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

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

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

Num: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

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

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 TL

V: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:

YES 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 FIBE RS.

=======================================	First Aid Measures	=======================================
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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.

	Fire	Fighting Measures	
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Flash Point: NON FLAMMABLE

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

FIRE 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.

============= Accidental Release Measures ==============	=======================================	Accidental	Release	Measures	=======================================
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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 ========================== 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. ====== Exposure Controls/Personal Protection ======== Respiratory Protecti on: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 **CLOT**

HING 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.

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

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, T

=======================================	Stability and Reactivity Data ============
•	IDS
	== Disposal Considerations ==========
Waste Disposal Methods	s:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STA

ΛTΕ AL REGULATIONS.

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UBE,ROD,STRIP ETC.. - ODORLESS