

SUPERIOR FLUX & MANUFACTURING COMPANY -- SUPERIOR NO. 23 -- 3439-01-142-2423  
===== Product Identification =====

Product ID: SUPERIOR NO. 23  
MSDS Date: 01/01/1985  
FSC: 3439  
NIIN: 01-142-2423  
MSDS Number: BGNRS  
=== Responsible Party ===  
Company Name: SUPERIOR FLUX & MANUFACTURING COMPANY  
Address: 95 ALPHA PARK  
City: CLEVELAND  
State: OH  
ZIP: 44143-2201  
Country: US  
CAGE: HO114  
=== Contractor Identification ===  
Company Name: SUPERIOR FLUX & MFG. CO.  
CAGE: HO114  
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: ZINC CHLORIDE (SARA III)  
CAS: 7646-85-7  
RTECS #: ZH1400000  
Fraction by Wt: 30%  
OSHA PEL: 1 MG/M3/2 STEL  
ACGIH TLV: 1 MG/M3/2 STEL FUME93  
EPA Rpt Qty: 1000 LBS  
DOT Rpt Qty: 1000 LBS

Ingred Name: HYDROGEN CHLORIDE (HYD

ROCHLORIC ACID) (SARA III)

CAS:7647-01-0

RTECS #:MW4025000

Fraction by Wt: 12.5%

OSHA PEL:C 5 PPM

ACGIH TLV:C 5 PPM; 9192

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:ACETIC ACID (SARA III)

CAS:64-19-7

RTECS #:AF1225000

Fraction by Wt: 3%

OSHA PEL:10 PPM

ACGIH TLV:10 PPM/15 STEL; 9192

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:AQUEOUS SOLUTION,HAZARD UNKNOWN,UNIDENTIFIED COMPONENTS;  
WT% RANGE BY DIFFERENCE

Fraction by Wt: 54.5%

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Hazards Identification

Effects of Overexposure:INHALE:FAINTNESS,NAUSEA;INGEST:HARMFUL OR  
FATAL;INHALE:HARMFUL;SKIN:BURNS.

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First Aid Measures

First Aid:INHALE:REMOVE TO FRSH AIR, GIVE CPR/O\*2 IF  
NEED;EYES/SKIN:FLUSH W/LG AMTS H\*20 FOR 15 MIN;INGEST:RINSE  
MOUTH,DRINK PLENTY OF MILD OR WATER,DO NOT INDUCE VOMIT, CONTACT  
PHYSICIAN IMMEDIATELY;GET MEDICAL ATTENTION FOR SYMPTOMS OF  
OVEREXPOSURE.

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Fire Fighting Measures

Extinguishing Media:NON FLAMMABLE:USE MEDIA SUITABLE FOR SURROUNDING  
FIRE

Fire Fighting Procedures:SELF-CNTND BRTHG APP;H\*20 SPRAY COOL CONT.

Unusual Fire/Explosion Hazard:CONTAINERS MAY RUPTURE IN HEAT OF FIRE.

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Accidental Release Measures

Spill Release Procedures:EVACUATE UNPROTECTED PERSONS. DO NOT TOUCH  
SPILLED MATERIAL.WEAR PROTECTIVE EQUIPMENT.STOP LEAK IF POSSIBLE  
WITHOUT RISK. ABSORBWITH COM

MERCIAL ABSORBENT, PUT IN APPR  
CONTAINERS; LG SPILL:CONTAIN W DI KE, TRANSFER TO APPR CONT.

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

Handling and Storage Precautions:STORE IN COOL,DRY,WELL VENTILATED  
AREA. KEEP CONTAINERS TIGHTLY CLOSED.PROTECT FORM PHYSICAL DAMAGE.  
STORE AS AN ACID.

Other Precautions:MAINTAIN STRICT HYGIENE,AVOID PHYSICAL CONTACT,  
REMOVE & WASH CONTAMINATED CLOTHING. WHEN WELDING,USE WELDERS  
GLOVES,FACE SHIELD,LEATHER APRON,WELDE  
RS COATS, & COLORED  
ABSORPTIVE LENS.

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

Respiratory Protection:FOR EXPOSURE:SELF-CNTND BRTH APP/APPR  
RESPIRATOR

Ventilation:MECHANICAL(GENERAL/LOCAL EXHAUST)

Protective Gloves:IMPERVIOUS

Eye Protection:SAFETY/CHEM GOGGLES

Other Protective Equipment:FULL WORK CLOTHING.

Supplemental Safety and Health  
2 TYPE AND B FORM

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

HCC:C1

Boiling Pt:B.P. Text:214F,10  
1C

Spec Gravity:1.29

Evaporation Rate & Reference:0.5

Solubility in Water:COMPLETE

Appearance and Odor:SLIGHTLY COLORED SOLUTION;ACID ODOR

Percent Volatiles by Volume:69.8

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

Stability Indicator/Materials to Avoid:YES  
ALKALIES

Stability Condition to Avoid:NONE NOTED

Hazardous Decomposition Products:CL,HCL,CO\*2,ZN

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

Waste Disposal Methods:KEEP IN COVERED CONTA

INERS PENDING DISPOSAL.

HANDLE AND DISPOSE IN FULL COMPLIANCE WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS. WASH RESIDUE WITH WATER(PER MFG)

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