hazardous reactions: No data available

Conditions to Avoid: Excessive heat, excessive cold, metals

Incompatibility: Alkalines, strong oxidizing or reducing materials, cyanides or combustible materials.

Hazardous Decomposition Products Hydrochloric acid, zinc chloride, zinc oxide

In the event of fire: See Section 5

SECTION 11 - 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 12 - ECOLOGICAL INFORMATION

This material has not been tested for environmental effects.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material

SECTION 14- TRANSPORTATION

D.O.T. Proper Shipping Name: Corrosive solids, N.O.S. (contains zinc chloride, anhydrous)

Identification Number: UN1759

Hazard Class: 8

Type D.O.T Label Required Information: Corrosive

Packing Group: III

SECTION 15 - REGULATORY INFORMATION

OSHA Hazardous Chemical According to 29 CFR 1910.1200: None

Carcinogenicity Classification (Components Present at 0.1% or More): Non-carcinogenic

International Agency for Research on Cancer (IARC): Not listed

American Conference of Governmental Industrial Hygienists (ACGIH): Not listed

National Toxicology Program (NTP): Not listed

Occupational Safety and Health Administration (OSHA): Not listed

None of the 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 16 - OTHER INFORMATION

Full text of H-Statements and P-Statements referred to in Section II and/or III.

H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

HMIS Rating

Health 3
Flammability 0

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.

Preparation information

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

Version 2.1

Revision Date: 06/23/2017
