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INCO ALLOYS INTERNATIONAL, INC. -- MONEL, FERRY AND CUPRO 107 ALLOYS, K-500 3040-01-151-7992

Product ID:MONEL, FERRY AND CUPRO 107 ALLOYS, K-500 MSDS Date:12/01/1990 FSC:3040 NIIN:01-151-7992 MSDS Number: BPMWK === Responsible Party === Company Name: INCO ALLOYS INTERNATIONAL, INC. Address: GUYAN RIVERS ROAD City:HUNTINGTON State:WV ZIP:25720 Country:US Info Phone N um:304-526-5100/800-624-3411 Emergency Phone Num:304-526-5780 CAGE:28553 === Contractor Identification === Company Name: INCO ALLOYS INTERNATIONAL, INC. DIV INTL NICKEL CO Address:3200 RIVERSIDE DR City:HUNTINGTON State:WV ZIP:25705 Country:US Phone:304-526-5100 CAGE:28553 Ingred Name: ALUMINUM (SARA III) CAS:7429-90-5 RTECS #:BD0330000

Fraction by Wt: 3% Other REC Limits:NONE RECOMMENDED OSHA PEL:15MG/M3 DUST/5 FUME

ACGIH TLV

:10MG/M3 DUST; 9293

Ingred Name:COPPER (SARA III) CAS:7440-50-8 RTECS #:GL5325000 Fraction by Wt: 30% Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH TLV:0.2MG/M3 FUME; 9293 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:IRON CAS:65996-67-0 Fraction by Wt: 1% Other REC Limits:NONE RECOMMENDED

Ingred Name:MANGANESE (SARA III) CAS:7439-96-5 RTECS #:OO9275000 Fraction by Wt: 1% Other REC Limits:NONE RECOMMENDED OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: 64% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9293

Ingred Name:TITANIUM, METAL CAS:7440-32-6 RTECS #:XR1700000 Fraction by Wt: 1% Other REC Limits:NONE RECOMMENDED

LD50 LC50 Mixture:TLV 10 MG/M3,METAL DUST/5 MG/M3 FUMES Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:Y ES OSHA:NO

Health Hazards Acute and Chronic:ACUTE- AS SHIPPED, NO KNOWN HEALTH HAZARDS. FUMES/DUSTS CAN IRRITATE EYES, SKIN & RESPIRATORY SYSTEM. CHRONIC- INHALATION MAY CAUSE DROWSINESS, WEAKNESS, PARALYSIS, "METAL FUME FEVER", CHILLS, SWEATIN G, BODY ACHE, VOMITING. CAN CAUSE CONJUNCTIVITIS, DERMATITIS, PULMONARY FIBROSIS & EMPHYSEMA. WILSON'S DISEASE CAN OCCUR

Explanation of Carcinogenicity:CONTAINS NICKEL.

Effects of Overexposure: AS SHIPPED, NO KNOWN HEALTH HAZARDS.

FUMES/DUSTS CAN IRRITATE EYES, SKIN & RESPIRATORY SYSTEM. REPEATED INHALATION MAY CAUSE DROWSINESS, WEAKNESS, PARALYSIS, "METAL FUME FEVER", CHILLS, SWEATING, BODY ACHE, VOMITING. CAN CAUSE CONJUNCTIVITIS, DERMATITIS, PULMONARY FIBROSIS & EMPHYSEMA. WILSON'S DISEASE CAN OCCUR

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS SUCH AS DERMATITIS, RESPIRATORY PROBLEMS, LUNG DISEASE OR ANY CONDITION THAT MAY BE AGGRAVATED BY NUISANCE DUST OR FIBER S.

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN:WASH WITH SOAP & WATER. EYE:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR. PROVIDE OXYGEN/CPR IF NEEDED. ORAL:GET M EDICAL ATTENTION.

Flash Point:NON FLAMMABLE

Extinguishing Media:WATER, (CLASS A, B OR C), FOG OR FOAM. USE WATER SPRAY TO COOL F

IRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:NON-FLAMMABLE. HOWEVER, SPARKS FROM WELDING OR GRINDING IN USER OPERATIONS COULD IGNITE FLAMMABLE OR COMBUSTIBLE LIQUIDS, VAPORS AND SOLIDS.

Spill Release Procedures: VACUUM OR SHOVEL ANY SPILLED MATERIAL INTO A

SUITABLE CONTAINER. ALLOY WASTES ARE NORMALLY COLLECTED TO RECOVER METAL VALUES. Neutralizing Agent:NOT APPLICABLE.

Handling and Storage Precautions:STORAGE- AVOID CREATING DUST. Other Precautions:DO NOT GENERATE DUST. AVOID BREATHING DUST OR FUME. DO NOT GET IN EYE, ON SKIN OR ON CLOTHING. KEEP OUT OF REACH OF CHILDREN.

Respiratory Protectio

n:USE NIOSH APPROVED SUPPLIED AIR RESPIRATORY

PROTECTION OR RESPIRABLE FUME RESPIRATOR WHEN WELDING, BRAZING OR SOLDERING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE B ELOW TLV.

Ventilation:LOCAL/GENERAL TO MAINTAIN PEL/TLV. CHECK LOCAL REGULATIONS FOR EMISSION STANDARDS.

Protective Gloves:LEATHER, COTTON OR RUBBER AS NEEDED

Eye Protection: DUST-RESISTANT SAFETY GOGGLES

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER, WORK CLOTH

ING AND APRON AS REQUIRED. DO NOT WEAR CONTACT LENSES. APPLY SKIN CREAM.

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

MAINTAIN EXPOSURES BELOW THE ACCEPTABLE EXPOSURE LEVELS.

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:>2552F,>140 Spec Gravity:8 - 9 Solubility in Water:INSOLUBLE Appearance and Odor:SILVER-COLORED METAL SHAPED AS PLATE,BAR,WIRE,TU BE,ROD,STRIP ETC.. - ODORLESS

Stability Indicator/Materials to Avoid:YES STRONG MINERAL ACIDS

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:TOXIC FUMES & GASES FROM WELDING, METAL OXIDES, CHROMATES, FLUORIDES, CO, CO2, OZONE & OXIDES OF NITROGEN.

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERA

L REGULATIONS.

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rticular situation.