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IRELAND ALLOYS, INC -- COBALT BASE ALLOY, STELLITE 31-X45 -- 3439-00-357-7860

Product ID:COBALT BASE ALLOY, STELLITE 31-X45 MSDS Date:11/21/1985 FSC:3439 NIIN:00-357-7860 Status Code:A MSDS Number: CLNCF === Responsible Party === Company Name: IRELAND ALLOYS, INC Address:UNK Box:41000 City:HOUSTON State:TX ZIP:77240-1000 Country:US Info Phone Num:713-937-1111 Eme rgency Phone Num:713-937-1111 CAGE:UO495 === Contractor Identification === Company Name: IRELAND ALLOYS, INC Address:UNK Box:41000 City:HOUSTON State:TX ZIP:77240-1000 Country:US Phone:713-937-1111 CAGE:UO495

Ingred Name:CHROMIUM CAS:7440-47-3 RTECS #:GB4200000 = Wt:2.5 OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:COBALT CAS:7440-48-4 RTECS #:GF8750000 = Wt:56. OSHA PEL:0.1 MG/M3 ACGIH TL V:0.05 MG/M3

Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500 = Wt:2. OSHA PEL:NONE ACGIH TLV:NONE

Ingred Name:NICKEL CAS:7440-02-0 RTECS #:QR5950000 = Wt:10. OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:TUNGSTEN CAS:7440-33-7 RTECS #:YO7175000 = Wt:7. OSHA PEL:NONE ACGIH TLV:5 MG/M3 ACGIH STEL:10 MG/M3

Ingred Name:CARBON CAS:7440-44-0 RTECS #:FF5250000 = Wt:.5 OSHA PEL:5000 PPM/DIOXIDE ACGIH TLV:5000 PPM/DIOXIDE

====== Hazards Ident

Reports of Carcinogenicity:NTP:UNKNOWN IARC:YES Health Hazards Acute and Chronic:SHORT TERM: METALLIC TASTE; NAUSEA; TIGHTNESS OF CHEST; FEVER; IRRITATION OF EYES, NOSE, THROAT AND SKIN; LOSS OF CONSCIOUSNESS/DEATH DUE TO WELDING/REMELT GASES OR LACK OF OXYGEN. LONG TERM: ADVERSE EFFECTS MAY RESULT FROM LONG TIME EXPOSURE TO FUMES, GASES, DUSTS. THESE EFFECTS MAY INCLUDE SKIN SENSITIZATION, NEUROLOGICAL DAMAGE, RESPIRATORY DISEASE SUCH AS BRONCHIAL ASTHMA, LUNG FIBROSIS OR PNE UMOCONIOSIS. Explanation of Carcinogenicity:NICKEL AND CADMIUM HAVE BEEN DETERMINED BY THE IARC TO BE BE SUSPECTED CARCINOGENS.

Effects of Overexposure:SHORT TERM: METALLIC TASTE; NAUSEA; TIGHTNESS OF CHEST; FEVER; IRRITATION OF EYES, NOSE, THROAT AND SKIN; LOSS OF CONSCIOUSNESS/DEATH DUE TO WELDING/REMELT GASES OR LACK OF OXYGEN. LONG TERM: ADVERSE EFFECTS MAY RESULT FROM LONG TIME EXPOSURE TO FUMES, GASES, DUSTS. THESE EFFECTS MAY I

NCLUDE SKIN SENSITIZATION,

NEUROLOGICAL DAMAGE, RESPIRATORY DISEASE SUCH AS BRONCHIAL ASTHMA, LUNG FIBROSIS OR PNE UMOCONIOSIS.

Medical Cond Aggravated by Exposure:PRE-EXISTING RESPIRATORY OR ALLERGIC CONDITIONS MAY OCCUR IN SOME WORKERS.

First Aid:REMOVE VICTIM FROM EXPOSURE AND OBTAIN PROMPT MEDICAL ATTENTION. IF VICTIM IS UNCONSCIOUS, ADMINISTER OXYGEN. IF NOT BREATHING, RESUSCITATE IMMEDIATELY.

