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IRELAND ALLOYS INC -- STELLITE 30, COBALT BASE ALLOY -- 3439-01-357-7860

Product ID:STELLITE 30, COBALT BASE ALLOY MSDS Date:11/21/1985 FSC:3439 NIIN:01-357-7860 Status Code:A MSDS Number: CLPPD === Responsible Party === Company Name: IRELAND ALLOYS INC Box:41000 **City:HOUSTON** State:TX ZIP:77240-1000 Country:US Info Phone Num:713-937-1111 Emergency Phone Num:713-93 7-1111 CAGE:1DWT5 === Contractor Identification === Company Name: IRELAND ALLOYS INC Box:41000 **City:HOUSTON** State:TX ZIP:77240-1000 Country:US Phone:713-937-1111 CAGE:1DWT5 Ingred Name:CHROMIUM CAS:7440-47-3 RTECS #:GB4200000 = Wt:26. 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:50. OSHA PEL:0.1 MG/M3 ACGIH TLV:0.05 MG/M3 Ingred Name:IRON CAS:1

309-37-1 RTECS #:NO7400000 = Wt:2. OSHA PEL:NONE ACGIH TLV:NONE

Ingred Name:NICKEL CAS:7440-02-0 RTECS #:QR5950000 = Wt:15. OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:CARBON CAS:7440-44-0 RTECS #:FF5250000 = Wt:.45

Ingred Name:MOLYBDENUM CAS:7439-98-7 RTECS #:QA4680000 = Wt:6. OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Reports of Carcinogenicity:NTP:UNKNOWN IARC:YES Health Hazards Ac

ute and Chronic:SHORT TERM EXPOSURE-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 E XPOSURE- ADVERSE EFFECTS MAY RESULT FROM LONG TIME EXPOSURE TO FUMES, GASES OR DUSTS. THESE EFFECTS MAY INCLUDE SKI SENSITIZATION, NEUROLOGICAL DAMAGE, AND RESPIRATORY DISEASE SUCH AS BRONCHIAL ASTHMA, LUNG FIBROSIS OR PNEUMOCONIOSIS. Explanation of Carcinog

enicity:NICKEL AND CHROMIUM HAVE BEEN DETERMINED BY THE IARC TO BE SUSPECTED CARCINOGENS.

Effects of Overexposure:SHORT TERM EXPOSURE-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 E XPOSURE- ADVERSE EFFECTS MAY RESULT FROM LONG TIME EXPOSURE TO FUMES, GASES OR DUSTS. THESE EFFECTS MAY INCLUDE SKI SENSITIZATION, NEUROLOGICAL DAMAGE, AND RESPI

DISEASE SUCH AS BRONCHIAL ASTHMA, LUNG FIBROSIS OR PNEUMOCONIOSIS. Medical Cond Aggravated by Exposure: AGGRAVATION OF 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 UNXONSCIOUS, ADMINISTER OVYGEN, IF NOT BREATHING, RESUSCIATATE IMMEDIATELY.

======================= Fire Fighting Measures

Flash Point:NON-FLAMMABLE Fire Fighting Procedures:SOLID FORMS-NON-FLAMMABLE. Unusual Fire/Explosion Hazard:SHAVINGS OR BORINGS-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.

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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 VENTILATOR.

Ventilation:USE LOCAL EXHAUST WHDN CUTTING, GRINDING, WELDING, OR REMELTING.

Protective Gloves:SHOULD BE US

ED WHEN CUTTING, GRINDING OR WELDING.

Eye Protection: SHOULD BE USED WHEN CUTTING, GRINDING OR 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 SHAVINGS OR BOINGS. THE SHAVING OR BORINGS WILL EITHER BE DRY & COMPLETELY FREE OF CUTTING OIL, OR WILL CONTAINA SMALL % OF WATER SOLUBLE CUTTING OIL. (WHICH IS USED AS A CUTTING TOOL LUBRICANT WHEN SOLID FORMS ARE MACHINED TO FINAL SIZE).

HCC:N1 Melt/Freeze Pt:=1495.C, ######F Appearance and Odor:SILVER-GRAY METAL.

COBALT IS INCOMPATIBLE WITH ACETYLENE, HYDRAZINE, NITRATES AND OXIDANTS.

Hazardous Decomposition Products:METAL PRODUCT

S THESELVES ARE NOT

REACTIVE, HOWEVER, CAUTION MUST BE TAKEN WHEN WELDING AND REMELTING DUE TO FUMES AND GASES.

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-PRO DUCTIVE COUGH, DYSPNEA ON EXERTION, INTERSTITIAL FIBROSIS & CELL DAM AGE. OTHER WORKERS HAVE EXPERIENCED A SENSITIZED RESPIRATORY DISEASE CHARACTERIZED BY COUGH, WHEEZING AND SHORTNESS OF BREATH WHERE UPON REMOVAL FROM ENVIRONMENT, THE SYMPTOMS SUBSIDE.

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