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KAISER ALUMINUM & CHEMICAL CORP -- ALUMINUM ALLOYS CONTAINING CHROMIUM (KDS-4A) -- 3439-01-218-5212

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

Product ID:ALUMINUM ALLOYS CONTAINING CHROMIUM (KDS-4A)

MSDS Date:07/01/1993

FSC:3439

NIIN:01-218-5212

MSDS Number: BTHPV === Responsible Party ===

Company Name: KAISER ALUMINUM & CHEMICAL CORP

Address:6177 SUNOL BLVD

City:PLEASANTON

State:CA

ZIP:94566-7769

Country :US

Info Phone Num:510-847-5892

CAGE:9B092

=== Contractor Identification ===

Company Name: KAISER ALUMINUM & CHEMICAL CORP

Address:OLD HIGHWAY 60

Box:City:MULBERRY

State:FL ZIP:33860 Country:US

Phone:941-425-1195

CAGE:9B092

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

Ingred Name: ALUMINUM (SARA III) THIS IS BASE METAL FOR THIS PRODUCT.

CAS:7429-90-5

RTECS #:BD0330000 Fraction by Wt: 80-99.7%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15 MG/M3 DUST ACGIH TLV:10 MG/M3 DUS Ingred Name: THE NEXT 8 INGREDIENTS ARE ALLOYING ELEMENTS IN THE PRODUCT

RTECS #:9999999ZZ

Other REC Limits: NONE RECOMMENDED

Ingred Name: CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000 Fraction by Wt: 0.1-1.0%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9394

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name: COBALT (SARA III), DUST AND FUME

CAS:7440-48-4

RTECS #:GF8750000 Fraction by Wt: 1-10%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.1 MG/M3

ACGIH TLV:0.

05 MG/M3;DUST 9394

Ingred Name: COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000 Fraction by Wt: 1-10%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH TLV:0.2 MG/M3 FUME; 9394

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: IRON OXIDE FUME

CAS:1309-37-1

RTECS #:NO7400000 Fraction by Wt: 1-10%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:10 MG/M3 (FE)

ACGIH TLV:5MG/M3(FE)FUME,B2;94

Ingred Name: MAGNESIUM OXIDE

CAS:1309-48-4

RTECS #:OM3850000 Fraction by Wt: 1-10%

Othe

r REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 PARTICULATE ACGIH TLV:10 MG/M3;TDUST; 9394

Ingred Name: MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:009275000 Fraction by Wt: 1-10%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:C 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9394

Ingred Name:SILICON

CAS:7440-21-3

RTECS #:VW0400000 Fraction by Wt: 10-20%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9394

Ingred Name:ZINC OXIDE

CAS:1314-13-2

RTECS #:ZH4810000

Fraction by W

t: 1-10%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9394

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

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYES: MAY IRRITATE EYES WHEN WELDING OR PLASMA CUTTING. SKIN: NOT LIKELY TO BE A HEALTH PROBLEM.

INHALATION: NOT LIKELY UNLESS MACHI

NED, WELDED OR REMELTED.

EXPOSURE TO ZINC OXIDE FUME CAN RESULT IN " ZINC CHILLS" (METAL FUME FEVER). INGESTION: NOT LIKELY TO BE A HEALTH PROBLEM.

Explanation of Carcinogenicity:PER MFG. MSDS: CHROMINUM IS LISTED IN NTP. ITS PRESENCE IS NOT EXPECTED A CARCINOGENIC RISK. (SEE SUPPL. FOR ADDED INFO.

Effects of Overexposure:UPPER RESPIRATORY TRACT IRRITATION, EYE IRRITATION, SKIN IRRITATION, FEVER, CHILLS, NAUSEA, VOMITING AND MUSCULAR PAIN. RECOVERY IS USUALLY COMPLETE IN

24 TO 48 HOURS.

LD RESULT IN A DEGREASER FIRE OR

EXPLOSION. VAPOR DEGREASER MUST BE PROPERLY MAINTAINED TO LIMIT THE RISK OF EXPLOSION. ADDED INFO. ON CARCINOGENICITY PER MFG.-LUBRIC ANTS CONTAINING POLYCYCLIC AROMATIC HYDROCARBONS ARE LISTED IN IARC ON MINERAL OILS. IT IS LOW CONCENTRATION IN PRODUCT.

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:950F,510C

Spec Gravity:2.5-2.9

Solubility in Water:NEGLIGIBLE
Appearance and Odor:METALLIC
APPEARANCE WITH NO ODOR.

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

Stability Indicator/Materials to Avoid:YES

ANHYDROUS BROMINE.

Stability Condition to Avoid:ACIDS AND BASES IN CONTACT WITH ALUMINUM MAY GENERATE EXPLOSIVE MIXTURES WITH HYDROGEN.

Hazardous Decomposition Products:WELD OF ALUMINUM ALLOYS MAY GENERATE CARBON MONOXIDE, CARBON DIOXIDE, OZONE, NITROGEN OXIDES, INFRA-RED RADIATION.

Waste Disposal Methods:USED OR UNUSED PRODUCT SHOULD BE TESTED TO DETERMINE HAZARD STATUS AND DISPOSAL REQUIREMENTS UNDER FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DIS POSAL OR DISCHARGE LAWS.

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