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## **ALUMINUM ALLOYS CONTAINING LEAD, LEADED 2011 & 6262**

### **MSDS Number**

CKMVR

### **National Stock Number**

9540-00N092302

### **Product Name**

ALUMINUM ALLOYS CONTAINING LEAD, LEADED 2011 & 6262

### **Manufacturer**

A M CASTLE AND CO

### **Product Identification**

Product ID:ALUMINUM ALLOYS CONTAINING LEAD, LEADED 2011 & 6262

MSDS Date:10/01/1997

FSC:9540

NIIN:00N092302

Status Code:A

MSDS Number: CKMVR

### **Responsible Party**

A M CASTLE & CO

3400 N WOLF ROAD

FRANKLIN PARK , IL 60131

US

Emergency Phone: 847-455-7111

Info Phone: 847-455-7111

Cage: 11045

### **Contractor**

CASTLE A M AND CO

FRANKLIN PARK, IL 60131-1319

US

847-455-7111

Cage: 11045

### **Ingredients**

BASE METAL (CONTAINING INGREDIENT 2)

OSHA PELN/K

ACGIH TLV: N/K

ALUMINIUM (AL)

CAS: 7429-90-5

RTECS: BD0330000

OSHA PEL15 MG/M3

ACGIH TLV: 10 MG/M3

ALLOYING ELEMENTS (CONTAINING INGREDIENTS 4 TO 13)

OSHA PELN/K

ACGIH TLV: N/K

COPPER (CO)

CAS: 7440-50-8

RTECS: GL5325000

OSHA PEL1 MG/M3

ACGIH TLV: 1 MG/M3

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

MAGNESIUM OXIDE; (MAGNESIUM (MG))

CAS: 1309-48-4

RTECS: OM3850000

OSHA PEL15 MG/M3

ACGIH TLV: 10 MG/M3

ZINC OXIDE; (ZINC (ZN))

CAS: 1314-13-2

RTECS: ZH4810000

OSHA PEL15 MG/M3

ACGIH TLV: 5 MG/M3

COBALT (CO)

CAS: 7440-48-4

RTECS: GF8750000

OSHA PEL0.1 MG/M3

ACGIH TLV: 0.02 MG/M3

IRON (FE)

CAS: 7439-89-6

RTECS: NO4565500

OSHA PEL10 MG/M3

ACGIH TLV: 5 MG/M3

MANGANESE (MN)

CAS: 7439-96-5

RTECS: OO9275000

OSHA PELC5 MG/M3

ACGIH TLV: 5 MG/M3

SILICON (SI)

CAS: 7440-21-3

RTECS: VW0400000  
OSHA PEL15 MG/M3  
ACGIH TLV: 10 MG/M3

TIN (SN)  
CAS: 7440-31-5  
RTECS: XP7320000  
OSHA PEL2 MG/M3  
ACGIH TLV: 2 MG/M3

CHROMIUM (CR)  
CAS: 7440-47-3  
RTECS: GB4200000  
OSHA PEL1 MG/M3  
ACGIH TLV: 0.5 MG/M3  
EPA Report Quantity: 1 LB  
DOT Report Quantity: 1 LB

NICKEL (NI)  
CAS: 7440-02-0  
RTECS: QR5950000  
OSHA PEL1 MG/M3  
ACGIH TLV: 1 MG/M3

LEAD (PB); LEADED ALLOYS 2011 AND 6262.  
CAS: 7439-92-1  
RTECS: OF7525000  
ACGIH TLV: 0.15 MG/M3  
EPA Report Quantity: 1 LB  
DOT Report Quantity: 1 LB

