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## **ALUMINUM ALLOYS 1XXX THRU 8XXX SERIES, P633**

### **MSDS Number**

BQVCM

### **National Stock Number**

9510-00N037730

### **Product Name**

ALUMINUM ALLOYS 1XXX THRU 8XXX SERIES, P633

### **Manufacturer**

METAL GOODS SERVICE CENTERS

### **Product Identification**

Product ID:ALUMINUM ALLOYS 1XXX THRU 8XXX SERIES, P633

MSDS Date:11/02/1991

FSC:9510

NIIN:00N037730

MSDS Number: BQVCM

### **Responsible Party**

METAL GOODS SERVICE CENTERS

ST LOUIS , MO 63166

US

Emergency Phone: 216-523-6860

Info Phone: 314-427-1234

Cage: 39861

### **Contractor**

METAL GOODS SERVICE CENTERS DIV OF ALCAN ALUMINUM CORP

346

ST LOUIS, MO 63166

US

314-427-1234

Cage: 39861

### **Ingredients**

(IARC) IARC MONOGRPH. VOL. 52, P. 363, 1991.

RTECS: 999999ZZ

### **INFORMATION AND SAFE HANDLING & EXPOSURE**

RTECS: 999999ZZ

15 MG/M3 DUST;5 MG/M3 RDUST.

CAS: 7429-90-5

RTECS: BD0330000

Fraction By Weight: 80-99%

OSHA PELSEE INGREDIENT NAME

ACGIH TLV: 10MG/M3 DUST



COPPER (SARA III)

CAS: 7440-50-8

RTECS: GL5325000

Fraction By Weight:

OSHA PEL1MG/M3 DUST;OIL FUME

ACGIH TLV: 1MG/M3 DUST;OIL FUME

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

10 MG/M3 TDUST; 5 MG/M3 RDUST.

CAS: 7439-95-4

RTECS: OM2100000

Fraction By Weight: < 10%

OSHA PELSEE INGREDIENT NAME

ACGIH TLV: 10 MG/M3 TDUST

ZINC (SARA III)

CAS: 7440-66-6

RTECS: ZG8600000

Fraction By Weight: < 10%

OSHA PEL5 MG/M3 STEL

ACGIH TLV: 5 MG/M3 STEL

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

(ORAL,RAT) 6170 MG/KG

CAS: 7440-48-4

RTECS: GF8750000

Fraction By Weight: < 2%

OSHA PEL0.1 MG/M3;AS CO

ACGIH TLV: 0.05 MG/M3;DUST 9293

IRON

CAS: 7439-89-6

RTECS: NO4565500

Fraction By Weight: < 2%

OSHA PEL10 MG/M3 DUST

ACGIH TLV: 5 MG/M3 FUME

(ORAL,RAT) 9000 MG/KG

CAS: 7439-96-5



RTECS: OO9275000

Fraction By Weight: < 2%

OSHA PEL(C) 5 MG/M3 DUST

ACGIH TLV: 5 MG/M3 DUST 9293

10 MG/M3 TDUST;5

CAS: 7440-21-3

RTECS: VW0400000

Fraction By Weight: < 2%

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3 TDUST; 9293

TIN

CAS: 7440-31-5

RTECS: XP7320000

Fraction By Weight: < 0.5%

OSHA PEL2 MG/M3

ACGIH TLV: 2 MG/M3

CHROMIUM (SARA III)

CAS: 7440-47-3

RTECS: GB4200000

Fraction By Weight: < 0.5%

OSHA PEL1 MG/M3

ACGIH TLV: 0.5 MG/M3

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

(ORAL,RAT) 100 MG/KG

CAS: 7440-02-0

RTECS: QR5950000

Fraction By Weight: < 0.5%

OSHA PEL1 MG/M3

ACGIH TLV: 1 MG/M3

LEAD (SARA III)

CAS: 7439-92-1

RTECS: OF7525000

Fraction By Weight: < 1%

OSHA PEL0.05 MG/M3

ACGIH TLV: 0.15 MG/M3

EPA Report Quantity: 1 LB



DOT Report Quantity: 1 LB

PRESENT LOW HEALTH RISKS. WELDING OR PLASMA ARC

RTECS: 9999999ZZ

OXIDES AND ULTRAVIOLET RADIATION. OZONE

RTECS: 9999999ZZ

LEAD (7439-92-1) APPEARS ON NAVY LISTING OF OCCUP

RTECS: 9999999ZZ

HLTH PROFESSIONALS CONCERNING LATEST HAZ LIST

RTECS: 9999999ZZ

MAY BE REQUIRED TO AVOID EXPLO HAZ. SEE "NATIONAL

RTECS: 9999999ZZ

## Hazards

LD50 LC50 Mixture:SEE INGREDIENTS

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

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

Health Hazards Acute and Chronic:ACUTE: INHAL: IN THE FORM OF INGOT, ALUMINUM DOES NOT PRESENT AN INHALATION HAZARD. ALUMINUM AND SILICON DUSTS GENERATED DURING USE ARE CONSIDERED NUISANCE PARTICULATES WHICH HAVE LITTLE EFFECT ON THE LUNGS. HIGH CONC OF FRESHLY-FORMED FUMES OF COPPER, MAGNESIUM, MANGANESE OR ZINC OXIDES CAN PRODUCE (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NICKEL:ANTICIPATED TO BE A CARCIN (NTP). GROUP 2B (IARC), IARC MONOGRPHS, VOL. 49, P. 257, 1990. COBALT: GRP 2B (ING 18)

