

X-ERGON A PARTSMASTERS DIV NCH -- ALUMINUM BRAZING FLUX

=====
MSDS Safety Information
=====

MSDS Date: 02/05/1999
MSDS Num: CKRDS
Product ID: ALUMINUM BRAZING FLUX
MFN: 01
Responsible Party
Cage: 55649
Name: X-ERGON A PARTSMASTERS CO DIV NCH CORP
Box: 152170
City: IRVING TX 75051
Info Phone Number: 214-438-1381
Emergency Phone Number: 972-438-1381
Review Ind: Y
Published: Y

=====
Contractor Summary
=====

Cage: 55649
Name: X-ERGON A PARTSMASTERS CO DIV NCH CORP
Box: 152170
City: IRVING TX 75051
Phone: 214-438-1381

=====
Ingredients
=====

Cas: 7646-85-7
RTECS #: ZH1400000
Name: ZINC CHLORIDE (FUMES)
< Wt: 12.
OSHA PEL: 1 MG/M3
ACGIH TLV: 1 MG/M3
ACGIH STEL: 2 MG/M3
EPA Rpt Qty: 1000 LBS
DOT Rpt Qty: 1000 LBS

Cas: 7447-41-8
RTECS #: OJ5950000
Name: LITHIUM CHLORIDE

Cas: 7789-24-4
RTECS #: OJ6125000
Name: LITHIUM FLUORIDE
=====

Health Hazards Data
=====

LD50 LC50 Mixture: LITHIUM FLOURIDE:ORL-RAT LD50:143MG/KG
Route Of Entry Inds - Inhalation: YES
Skin: NO
Ingestion: NO
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: EYE: CORROSIVE, BURNING, CORNEAL DAMAGE AND POSSIBLE
BLINDNESS. SKIN: CORROSIVE, BURNS AND POSSIBLE DEEP ULCERATIONS OR

SCARRING. INHALATION: RESPIRATORY IRRITATION AND FUMES ARE ABSORBED THROUGH LUNGS AND CAUSES LUNG DAMAGE. INGESTION: CORROSIVE, BURNS TO MOUTH AND THROAT, NAUSEA AND VOMITING CAN CAUSE TOXIC EFFECTS. TARGET ORGANS: CENTRAL NERVOUS SYSTEM, BLOOD FORMING ORGANS AND KIDNEYS.

Signs And Symptoms Of Overexposure: LITHIUM: NEUROMUSCULAR EFFECTS, HYPERACTIVE REFLEXES AND WEIGHT LOSS. FLUORIDE: OSSEOUS FLUOROSIS, INCREASED RADIOGRAPHIC DENSITY OF BONES AND MOTTLING OF THE TEETH.

Medical Cond Aggravated By Exposure: PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA AND DERMATITIS.

First Aid: INHALATION: REMOVE TO FRESH AIR. APPLY CPR IF NECESSARY. EYE: FLUSH W/ WATER FOR 15 MINS. REMOVE CONTACTS, HOLD EYELIDS APART TO ENSURE ENTIRE SURFACE OF EYES AND LIDS ARE RINSED. SKIN: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. OBTAIN MEDICAL ATTENTION IN ALL CASES. INGESTION: GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS GIVE FLUIDS AGAIN. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. NOTE TO PHYSICIAN: THERE IS NO SPECIFIC ANTIDOTE, TREAT SYMPTOMS

=====
Handling and Disposal
=====

Spill Release Procedures: CONTAIN SPILL, ABSORB AND SWEEP UP. REMOVE AND FLUSH AREA WITH WATER TO SANITARY SEWER.

Neutralizing Agent: NONE KNOWN

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.

Handling And Storage Precautions: STORE INDOORS AT MIN 35F TO MAX 100F.

ALWAYS STORE IN ORIGINAL CONTAINER, KEEP TIGHTLY CLOSED WHEN NOT IN USE.

