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DATE OF ISSUE
4/26/2005

SUPERSEDES
2/03/2003

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms

Trade Name & Synonyms
ALU-FLOW

Chemical Family:
ALUMINUM BRAZING ALLOY

Formula Mixture --> X

Manufacturer's Name:
X-ERCON by Partsmaster, Div of NCH Corp.

Address:
P.O. Box 655326
Dallas, TX 75265-5326

Prepared By:
a.santiago/Chemist

Product Code Number
24260000

Emergency Phone Number
800-535-5035

SECTION II - HAZARDOUS INGREDIENTS
THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)	Hazard	TLV	PEL	STEL	CAS #
ALUMINUM	IRRITANT	2 MG/M3	5 MG/M3	N/A	7429-90-5
SILICON	NUIS. DUST	10 MG/M3	5 MG/M3	N/A	7440-21-3
ALUMINUM POTASSIUM FLUORIDE	IRRITANT	2.5 MG/M3	2.5 MG/M3	N/A	60304-36-1
PROPRIETARY FLUOROSILICATE COMPOUND	INERT	2.5 MG/M3	2.5 MG/M3	N/A	PROPRIETARY

SECTION III - PHYSICAL DATA

Boiling Point (F):	N/A	Specific Gravity (H2O=1):	2.8
Vapor Pressure (MM HG):	N/A	Color:	SILVERY-GREY
Vapor Density (Air=1):	N/A	Odor:	ODORLESS
PH @ 100% :	N/A	Clarity:	OPAQUE
Volatile by Volume:	0	Evaporation Rate (EU A/C=1):	N/A
Solubility:	NEGLIGIBLE	Viscosity:	SOLID

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point	Flammable Limits	LEL	UEL
N/A /	N/A	N/A	N/A

Extinguishing Media
 <--Foam <--Alcohol Foam <--CO2 <--Dry Chemical <--Water Spray <--Other

Special Fire Fighting Procedures:
 THIS ALLOY IS NONCOMBUSTIBLE. HOWEVER, WELDING ARCS AND SPARKS CAN IGNITE COMBUSTIBLE AND FLAMMABLE MATERIALS. USE EXTINGUISHING MEDIA APPROPRIATE TO THE SURROUNDING FIRE.

Unusual Fire and Explosion Hazards:
 NON-FLAMMABLE, WELDING ARC AND SPARK CAN IGNITE COMBUSTIBLES. REFER TO AMERICAN NATIONAL STANDARD Z49.1 FOR FIRE PREVENTION DURING WELDING AND ALLIED PROCESSES.

Aerosol Level (NFPA 30B): N/A

NFPA 704 Hazard Rating (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)
 2 <--Health 0 <--Flammability 0 <--Instability <--Special

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:
 GENERALLY ESTABLISHED FOR WELDING FUMES AT 5 MG/M3. MAY BE LOWER FOR SOME CONSTITUENTS. SEE SECTION II.

Effects of Overexposure:

-Acute (Short Term Exposure)
 INHALATION: MAY CAUSE RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING. SKIN CONTACT: PROLONGED OR REPEATED CONTACT MAY CAUSE DRYING AND CHAPPING OF THE SKIN. EYE CONTACT: MAY CAUSE IRRITATION SEEN AS STINGING, TEARING, AND REDNESS.

-Chronic (Long Term Exposure)
 INDIVIDUALS WITH ALLERGIES OR IMPAIRED RESPIRATORY FUNCTION MAY HAVE SYMPTOMS WORSENERED BY EXPOSURE TO BRAZING FUMES. CHRONIC EXPOSURE TO THE POWDER FLUX CAN CAUSE BONE AND DENTAL FLUOROSIS A CONDITION CAUSED BY EXCESSIVE EXPOSURE TO FLUORINE AND MARKED BY MOTTLING OF THE TEETH AND DAMAGE TO THE BONES, BRONCHITIS OR CHRONIC DERMATITIS. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, RHYSEMA, AND DERMATITIS.

Primary Routes of Entry: X <--Inhalation <--Ingestion <--Absorption

Emergency and First Aid Procedures:
 -Inhalation:

IF FUMES ARE INHALED, REMOVE FROM THE AREA TO FRESH AIR. IF NOT BREATHING, CLEAR THE AIRWAY AND START MOUTH-TO-MOUTH ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

SECTION V - HEALTH HAZARD DATA (Continued)

-Eye Contact:

IMMEDIATELY RINSE THE EYES WITH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Skin Contact:

AFFECTED AREAS WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Ingestion:

GIVE 3 TO 4 GLASSES OF WATER. INDUCE VOMITING BY PLACING A FINGER OR BLUNT OBJECT ON THE BACK OF THE PERSON'S TONGUE. GIVE FLUIDS AGAIN. GET MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

-Notes to Physician:

NONE KNOWN

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC--> No NTP--> No OSHA--> No ACGIH--> No OTHER--> No

ALUMINUM

LD50, ROUT, SPECIES - NOT AVAILABLE

LC50, ROUT, SPECIES - NOT AVAILABLE

SILICON

LD50, ROUT, SPECIES - NOT AVAILABLE

LC50, ROUT, SPECIES - NOT AVAILABLE

ALUMINUM POTASSIUM FLUORIDE

LD50, ROUT, SPECIES - NOT AVAILABLE

LC50, ROUT, SPECIES - NOT AVAILABLE

SENSITIZATION TO PRODUCT: N/A

REPRODUCTIVE TOXICITY: N/A

TERATOGENICITY: N/A

MUTAGENICITY: N/A

NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCT: N/A

SECTION VII - REACTIVITY DATA

Stability: X <--Stable <--Unstable

Conditions to Avoid:

NONE KNOWN

Incompatibility (Materials to Avoid):

STRONG ACIDS AND STRONG BASES.

