

ENGELHARD CORPORATION -- ULTRA FLUX-SILVER BRAZING FLUX -- 3439-00B050025

===== Product Identification =====

Product ID:ULTRA FLUX-SILVER BRAZING FLUX

MSDS Date:08/01/1988

FSC:3439

NIIN:00B050025

MSDS Number: BGSWT

=== Responsible Party ===

Company Name:ENGELHARD CORPORATION

Address:ROUTE 152

City:PLAINVILLE

State:MA

ZIP:02762

Country:US

Info Phone Num:508-695-7811

Emergency Phone Num:508-695-7811

CAGE:23036

=== Contractor Identification ===

Company Name:ENGELHARD CORP

Address:235 KILVERT ST

Box:City:WARWICK

State:RI

ZIP:02886

Country:US

Phone:401-739-9550

CAGE:86337

Company Name:ENGELHARD CORPORATION

Address:29001 SOLON ROAD

City:SOLON

State:OH

ZIP:44139

Country:US

Phone:216-292-9200

CAGE:23036

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

Ingred Name:POTASSIUM PENTABORATE

CAS:1229-13-9

Ingred Name:POTASSIUM BIFLUORIDE (POTASSIUM HYDROGEN FLUORIDE)

CAS:7789-29-9

RTECS #:TS6650000

OSHA PEL:2.5 MG/M3 (F)

ACGIH TLV:2.5 MG/M3 (F); 8990

Ingred Name:SDS (SODIUM DODECYL SULFATE)

CAS:151-21-3

RTECS #:WT1050000

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Ingred Name:BORIC ACID

CAS:10043-35-3

RTECS #:ED4550000

Ingred Name:POTASSIUM TETRABORATE
CAS:1332-77-0

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:AGGRAVATING TO ANY RESPIRATORY
ILLNESS.
Effects of Overexposure:FUMES CAN CAUSE IRRITATION TO EYES,NOSE AND
THROAT.
Medical Cond Aggravated by Exposure:SEVERE IRRITANT TO OPEN SORES AND
WOUNDS.

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

First Aid:IF INHALED REMOVE TO FRESH AIR. IF NOT BREATHING,GIVE
ARTIFICIAL RESPIRATION,PREFERABLE MOUTH TO MOUTH,IF BREATHING IS
DIFFICULT.

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

Extinguishing Media:THIS IS A NON-FLAMMABLE MATERIAL.
Fire Fighting Procedures:NONE-USE FIRE EXTINGUISHERS APPRECIATE FOR
SURROUNDING FIRE.
Unusual Fire/Explosion Hazard:TOXIC FUMES CAN BE EMITTED IF HEATED TO
MOLTEN CONDITIONS.

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

Spill Release Procedures:FLUSH WITH PLENTY OF WATER TO DILUTE THE FLUX.
THE PRODUCT IS NONFLAMMABLE.

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

Other Precautions:MAINTAIN ADEQUATE AIRFLOW IF FUMES ARE PRESENT.

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

Respiratory Protection:IN CONFINED SPACE USE OSHA APPROVED RESPIRATOR
OR WHEN FLUORIDE FUMES EXCEED 2.5 MG PER CUBIC METER OF AIR WHILE
BRAZING.
Ventilation:LOCAL EXHAUST, MECHANICAL (GENERAL).
Protective Gloves:NOT RECOMMENEDED-MAY ENTRAP FLUX.
Eye Protection:RECOMMENDED.
Other Protective Equipment:WEAR NON-FLAMMABLE PROTECTIVE CLOTHING.
PROVIDE GOOD VENTILATION.
Supplemental Safety and Health
ON HEATING FLUORIDE FUMES ARE EVOLVED. INORGANIC FLUORIDE INHALATION
LEADS TO IRRITATION OF THE EYES & NOSE,"CHRONIC FLUORINE POISONING"
NAMELY,"FLUOROSIS" RESULTING IN SCLEROSIS OF BONES"-LOSS OF WEI
GHT. DIRECT CONTACT OF FINGERS WITH FLUX CAN LEAD TO REACTION WITH
SKIN (ITCHING).

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

Melt/Freeze Pt:M.P/F.P Text:800F
Spec Gravity:1.12
Solubility in Water:APPRECIABLE
Appearance and Odor:WHITE,ODORLESS PASTE.

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

Stability Indicator/Materials to Avoid: YES
Stability Condition to Avoid: NONE ACCORDING TO MFR.
Hazardous Decomposition Products: DECOMPOSES TO FLUORIDE WHEN HEATED TO
BRAZING TEMPERATURE.

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

Waste Disposal Methods: DILUTE WITH WATER.

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