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Fire Fighting Procedures:SOLID FORMS-NON FLAMMABLE. Unusual Fire/Explosion Hazard:SHAVINGS OR TURNINGS-IN EXTREME CASES, THE CUTTING OIL CAN IGNITE, BUT THE METAL ITSELF WILL NOT.

Spill Release Procedures: RESIDUE FROM CUTTING OR GRINDING SHOULD BE SWEPT OR VACUUMED AND PLACED IN SUITABLE CONTAINERS FOR DISPOSAL BY LOCAL, STATE OR FEDERAL WASTE DISPOSAL REGULATIONS.

Other Precautions:PEL/TLV EXPOSURES SHOULD BE KEPT BELOW RECOMMENDED RECOMMENDATIONS BY OSHA AND ASGIH TO ENSURE PROPER HEALTH PROTECTION OF WORKER.

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

Respiratory Protection:WHEN EXPOSURE LIMITS ARE EXCEEDED, USE PROPER APPROVED VENTILATION. Ventilation:USE LOCAL EXHAUST WHEN CUTTING, GRINDING, WELDING OR REMELTING. Protective Glo

ves:SHOULD BE USED WHEN CUTTING, GRINDING, WELDING. Eye Protection:SHOULD BE USED WHEN CUTTING, GRINDING, WELDING. Other Protective Equipment:SHOULD BE USED WHEN CUTTING, GRINDING, WELDING.
Work Hygienic Practices: SHAVINGS OR TURNINGS CONTAINING CUTTING OILS SHOULD NOT BE ALLOWED TO CONTACT THE SKIN FOR PROLONGED PERIODS. INADVERTENT SHORT TERM CONTACT IS HARMLESS.
Supplemental Safety and Health PHYSICAL DATA-COBALT BASE ALLOY PRODUCTS ARE SHIPPED AS SOLID FORMS, OR AS METAL SHAV
INGS OR BOINGS. THE SHAVING OR BORINGS WILL EITHER BE DRY & COMPLETELY FREE OF CUTTING OIL, OR WILL CONTAINA SMALL % OF WATER SOLUBLE CUTTING OIL.
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HCC:N1 Appearance and Odor:SOLID FORMS, OR AS METAL SHAVINGS OR BORINGS
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Stability Indicator/Materials to Avoid:YES COBALT IS INCOMPATIBLE WITH ACETYLENE, HYDRAZINE, NITRATES AND OXIDANTS. Stability C
ondition to Avoid:METAL PRODUCTS THEMSELVES ARE NOT REACTIVE, HOWEVER, CAUTION MUST BE TAKEN WHEN WELDING AND REMELTING DUE TO FUMES AND GASES.
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Toxicological Information:PHYSIOLOGICAL EFFECTS-COBALT CAUSES A DERMATITIS OF THE ALLERGIC SENSITIVITY TYPE AT POINTS OF FRICTION. COBALT TOXICITY ALSO RESULTS IN A PROGRESSIVE, DIFFUSE, INTERSTITIAL PNEUMONIA WITH A NON-PRODU CTIVE COUGH, DYSPNEA ON EXERTION, IN
TERSTITIAL FIBROSIS & CELL DAMAGE. OTHER WORKERS HAVE EXPERIENCED A SENSITIZED RESPIRATORY DISEASE CHARACTERIZED BY COUGH, WHEEZING AND SHORTNESS OF BREATH WHERE UP ON REMOVAL FROM ENVIRONMENT, THE SYMPTOMS SUBSIDE.
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Waste Disposal Methods:RESIDUE FROM CUTTING OR GRINDING SHOULD BE SWEPT OR VACUUMED AND PLACED IN SUITABLE CONTAINERS FOR DISPOSAL BY LOCAL, STATE OR FEDERAL WASTE DISPOSAL REGULATIONS.

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