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Product ID: INCONEL ALLOY 718, (SEE SUPPL.) MSDS Date:02/03/1998 FSC:9515 NIIN:01-203-6931 Status Code:A **MSDS Number: CLPDR** === Responsible Party === Company Name: INCO ALLOYS INTERNATIONAL, INC. DIV INTL NICKEL CO Address:3200 RIVERSIDE DR **City:HUNTINGTON** Stat e:WV ZIP:25705 Country:US Info Phone Num:304-526-5100 Emergency Phone Num:304-526-5780 Resp. Party Other MSDS Num.: MSDS F 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:CHROMIUM CAS:7440-47-3 RTECS #:GB4200000 = Wt:18. OSHA PEL:1 MG/M3 (CR) ACGIH TLV:0. 5 MG/M3 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500 = Wt:19. OSHA PEL:10 MG/M3 DUST/FUME ACGIH TLV:5 MG/M3 (FE)

Ingred Name:MOLYBDENUM CAS:7439-98-7 RTECS #:QA4680000 = Wt:3. OSHA PEL:15 MG/M3 (T DUST) ACGIH TLV:10 MG/M (MO)

Ingred Name:NICKEL CAS:7440-02-0 RTECS #:QR5950000 = Wt:54. OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:NIOBIUM CAS:7440-03-1 RTECS #:QT9900000 = Wt:5.

Ingred Name:TITANIUM CAS:7440-32-6 R TECS #:XR1700000 = Wt:1.

Reports of Carcinogenicity:NTP:UNKNOWN IARC:YES

Health Hazards Acute and Chronic:AS SHIPPED THIS ALLOY HAS NO KNOWN TOXICOLOGICAL PROPERTIES OTHER THAN CAUSING ALLERGIC REACTIONS IN INDIVIDUAL SENSITIVE TO THE METALS CONTAINED IN THE ALLOY. USER GENERATED DUSTS AND FUMES MAY ON CO NTACT WITH THE SKIN OR EYES PRODUCE MECHANICAL IRRITATION. CHRONIC EXPOSURES COULD CAUSE DERMATITIS (SKIN) OR CONJUNCTIVITIS (EYES). EXCESSIVE INHALATION OF USER GENERATED FUMES FROM HIGH TEMPERATURE CUTTING OR WELDING OF THESE ALLOYS MAY, DEPENDING ON THE SPECIFIC FEATURES OF PROCESS USED, POSE A LONG TERM HEALTH HAZARD. THE INGREDIENTS OF FUMES AND GASES GENERATED IN USER WELDING, GRINDING, AND HIGH (CONTD. SEE "TOXICOLOGICAL")

Explanation of Carcinogenicity:IARC HAS CONCLUDED THAT WELDING FUMES ARE POSSIBLY CARCINOGENIC TO HUMANS. NTP HAS LISTED NICKEL AS REASO

NABLY ANTICIPATED TO BE A CARCINOGEN.

Effects of Overexposure: AS SHIPPED THESE COMPLEX ALLOYS HAVE NO KNOWN TOXICOLOGICAL PROPERTIES OTHER THAN CAUSING ALLERGIC REACTIONS IN INDIVIDUALS SENSITIVE TO METALS CONTAINED IN THE ALLOYS. USER GENERATED DUSTS AND FUMES. MECHANICAL IRRITATION. DERMITITIS, CONJUNCTIVITIS (EYES), ASTHMATIC SYMPTOMS, ECZEMATOUS ERUPTIONS, RESPIRATORY TRACT IRRITATION, SIDEROSIS, RUST BROWN COLORED SPOTS ON EYES, GOUT-LIKE DISEASE, HIGH BLOOD URIC AC

ID, KIDNEY DAMAGE,

LIVER DAMAGE, SENSITIZATION, ALLERGIC REACTION, LUNG FIBROSIS, CHRONIC BRONCHITIS.

First Aid:EYE: FLUSH PARTICULES FROM EYEBALLS WITH CLEAN WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL HELP. SKIN: WASH SKIN WITH SOAP AND WATER TO REMOVE ANY METALLIC PARTICLES. IF A RASH DEVELOPES, SEEK MEDICAL ATTENTION. INHLATION: REMOVE FROM EXPOSURE. IF SEVERE RESPIRATORY I RRITATION PERSISTS. SEEK MEDICAL

HELP. INGESTION: IF SYMPTOMS OF INGESTION ARISE, SEEK MEDICAL HELP.

Flash Point:NON-FLAMMABLE

Fire Fighting Procedures:NONFLAMMABLE, HOWEVER SPARKS FROM WELDING, GRINDING IN USER OPERATIONS COULD IGNITE FLAMMABLE OR COMBUSTIBLE LIQUIDS, VAPORS, AND SOLIDS.

Spill Release Procedures: VACUUM OR SHOVEL ANY SPILLED MA

TERIAL INTO A SUITABLE CONTAINER. ALLOY WASTES ARE NORMALLY COLLECTED TO RECOVER METAL VALUES.

====== Exposure Controls/Personal Protection ==========

Respiratory Protection: RESPIRATORY PROTECTION IS NECESSARY WHEN EXPOSURE LIMITS OF AIRBORNE CONTAMINANTS ARE EXCEEDED DURING CUTTING, GRINDING OR WELDING ON THESE ALLOYS. USE AIR SUPPLIED RESPIRATOR IN CONFINED SPACES. USE ONLY NIOSH APPROVED RESPIRATORS IN ACCORDANCE WITH 29 CFR 1910.134.

