

SUPERIOR FLUX AND MFG CO -- SUPERIOR NO.19;POWDER BRAZING FLUX -- 3439-00-255-4572  
===== Product Identification =====

Product ID: SUPERIOR NO.19;POWDER BRAZING FLUX

MSDS Date: 02/21/1990

FSC: 3439

NIIN: 00-255-4572

MSDS Number: BDPDM

=== Responsible Party ===

Company Name: SUPERIOR FLUX AND MFG CO

Address: 95 ALPHA PARK

City: CLEVELAND

State: OH

ZIP: 44143-2201

Country: US

Info Phone Num: 216-461-3315

Emerg

ency Phone Num: 216-461-3315

Preparer's Name: BRUCE B. HORVATH

CAGE: 87618

=== Contractor Identification ===

Company Name: SUPERIOR FLUX AND MFG CO

Address: 6615 PARKLAND BLVD

City: SOLON (FORMALLY CLEVELAND)

State: OH

ZIP: 44139

Country: US

Phone: 440-349-3000

CAGE: 87618

===== Composition/Information on Ingredients =====

Ingred Name: LITHIUM CHLORIDE

CAS: 7447-41-8

RTECS #: OJ5950000

Fraction by Wt: 10-15%

Ingred Name: ZINC CHLORIDE (SARA III)

CAS: 7646-85-7

RTECS #: ZH1400000

Fraction by W

t: 3-8%  
OSHA PEL:1 MG/M3/2 STEL  
ACGIH TLV:1 MG/M3/2STEL FUME93  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:POTASSIUM CHLORIDE  
CAS:7447-40-7  
RTECS #:TS8050000  
Fraction by Wt: 30-70%

Ingred Name:SODIUM FLUORIDE (SARA III)  
CAS:7681-49-4  
RTECS #:WB0350000  
Fraction by Wt: 10-25%  
OSHA PEL:2.5 PPM F  
ACGIH TLV:2.5 MG F/M3; 9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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===== Hazards Identification =====

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE:IRRITATION OF EYES,SKIN,RESPIRATORY OR G,I.TRACT OR NAUSEA,VOMITING AND LACK OF CO-ORDINATION.CHRONIC:INCREASED BONE DENSITY,HARDENING OF LIGAMENTS.

Explanation of Carcinogenicity:DATA PER MGF MSDS.

Effects of Overexposure:SEE HEALTH HAZARDS DATA.

Medical Cond Aggravated by Exposure:PRE-EXISTING CONDITIONS MAY BE WORSEN.

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===== First Aid Measures =====

First Aid:EYES AND SKIN:FLUSH WITH LARGE AMOUNT OF WATER FOR ABOUT 15-20 MINUTES;SEEK MEDICAL ATTENTION IMMEDIATELY.INHALATION:REMOVE TO FRESH AIR;CALL A PHYSICIAN.INGESTION:SEEK MEDICAL ATTENTION IMMEDIATELY.

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===== Fire Fighting Measures =====

Flash Point:NONE

Autoignition Temp:Autoignition Temp Text:NONE

Extinguishing Media:NOT FLAMMMABLE ;USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG FOR SURROUNDING FIRE.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FUL

L PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER  
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:NONE EXPECTED

===== Accidental Release Measures =====

Spill Release Procedures:USE PROPER PERSONAL PROTECTION;SWEEP UP OR  
VACUUM AND COLLECT FOR PROPER DISPOSAL IN AN APPROVED CONTAINER.

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN COOL,DRY AND WELL VENT  
ILATED

AREA.KEEP CONTAINER CLOSED WHEN NOT IN USE.

Other Precautions:WASH THOROUGHLY AFTER EACH USE.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR FOR DUST/MIST  
IF ABOVE PEL/TLV OR SCBA IN AN ENCLOSED AREA.

Ventilation:LOCAL/GENERAL TO MAINTAIN PEL/TLV.

Protective Gloves:IMPERVIOUS

Eye Protection:SAFETY GLASSES/GOGGLES

Other Protective Equipment:PROTECTIVE CLOTHINGS.EYE-WASH  
FACILITIES,SAFETY SHOWER.

Wo

rk Hygienic Practices:AVOID CONTACT WITH EYES AND SKIN;DO NOT BREATHE  
VAPORS/MIST/DUST.WASH THOROUGHLY AFTER EACH USE.

Supplemental Safety and Health

MSDS UNDATED

===== Physical/Chemical Properties =====

HCC:N1

Spec Gravity:2.34

Solubility in Water:COMPLETE

Appearance and Odor:WHITE POWDER, MODERATELY HYDROSCOPIC

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ALKALINE MATERIALS, AMMONIA

Stability

Condition to Avoid:HIGH TEMPERATURES

Hazardous Decomposition Products:CHLORIDE, FLUORIDE, ZINC

===== Disposal Considerations =====

Waste Disposal Methods:CONSULT LOCAL AUTHORITIES;DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL,STATE AND FEDERAL REGULATIONS

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