Hazardous Decomposition Products:

DIOGEN FLUORIDE

Hazardous Polymerization: <--May Occur X <--Will Not Occur

Conditions to Avoid:

NONE KNOWN

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled:

VACUUM OR SHOVEL ANY SPILLED MATERIAL INTO A SUITABLE CONTAINER FOR DISPOSAL. AVOID DUST FORMATION.

Waste Disposal Method(s):

DISPOSE OF ANY GRINDING DUST OR WASTE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Neutralizing Agent:

N/A

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE DUSTY CONDITIONS. LOCAL VENTILATION IS PREFERRED, BECAUSE IT PREVENTS DISPERSION INTO WORK AREAS BY CONTROLLING IT AT ITS SOURCE. TO KEEP THE FUMES AND GASES BELOW THE TLV'S IN THE WORKERS BREATHING ZONE AND THE GENERAL AREA. TRAIN THE WELDER TO KEEP HIS HEAD OUT OF THE FUMES. SEE ANSI/ASCZ49.1 SECTION 5.

Respiratory Protection:

USE NIOSH APPROVED OR EQUIVALENT RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN BRAZING IN A CONFINED SPACE OR WHEN LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Glove Protection:

WELDER'S LEATHER GLOVES

Eye Protection:

WEAR EYE PROTECTION ADEQUATE TO PREVENT EYE INJURY FROM THE HAZARDS OF BRAZING. PLASTIC FRAMES SPECTACLES WITH SIDE SHIELD AND FILTER LENSES SHADE #3 AND #4 ARE RECOMMENDED.

Other Protection:

WEAR HEAD, HAND AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION. SEE ANSI Z-49.1.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors--> X Outdoors--> Heated--> Refrigerated-->
 Minimum Temperature: Maximum Temperature:

Precautions to be Taken in Handling and Storing:

SECTION X - STORAGE AND HANDLING INFORMATION (Continued)

KEEP AWAY FROM STROG ACIDS AND STRONG BASES.

Other Precautions:

OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS. AFTER USING THIS PRODUCT WASH HANDS AND BEFORE EATING AND DRINKING. DO NOT TAKE INTERNALLY.

SECTION XI - REGULATORY INFORMATION

Chemical Name	CAS Number	Upper % Limit
ALUMINUM	7429-90-5	90

Those ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer.
This MSDS is not intended for users in the state of California.

SECTION XII - REFERENCES

1. SAX'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, TENTH EDITION, RICHARD J. LEWIS, SR.
2. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFOWeb, 2003.
OSHA PEL.

ALL THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (TSCA) AND ARE EITHER LISTED ON THE TSCA INVENTORY OR OTHERWISE EXEMPTED FROM LISTING.

THIS PRODUCT HAS BEEN CLASSIFIED WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

SPECIAL SHIPPING INFORMATION: THIS PRODUCT IS NOT A HAZARDOUS OR DANGEROUS GOODS PER OSDOT/IATA/IMO REGULATIONS.

IRR: IRRITANT, FLAM/FLAMM: FLAMMABLE, COMB: COMBUSTIBLE, PRIM: PRIMARY,
NOT EST.: NOT ESTABLISHED, CORR: CORROSIVE CARC: CARCINOGENIC, TOX: TOXIC, N/A: NOT
APPLICABLE, N/E: NOT ESTABLISHED, COC: CLEVELAND OPEN CUP, FMCC: PENSKY-MARTIN CLOSED CUP, TCC: TAGLIABUE CLOSED CUP, LEL: LOWER EXPLOSION LIMIT,
UEL: UPPER EXPLOSION LIMIT,
NFPA: NATIONAL FIRE PROTECTION ASSOCIATION, IARC: INTERNATIONAL AGENCY FOR THE RESEARCH ON CANCER, NTP: NATIONAL TOXICOLOGY PROGRAM, OSHA: OCCUPATIONAL
SAFETY & HEALTH ADMINISTRATION, ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV: THRESHOLD LIMIT VALUE, PEL: PERMISSIBLE EXPOSURE
LIMIT, STEL: SHORT-TERM EXPOSURE LIMIT, MLD: MILD, MOD: MODERATE, SEV: SEVERE, MUT: MUTAGENIC, ASPHYX: ASPHYXIANT, PPOS: PARTICULATES (INSOLUBLE) NOT
OTHERWISE SPECIFIED, SDT: STANDARD DRAIZE TEST, ORL: ORAL, IHL: INHALATION, HMN: HUMAN

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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