Ventilation:USE LOCA

L EXHAUST VENTILATION WHEN CUTTING, GRINDING,

WELDING. MAINTAIN EXPOSURE BELOW ACCEPTABLE EXPOSURE LIMITS. CONFINED SPACES REQUIRE SPECIAL ATTENTION .

Protective Gloves:WEAR GLOVES

Eye Protection:EYE PROTECTION IS RECOMMENDED WHEN CUTTING, GRINDING, WELDING..

Other Protective Equipment:WEAR FACE PROTECTION AND FLAME RETARDANT CLOTHING.

Work Hygienic Practices: DO NOT EXPOSE SKIN OR EYES TO THE HEAT AND RADIATION FROM WELDING OPERATIONS.

Supplemental Safety and Health

THIS MSDS

COVERS BOTH ALLOY PLATES, SHEETS, STRIPS, ETC. AND WELDING RODS. THIS PRODUCT UNDER THIS NSN IS FOR ALLOY STRIPS 10 FT LONG BY 3 INCH WIDE BY 0.071 INCHES THICK. THIS ITEM IS NOT HAZARDOUS U NLESS INVOLVED WITH WELDING, GRINDING, AND HIGH TEMPERATURE CUTTING OPERATIONS.

HCC:N1

Net Prop Wt for Ammo:N//P Melt/Freeze Pt:>1400.C, ######F Spec Gravity:8-9MG/CC Appearance and Odor:SOLID, SILVER-COLORED METAL STRIP 10 FT LONG BY 3 IN. WIDE BY 0.071 IN. THICK.

Stability Indicator/Materials to Avoid:YES Stability Condition to Avoid:THIS MATERIAL IS NON-REACTIVE (STABLE) AS SHIPPED.

Toxicological Information:(CONTD. FROM HEALTH HAZARD") TEMPERATURE CUTTING OPERATIONS WILL DEPEND ON THE BASE METAL, ELECTRODE, FLUX, AND SPECIFIC PROCESS BEING USED. INGREDIEN TS MAY INCLUDE METALS,

METAL OXIDES, CHROMATES, FL UORIDES, CARBON MONOXIDE, OZONE, AND OXIDES OF NITROGEN. PHOSGENE CAN BE PRODUCED IF CHLORINATED SOLVENT VAPORS ARE PRESENT IN USER OPERATIONS. FOLLOWING INFORMATION IS PRIMARILY DIRECTED TO THE INGRE DIENTS OF THE COMPLEX ALLOYS LISTED. ALTHOUGH IT IS THE USER'S RESPONSIBILITY TO ASSESS END PRODUCTS, INTERMEDIATES OR FUGITIVE EMISSIONS ARISING OUT OF THE USE OFTHESE ALLOYS. INFORMATION FOR FUMES F OLLOW. (CONTD. SEE "ECOLOGICAL")

Ecological: (CONTD FROM "TOXICOLOGICAL") CHROMIUM METAL IS RELATIVELY NONTOXIC. CHROMIUM METAL AND INSOLUBLE SALTS ARE SAID TO BE INVOLVED IN FIBROSIS OF THE LUNGS. WHEN HEATED TO A HIGH TEMPERATURE, FUMES PRODUCE D MAY BE DAMAGING TO THE LUNGS IF INHALED. FUMES FROM WELDING CHROMIUM-CONTAINING STAINLESS STEEL OR CERTAIN CHROMIUM-CONTAINING RODS CAN TRIGGER ECZEMATOUS ERUPTURES ON THE P

ALMS OF THE HANDS OF CHRO MIUM SENSITIZED INDIVIDULALS. INHALATION OF THE EXCESSIVE OXIDE FUMES OR DUSTS CAN LEAD TO IRRITATION OF THE RESPIRATORY TRACT. PROLONGED INHALATION OF IRON OXIDE FOR PERIODS OF 6 TO 10 YEARS IS KNOWN TO CAUSE (CONTD. SEE "TRANSPORT")

Waste Disposal Methods: IF DISPOSAL IS NECESSARY, DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

====== MSDS Tra

Transport Information:(CONTD. FROM "ECOLOGICAL") SIDEROSIS WHICH APPEARS TO BE A BENIGN PNEUMOCONIOSIS. PROLONGED EYE CONTACT WITH THE METAL DUST COULD CAUSE RUST BROWN COLORED SPOTS FORMING AROUND PARTICLES AND IF LEFT F OR SEVERAL YEARS, PERMANENT DAMAGE COULD RESULT. MOLYBDENUM: THIS INGREDIENT AND ITS INSOLUBLE COMPOUNDS ARE REPORTED TO HAVE A LOW TOXICITY. HIGH DIETARY INTAKE MAY PRODUCE GOUT-LIKE DISEASE AND HIGH BLOOD URIC ACID. INHALATION OF FUMES HAS CAUSED KIDNEY DAMAGE, RESPIRATORY IRRITATION, AND LIVER DAMAGE IN ANIMALS. SKIN AN EYE CONTACT MAY CAUSE IRRITATION. NICKEL: A KNOWN SENSITIZER AND MAY PRODUC E ALLERGIC (CONTD. SEE "OTHER INFO.")

SARA Title III Information: SECTION 313 SUPPLIER NOTIFICATION: INDIVIDUAL ALLOYS MAY CONTAIN THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF
THE EMERGENCY PLANNING AND COMMUNITY RIGHT -TO - KNOW ACT OF 1986: CHROMIUM, 18 WT %, CAS # 7440-47-3 AND NICKEL, 54 WT %. CAS # 7440-02-0.

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