## Hazards

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:NOTE: STEEL PRODS IN THE NATRL STATE  
DO NOT PRESENT AN INHAL, INGEST/CONT HAZ. HOWEVER, OPERATIONS SUCH  
AS BURNING, WELDING, SAWING, BRAZING & GRINDING MAY RELEASE FUMES  
&/OR DUSTS WHICH MAY PRESENT H LTH HAZS IF TLV'S ARE EXCEEDED. EFTS  
OF OVEREXP: ALUMINUM DUST SHOULD BE TREATED AS A NUISANCE DUST &  
HIGH EXPOS MAY PRDCE IRRIT OF EYES & RESP SYS. THE POTENTIAL FOR  
OVEREXP TO COPPER FUMES MAY EXIST WHEN WELDING, FLAME CUTTING,  
ETC, ON ALLOYS CONTAINING HIGH AMTS OF COPPER >2.5%. THESE ALLOYS  
INCL 2XXX, 7XXX & 4145 WROUGHT ALLOYS. OVEREXP TO COPPER FUMES CAN  
RSLT IN RESP IRRIT, NAUS & METAL FUME FEVER. (EFTS OF OVEREXP)  
Explanation of Carcinogenicity:COBALT: IARC MONOGRAPHS, VOLUME 52, PAGE  
363, 1998: GROUP 2B. ANIMAL: GASTROINTESTINAL. NICKEL: IARC  
MONOGRAPHS, VOLUME 49, PAGE 257, 1998: GROUP 2B. NTP 8TH ANNUAL  
REPORT ON CARCINOGENS, 1998: REASON ABLY ANTICIPATED TO BE ANIMAL  
CARCINOGEN. ANIMAL: LUNGS, NASAL CAVITIES.

Effects of Overexposure:HLTH HAZ: NICKEL & CHROMIUM ARE CONTAINED IN CERTAIN ALLOYS AT LEVELS OF 0.1% OR MORE. CHROMIUM & NICKEL & THEIR CMPDS ARE LISTED IN THE 3RD ANNUAL RPT ON CARCINS, AS PREPARED BY NTP. THEIR PRESENCE I N ALUMINUM ALLOYS, HOWEVER, SHOULD NOT PRESENT A CARCIN/HLTH CONCERN DUE TO EITHER THEIR LOW CONCS/CHEM FORM IN WHICH THEY ARE PRESENT. INHAL/INGEST OF LEAD PARTICLES MAY RSLT IN LEAD-INDUCED SYSTEMIC TOXICITY. SYMPS OF LEAD POIS INCL ABDOM CRAMPS, ANEMIA, MUSC WEAK & HDCH. PRLNG EXPOS CAN CAUSE BEHAVIORAL CHANGES, KIDNEY DMG, CNS DMG & REPRO EFTS. PLASMA ARC CUTTING/WELDING ALUMINUM CAN GENERATE OZONE. (SUP DAT)

## First Aid

First Aid:INHALATION: IF EXPOSED TO EXCESSIVE LEVELS OF METAL FUMES, REMOVE TO FRESH AIR. SEEK MEDICAL AID IMMEDIATELY. EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. SKIN: FLUSH WITH COPIOUS AMOUNTS OF WATER. SEE MD . INGESTION: CALL A PHYSICIAN IMMEDIATELY .

## Fire Fighting

Extinguishing Media:DRY POWDER (CLASS D) OR SAND.

Fire Fighting Procedures:WEAR NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT . DO NOT USE WATER OR HALOGEN ON DUST FIRES.

Unusual Fire/Explosion Hazard:DAMP ALUMINUM DUST MAY SPONTANEOUSLY HEAT WITH LIBERATION OF HYDROGEN TO FORM EXPLOSIVE MIXTURES. MOLTEN MAY EXPLODE ON CONTACT WITH WATER.

## Accidental Release

Spill Release Procedures:NOT APPLICABLE.

## Handling

Handling and Storage Precautions:HALOGEN ACIDS AND SODIUM HYDROXIDE IN CONTACT WITH ALUMINUM MAY GENERATE MIXTURES OF HYDROGEN. FINELY DIVIDED ALUMINUM WILL FORM EXPLOSIVE MIXTURES IN AIR. IT WILL ALSO FORM EXPLOSIVE MIXTURES IN AIR IN THE PRESENCE OF BROMATES, IODATES OR AMMONIUM NITRATE.