Other Precautions: KEEP OUT OF REACH OF CHILDREN. READ ENTIRE LABEL BEFORE USING, FOLLOW LABEL DIRECTIONS

=====
Fire and Explosion Hazard Information
=====

Flash Point Text: NON-FLAMMABLE

Extinguishing Media: FOAM, CARBON DIOXIDE, WATER SPRAY

Fire Fighting Procedures: WEAR SELF CONTAINED BREATHING APPARATUS & PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard: NONE KNOWN

=====
Control Measures
=====

Respiratory Protection: IF THE WORK AREA IS NOT VENTILATED TO REMOVE ALL FUMES AND DUST USE A WEAR ANIOSH APPROVED RESPIRATOR

Ventilation: VENTILATION/LOCAL EXHAUST AT THE ARC OR BOTH TO KEEP FUMES/GASES BELOW TLV'S IN WORKER'S BREATHING ZONE & GENERAL AREA.

Protective Gloves: CHEMICAL AND ACID IMPERVIOUS

Eye Protection: CHEMICAL SAFETY GOGGLES

Other Protective Equipment: FULL PROTECTION EQUIPMENT AS USED IN BRAZING OR WELDING OPERATION TO PREVENT CONTACT

Work Hygienic Practices: TRAIN WORKER TO KEEP HIS HEAD OUT OF FUMES

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

Solubility in Water: NEGLIGIBLE

Appearance and Odor: WHITE, OPAQUE POWDER, NO ODOR

=====
Reactivity Data
=====

Stability Indicator: YES
Stability Condition To Avoid: NONE
Materials To Avoid: STRONG ACIDS, CYANIDES AND SULFIDES
Hazardous Decomposition Products: IN THE PRESENCE OF WATER AND HEAT,
HYDROCHLORIC ACID AND HYDROGEN FLOURIDE WILL BE GIVEN OFF
Hazardous Polymerization Indicator: NO

=====

Toxicological Information

=====

Toxicological Information: LITHIUM CHLORIDE: SKN - RBT: 500MG/24H - SEVERE,
EYE-RBT: 100MG/24H - MODERATE , ORL-HMN LDLO: 200 MG/KG/3D. ZINC CHLORIDE:
ORL - HMN TDLO: 169MG/KG, IHL -HMN TCLO: 4800MG/M3/30M

=====

MSDS Transport Information

=====

Regulatory Information

=====

Sara Title III Information: 313: ZINC CHLORIDE
Federal Regulatory Information: IF UE (USE EXEMPTION) APPEARS UNDER UPPER %
LIMIT END USERS ARE EXEMPT FROM NOTIFICATION BECAUSE THE PRODUCT IS USED
AND LABELED FOR ROUTINE JANITORIAL WORK OR THE PRODUCT IS USED AND LABELED
FOR FACILITY GROUNDS MAINTENANCE (SUCH AS FERTIL IZERS AND HERBICIDES) OR
THE PRODUCT IS USED AND LABELED FOR MAINTAINING MOTOR VEHICLES.
State Regulatory Information: CALIFORNIA PROPOSITION 65: WARNING THIS PRODUCT
CONTAINS THE FOLLOWING CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE
CANCER OR BIRTH OR OTHER REPRODUCTIVE HARM -- NONE

=====

Other Information

=====

Other Information: HEALTH: 3 FIRE: 1 REACTIVITY: 0 PERSONAL PROTECTION:
NONE. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE
HOWEVER NO WARRENTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS
DATA. X-ERGON ASSUMES NO R ESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY
DAMAGE CAUSED BY THE USE, USER ASSUMES ALL RISKS.

=====

HAZCOM Label

=====

Product ID: ALUMINUM BRAZING FLUX
Cage: 55649
Company Name: X-ERGON A PARTSMASTERS CO DIV NCH CORP
PO Box: 152170
City: IRVING TX
Zipcode: 75051
Health Emergency Phone: 972-438-1381
Label Required IND: Y
Date Of Label Review: 07/20/2000
Status Code: A
Origination Code: G

Hazard And Precautions: EYE: CORROSIVE, BURNING, CORNEAL DAMAGE AND POSSIBLE
BLINDNESS. SKIN: CORROSIVE, BURNS AND POSSIBLE DEEP ULCERATIONS OR
SCARRING. INHALATION: RESPIRATORY IRRITATION AND FUMES ARE ABSORBED THROUGH
LUNGS AND CAUSES LUNG DAMAGE. INGESTION: COR ROSIVE, BURNS TO MOUTH AND
THROAT, NAUSEA AND VOMITING CAN CAUSE TOXIC EFFECTS. TARGET ORGANS:
CENTRAL NERVOUS SYSTEM, BLOOD FORMING ORGANS AND KIDNEYS.

=====

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

information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.