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

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

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

**Emer** 

gency 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

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

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 TLV** 

## :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

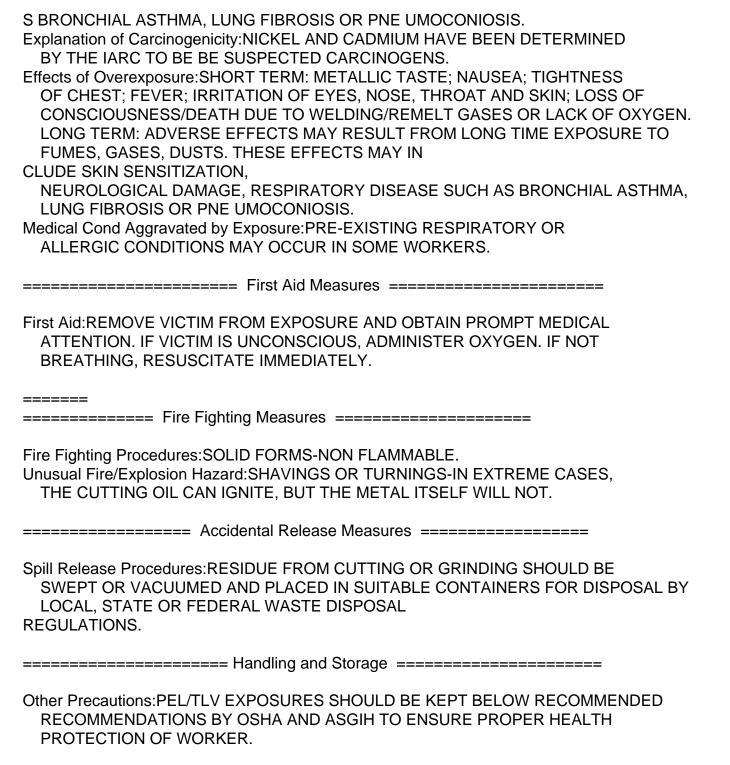
Ingred Name:CARBON CAS:7440-44-0 RTECS #:FF5250000

= Wt:.5

OSHA PEL:5000 PPM/DIOXIDE ACGIH TLV:5000 PPM/DIOXIDE

====== Hazards Identi fication ===========

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
A



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

APPROVED VENTILATION.

REMELTING. Protective Glov

Respiratory Protection: WHEN EXPOSURE LIMITS ARE EXCEEDED, USE PROPER

Ventilation: USE LOCAL EXHAUST WHEN CUTTING, GRINDING, WELDING OR

es: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 SHAVI
NGS OR BOINGS. THE SHAVING OR BORINGS WILL EITHER BE
DRY & COMPLETELY FREE OF CUTTING OIL, OR WILL CONTAINA SMALL % OF
WATER SOLUBLE CUTTING OIL.

Stability Co

ndition to Avoid:METAL PRODUCTS THEMSELVES ARE NOT REACTIVE, HOWEVER, CAUTION MUST BE TAKEN WHEN WELDING AND REMELTING DUE TO FUMES AND GASES.

======== Toxicological Information ==========

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. INT

ERSTITIAL 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.

====== Disposal Considerations ===========

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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======= Other Information ===============

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