Effects of Overexposure:HLTH HAZ: SYMPTOMS OF METAL FUME FEVER. HIGH CONC OF COPPER DUST CAN CAUSE IRRIT OF THE UPPER RESP TRACT. SKIN: SKIN CNTCT W/METAL CAN CAUSE BURNS. EYE: ALUMINUM DUST CAN IRRITATE THE EYES (MECHANICAL ABRASION). LEAD CMPNDS BIOACCUMULATE. THE MOST FREQUENT CHRONIC EFTS ARE ANEMIA, KIDNEY & CNS DAMAGES. MED (SUPP DATA)

## First Aid

First Aid:INHAL: REMOVE TO A VENTILATED AREA. IF DISCOMFORT PERSISTS, CONSULT A PHYSICIAN. SKIN: IN CASE OF BURNS, RINSE WITH PLENTY OF COLD WATER. IF BURN IS SEVERE, CONSULT A PHYSICIAN. EYE: FLUSH EYES THOROU GHLY WITH WATER FOR AT LEAST 15 MIN. IF IRRITATION PERSISTS, CONSULT A PHYSICIAN. INGEST: CALL MD IMMEDIATELY .

## Fire Fighting

Extinguishing Media:IN CASE OF ALUMINUM FIRES, USE A CLASS D DRY-POWDER EXTING OR DRY SAND. DO NOT USE WATER OR HALOGENATED EXTING MEDIA.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:NOT A FIRE HAZARD UNLESS IN FINELY-DIVIDED FORM. SUSPENSIONS OF ALUMINUM DUST IN AIR MAY POSE A SEVERE EXPLOSION HAZARD.

## Accidental Release

Spill Release Procedures:RECYCLE. FINELY-DIVIDED ALUMINUM MAY BE REACTIVE AND ITS HAZARD CHARACTERISTICS SHOULD BE DETERMINED PRIOR



TO DISPOSAL.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

## Handling

Handling and Storage Precautions:BECAUSE OF RISK OF EXPLOS, ALUMINUM INGOTS & METAL SCRAP SHLD BE THORO DRIED PRIOR TO REMELTING. USE STD TECHNIQUES TO CHEK METAL TEMP BEFORE HNDLG.

Other Precautions:HOT ALUMINUM DOES NOT PRESENT ANY WARNING COLOR CHANGE. EXERCISE GREAT CAUTION, SINCE THE MEATAL MAY BE HOT. NOTE: LEAD APPEARS ON THE NAVY LISTING OF OCC. CHEM. REPRO. HAZ. CONSULT APPROP. HLTH PROFE SSIONAL ABOUT LATEST HAZ LIST (ING 19)

## Exposure Controls

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR DESIGNED FOR THE HAZARD, WHERE CONCENTRATIONS EXCEED EXPOSURE LIMITS.

Ventilation:IF VENT IS USED TO CONVEY FINELY DIVIDED ALUMINUM GENERATED BY GRINDING, SAWING ETC. SPECIAL VENT PROVISIONS (ING 17)

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:CHEMICAL WORKERS GOGGLES

Other Protective Equipment:THE USE OF BOTH PRIMARY AND SECONDARY PROTECTIVE EQUIPMENT IS NECESSARY WHEN HANDLING MOLTEN METAL.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

MATLS TO AVOID: ACIDS, HALOGENATED SOLVENTS, BROMATES, IODATES OR AMMONIUM NITRATE. FINELY-DIVIDED ALUMINUM CAN THERMITE IN PRESENCE OF COPPER, LEAD, OR IRON OXIDES. EFTS OF OVEREXP: SURVEILLANCE SHOU LD BE UNDERTAKEN TO PVNT HIGH BLOOD LEAD LEVELS. SUPP INFO: ALUMINUM FUMES GENERATED DURING WELDING OR MELTING (ING 13)

## Chemical Properties

Melt/Freeze Pt:M.P/F.P Text:Spec Gravity:> 2 (WATER=1)

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

## Stability

Stability Indicator/Materials to Avoid:YES

MOLTEN ALUMINUM MAY EXPLO ON CNTCT W/WATER. FINELY-DIVIDED ALUMINUM MAY EXPLODE WHEN MIXED W/HALOGENATED (SUPP DATA)

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:FINELY-DIVIDED ALUMINUM REACTS W/HALOGENATED ACIDS, WATER, AND SODIUM HYDROXIDE, PRODUCING HYDROGEN GAS.

## Disposal

Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE WITH FEDERAL, STATE, OR LOCAL REGULATIONS.

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