Other Precautions:WHEN REMELTING ALUMINUM SCRAPS, ENTRAPPED MOISTURE/PRESENCE OF STRONG OXIDIZERS SUCH AS AMMONIUM NITRATE COULD CAUSE EXPLO. THIS APPLIES TO COLLECTION OF MOISTURE IN SOW CAVITIES AS WELL. MOISTURE MUST BE DRIVEN OFF PRIOR TO REMELTING. DO NOT TOUCH CAST ALUMINUM METAL/HEATED ALUMINUM PROD W/OUT KNOWI NG (OTHER INFO)

## Exposure Controls

Respiratory Protection:NIOSH APPROVED DUST AND FUME RESPIRATOR SHOULD BE USED TO AVOID EXCESSIVE INHALATION OF PARTICULATES WHEN EXPOSURE EXCEEDS TLV'S.

Ventilation:LOCAL EXHAUST VENTILATION SHOULD BE UTILIZED WHEN WELDING, BURNING, SAWING, BRAZING, GRINDING OR MACHINING WHEN EXPOSURE EXCEEDS TLV'S.

Protective Gloves:WEAR IMPERVIOUS GLOVES .

Eye Protection:ANSI APPROVED CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:ANSI APPROVED EMERGENCY EYEWASH AND DELUGE SHOWER . OTHER PROTECTIVE EQUIPMENT SHOULD BE UTILIZED AS REQUIRED BY THE WELDING STANDARDS.

Work Hygienic Practices:SUPP SAFETY & HEALTH (CONT): SEEK CONSULTATION FROM APPROPRIATE HEALTH PROFESSIONAL CONCERNING SAFE HANDLING AND EXPOSURE INFORMATION .

Supplemental Safety and Health

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE TO OZONE CAN RESULT IN MUCOUS MEMBRANE IRRITATION, AS WELL AS PULMONARY CHANGES INCLUDING IRRITATION, CONGESTION AND EDEMA. PHYSICAL/CHEMICAL PROPERTIES: MELTING POINT: 44F - 1220F (BASE METAL). LEAD APPEARS ON THE NAVY OCCUPATIONAL CHEMICAL REPRODUCTIVE HAZARDS LIST.(HYGIENE PRAC)

## Chemical Properties

Melt/Freeze Pt:>226.7C, 440.F

M.P/F.P Text:SEE SUP DAT

Spec Gravity:>2

Appearance and Odor:SILVER-METALLIC SOLID, ODORLESS.

## Stability

Stability Indicator/Materials to Avoid:YES

ANHYDROUS BROMINE. ALSO SEE NFPA # 491M.

Stability Condition to Avoid:SEE SPECIAL PRECAUTIONS. SEE FIRE AND EXPLOSION SECTION.

Hazardous Decomposition Products:SEE SPECIAL PRECAUTIONS. SEE FIRE AND EXPLOSION SECTION.

## Disposal

Waste Disposal Methods:ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS.

## Toxicology

Toxicological Information:IRRITATION DATA: SKIN-RBT 10 MG/24H OPEN - JIHTAB 30,63,1948; EYE-RBT 750 UG SEV - AJOPAA 29,1363,1946.

TOXICITY DATA: LD50:(ORAL,RAT) 268 MG/KG; LD50:(SCU-RBT) 1230 MG/KG

- TOXID9 15,19,1995; LC50:(I NHAL,RAT) 1318 PPM/4H - TOXID9

8,249,1988; LD50:(ORAL,MUS) 630 MG/KG - GTPZAB 28(6),55,1984;

LD50:(SKIN,RBT) 5390 MG/KG - AIHAAP 30,470,1969; LD50:(ORAL,QAL)

>316 MG/KG - EESADV 6,149,1982. ONLY SELEC TED RTECS DATA IS

PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFO.

## Other Information

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

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## Ecology

Ecological:DATA NOT YET AVAILABLE.

## Transport

Transport Information:UN #: 2372. PROPER SHIPPING NAME:

1,2-DI-(DIMETHYLAMINO) ETHANE. PG: II. CLASS: 3.

## Regulatory

SARA Title III Information:THIS PRODUCT CONTAINS ONE OR MORE 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 72.

State Regulatory Information: