

UNIVERSAL FLUX AND MANUFACTURE INC -- UNIVERSAL #45 FLUX -- 3439-00-250-2629

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

Product ID:UNIVERSAL #45 FLUX

MSDS Date:03/26/1997

FSC:3439

NIIN:00-250-2629

MSDS Number: CDJPM

=== Responsible Party ===

Company Name:UNIVERSAL FLUX AND MANUFACTURE INC

Address:5309 BOUGHNER ROAD

City:ROCK CREEK

State:OH

ZIP:44084-9768

Country:US

Info Phone Num:216-731-1507 NOT LISTED

E

mergency Phone Num:800-2424-9300

Preparer's Name:DSCR-VBA

CAGE:59819

=== Contractor Identification ===

Company Name:UNIVERSAL FLUX AND MANUFACTURE INC

Address:5309 BOUGHNER ROAD

Box:City:ROCK CREEK

State:OH

ZIP:44084-9768

Country:US

Phone:216-731-1507 WRONG NUMBER

CAGE:59819

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

Ingred Name:ZINC CHLORIDE (SARA III)

CAS:7646-85-7

RTECS #:ZH1400000

Other REC Limits:NONE SPECIFIED

OSHA PEL:1 MG/M3/2 STEL

ACGIH TLV:1 MG/M3/2STEL FUME

93
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA III)
CAS:7647-01-0
RTECS #:MW4025000
Other REC Limits:NONE SPECIFIED
OSHA PEL:C 5 PPM
ACGIH TLV:C 5 PPM; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:AMMONIUM CHLORIDE (SARA III)
CAS:12125-02-9
RTECS #:BP4550000
Other REC Limits:NONE SPECIFIED
OSHA PEL:10 MG/M3/20 STEL
ACGIH TLV:10 MG/M3 FUME; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:WATER
CAS:7732-18-5
RTECS #:
ZC0110000
Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE- MAY BE CORROSIVE TO ALL
TISSUES, MAY IRRITATES OR BURN EYES AND SKIN. INHALATION:IRRITATION
OF RESPIRATORY SYSTEM. INGESTION: BURNING SENSATION OF G.I. TRACT,
AND MAY CAUSE VOMITING. CHRONIC-NO NE KNOWN.
Effects of Overexposur
e:IRRITATION OF RESPIRATORY SYSTEM, BURNING,
ITCHTING AND IRRITATION OF EYES, INGEATION MAY CAUSE VOMITING AND
BURNING SENATION OF G.I. TRACT.
Medical Cond Aggravated by Exposure:PULMONARY AND SKIN DISEASES.

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

First Aid:GET MEDICAL ATTENTION. EYE/SKIN:IMMEDIATELY FLUSH WITH WATER
FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. INHALED:REMOVE TO FRESH
AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:DO NOT INDUCE VOMITING. I

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CON SCIOUS, DRINK PLENTY OF WATER/MILK. CALLA PHYSICIAN
IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point:>200F,>93C

Extinguishing Media:WATER SPRAY, CO2, FOAM/DRY CHEMICAL. WATER SPRAY
MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL & FLUSH SPILLS
AWAY.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-
APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL F
ACEPIECE

OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:MAY RELEASE TOXIC VAPORS OF HYDROCHLORIC
ACID AND ZINC CHLORIDE.

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

Spill Release Procedures:CONTAIN SPILL, ABSORB, SWEEP-UP AND TRANSFER
TO SUITABLE CONTAINER FOR LATER DISPOSAL. FLUSH AREA WITH WATER TO
CHEMICAL SEWER.

Neutralizing Agent:SODA BICARB OR LIME.

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

Handlin

g and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED
AREA AWAY FROM FLAMES AND INCOMPATIBLE MATERIALS. KEEP CONTAINERS
TIGHTLY CLOSED.

Other Precautions:AVOID BREATHING VAPORS. DO NOT GET IN EYES, ON SKIN
OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR
DRINKING. REMOVE CONTAMINATED CLOTHING PROMPTLY. KEEP OUT OF REACH
OF CHILDREN.

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

Respiratory Protection:RESPIRATOR WILL NOT NOR
MALLY BE NECESSARY. USE

NIOSH-APPROVED AIR SUPPLIED RESPIRATOR OR RESPIRATOR WITH FILTER
FOR ACID, OR USE SELF-CONTAINED BREATHING APPARATUS.

Ventilation:GENERAL ROOM VENTILATION IS NORMALLY ADEQUATE.

Protective Gloves:NEOPRENE, NITRILE, VPC OR NATURAL RUBBER

Eye Protection:SAFETY GLASSES OR GOGGLES/FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices:USE GOOD CHEMICAL HYGIENE PRACTICE.

AVOID
UNNECESSARY CONTACT.

Supplemental Safety and Health

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ACCURATE AND RELIABLE TO THE BEST OF OUR KNOWLEDGE AND BELIEF BUT
IS NOT GUARANTEED TO BE SO. IT IS THE USER'S RESPONSIBILITY TO
TAKE ALL SAFETY PRECAUTIONS AS MAY BE NECESSARY. WE HEREBY DISCLAIM
ALL LIABILITY WITH RESPECT TO IT'S USE.

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

HCC:C1
Boiling Pt:B.P. Text:NOT KNOWN
Va
por Pres:NOT KNOWN
Spec Gravity:NOT KNOWN
pH:ACID
Solubility in Water:COMPLETE
Appearance and Odor:CLEAR COLORLESS LIQUID WITH AN "ACIDIC" ODOR

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

Stability Indicator/Materials to Avoid:YES
CYANIDES, BASES. CAN BE CONSIDERED A WEAK ACID. CORROSIVE TO SOME
METALS ESPECIALLY IF HOT.
Stability Condition to Avoid:HEAT, FLAMES
Hazardous Decomposition Products:HYDROGEN CHLORIDE GAS, AND FUMES OF
ZINC CHLORIDE.

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==== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE
AND FEDERAL REGULATIONS.

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