

J.W.HARRIS CO.INC. -- STAY-CLEAN ALUMINUM FLUX -- 3439-00-255-4571

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

Product ID:STAY-CLEAN ALUMINUM FLUX

MSDS Date:04/01/1996

FSC:3439

NIIN:00-255-4571

Status Code:A

MSDS Number: CKPBY

=== Responsible Party ===

Company Name:J.W.HARRIS CO.INC.

Address:10930 DEERFIELD ROAD

City:CINCINNATI

State:OH

ZIP:45242

Country:US

Info Phone Num:513-891-2000

Emergency Phone Num:

(800)424-9300

Chemtrec Ind/Phone:(800)424-9300

CAGE:27911

=== Contractor Identification ===

Company Name:J. W. HARRIS CO., INC.

Address:10930 DEERFIELD ROAD

Box:City:CINCINNATI

State:OH

ZIP:45242-4110

Country:US

Phone:513-891-2000

CAGE:27911

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

Ingred Name:AMMONIUM FLUOBORATE

CAS:13826-83-0

RTECS #:BQ6100000

< Wt:20.

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:AMINOETHYLETHANOLAMINE

CAS:111-41-1

RTECS #:KJ6300000

&

It; Wt:35.

Ingred Name:TRIETHANOLAMINE  
CAS:102-71-6  
RTECS #:KL9275000  
ACGIH TLV:5 MG/M3

Ingred Name:ZINC  
CAS:7440-66-6  
RTECS #:ZG8600000  
&lt; Wt:5.  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
&lt; Wt:5.  
ACGIH TLV:2 MG/M3

Ingred Name:ZINC OXIDE  
CAS:1314-13-2  
RTECS #:ZH4810000  
&lt; Wt:10.  
OSHA PEL:15 MG/M3

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carci

nogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:AMONIUM FLUOBORATE: CHRONIC FLUORIDE  
ABSORPTION CAN RESULT IN OSSEOUS FLUOROSIS, INCREASED RADIOGRAPHIC  
DENSITY OF THE BONES & MOTTILING OF THE TEETH.

AMINOETHYLETHANOLAMINE & TRIETHANOLAMINE: IF INHA LED, CAN CAUSE  
IRRITATION TO THE RESPIRATORY SYSTEM. TIN: TIN FUME MAY CAUSE  
METAL FUME FEVER CHARACTERIZED BY FEVER, BODY ACHE, & CHILLS.

ZINC: ZINC FUME MAY CAUSE METAL FUME FEVER, CHARACTERIZED B Y

FEVER, BODY ACHE & CHILLS. ZINC FUME MAY ALSO BE AN IRRITANT TO THE  
SKIN & EYES. ZINC OXIDE: CAUSES SKIN AND EYE BURNS. HARMFUL IF  
INHALED OR ABSORBED THROUGH THE SKIN. CHRONIC EFFECTS ARE COUGHING  
, CNS EFFECTS, ERYTHMEA, & NAUSEA.

Effects of Overexposure:AMONIUM FLUOBORATE: CHRONIC FLUORIDE ABSORPTION  
CAN RESULT IN OSSEOUS FLUOROSIS, INCREASED RADIOGRAPHIC DENSITY OF  
THE BONES & MOTTILING OF THE TEETH. AMINOETHYLETHANOLAMINE &  
TRIETHANOLAMINE: IF INHA LED, CAN CAUSE I

IRRITATION TO THE

RESPIRATORY SYSTEM. TIN: TIN FUME MAY CAUSE METAL FUME FEVER CHARACTERIZED BY FEVER, BODY ACHE, & CHILLS. ZINC: ZINC FUME MAY CAUSE METAL FUME FEVER, CHARACTERIZED BY FEVER, BODY ACHE & CHILLS. ZINC FUME MAY ALSO BE AN IRRITANT TO THE SKIN & EYES. ZINC OXIDE: CAUSES SKIN AND EYE BURNS. HARMFUL IF INHALED OR ABSORBED THROUGH THE SKIN. CHRONIC EFFECTS ARE COUGHING , CNS EFFECTS, ERYTHMEA, & NAUSEA.

=====  
=====

First Aid:IF SWALLOWED, GIVE PLENTY OF WATER OR MILK. DO NOT INDUCE VOMITING. CALL PHYSICIAN IMMEDIATELY. SKIN-FLUSH WITH WATER. INHALATION-IRRITATES RESPIRATORY SYSTEM-MOVE TO FRESH AIR. EYES-EYE IRRITANT-FLUSH WITH WATER AT LEAST 15 MIN. PROMPTLY GET MEDICAL ATTENTION.

=====  
=====

Flash Point Method:TCC

Flash Point:=135.C, 275.F

Lower Limits:2.0

Upper Limits:12.0

Extinguishing Media:NON-FLAMMABLE MATERIAL.

Fire Fighting Procedures:IF LARGE QUANTITIES ARE INVOLVED IN A FIRE, FIREFIGHTERS SHOULD USE SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:WHEN HEATED THE MATERIAL MAY RELEASE ZINC OXIDE FUMES.

=====  
=====

Spill Release Procedures:CANTAIN SPILL, ABSORB, SWEEP-UP, DISPOSE, FLUSH AREA WITH WATER TO CHEMICAL SEWER. DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

=====  
=====

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN BRAZING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation:USE ENOUGH VENTILATION TO KEEP THE FUMES AND GASES BELOW TLV'S IN THE WORKER'S BREATHING ZONE AND THE GENERAL AREA.

Protective Gloves:YES

Eye Protection:WEAR SAFETY GLASSES, GOGGLES OR USE FACE SHIELD WITH

FILTER LENS OF APPROPRIATE

Other Protective Equipment:WEAR HEAD AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM SPLASHING, SPARKS AND FLAME.

Supplemental Safety and Health

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

HCC:V5

Boiling Pt.=133.9C, 273.F

Solubility in Water:100

Appearance and Odor:VISCOUS AMBER LIQUID WITH AMMONIA ODOR.

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

Stability Indicator/Materials to Avoid:YES

AVOID CONCENT

RATED ACIDS AND OXIDIZERS.

Stability Condition to Avoid:AVOID HEAT, SPARKS, OPEN FLAME.

Hazardous Decomposition Products:CARBON MONOXIDE AND/OR DIOXIDE.

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

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

===== MSDS Transport Information =====

Transport Information:PROPER SHIPPING NAME: CORROSIVE LIQUID, NOS (AMINOETHYLETHANOLAMINE) CLASS 8, UN 1760, PG III

===== Regulatory Information =====

SARA Title III Information:INDIVIDUAL FLUXES COVERED BY THIS MSDS MAY CONTAIN TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United Sta

tes of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.