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INCO ALLOYS INTERNATIONAL INC -- NI-ROD WELDING ELECTRODES AND CORED WIRE 3439-01-135-3913

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

Product ID:NI-ROD WELDING ELECTRODES AND CORED WIRE

MSDS Date:12/01/1990

FSC:3439

NIIN:01-135-3913

MSDS Number: BXBQN === Responsible Party ===

Company Name: INCO ALLOYS INTERNATIONAL INC

Address:1401 BURRIS RD

City:NEWTON

State:NC ZIP:28658 Country:US

Info Phone Num:800

-624-3411

Emergency Phone Num:304-526-5780

CAGE:9Z762

=== Contractor Identification ===

Company Name: INCO ALLOYS INTERNATIONAL INC

Address:1401 BURRIS RD

Box:City:NEWTON

State:NC

ZIP:28658-1754

Country:US

Phone:800-624-3411

CAGE:9Z762

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

Ingred Name:BARIUM FLUORIDE; (BAF2). LD50:(ORAL,RAT)250 MG/KG.

CAS:7787-32-8

RTECS #:CQ9100000 Fraction by Wt: 1-5%

Other REC Limits:2.5 MG/M3 (F) OSHA PEL:0.5 MG/M3 (BA) ACGIH TLV:0.5 MG/M3 (BA)

Ingred Name:CALCIUM CARBONATE; (CACO3). LD50:(ORAL,RAT)6,450 MG/KG.

CAS:1317-65-3

RTECS #:EV9580000 Fraction by Wt: 1-5%

Other REC Limits:NONE SPECIFIED OSHA PEL:15MG/M3 TDUST;5 RESP

ACGIH TLV:10MG/M3 TDUST

Ingred Name: CARBON (MFR REC LIMITS AS CARBON BLACK)

CAS:7440-44-0

RTECS #:FF5250100 Fraction by Wt: 1-5%

Other REC Limits:3.5 MG/M3 (MFR) OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:2 MG/M3 TDUST; 9293

Ingred Name: COPPER; (CU) (SARA III)

CAS:7440-50-8

RTECS #:GL5325000 Fraction by Wt: 1-5%

Other R

EC Limits:NONE SPECIFIED

OSHA PEL:0.1MG/M3 FUME;1 DUST ACGIH TLV:0.2MG/M3 FUME;1 DUST

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:IRON; (FE)

CAS:7439-89-6

RTECS #:NO4565500 Fraction by Wt: 1-5%

Other REC Limits: NONE SPECIFIED

OSHA PEL:10 MG/M3 TDUST

ACGIH TLV:5 MG/M3

Ingred Name:MANGANESE; (MN) (SARA III). LD50:(ORAL,RAT)9,000 MG/KG.

CAS:7439-96-5

RTECS #:OO9275000 Fraction by Wt: 1-5%

Other REC Limits: 1 MG/M3; 3 STEL FUME

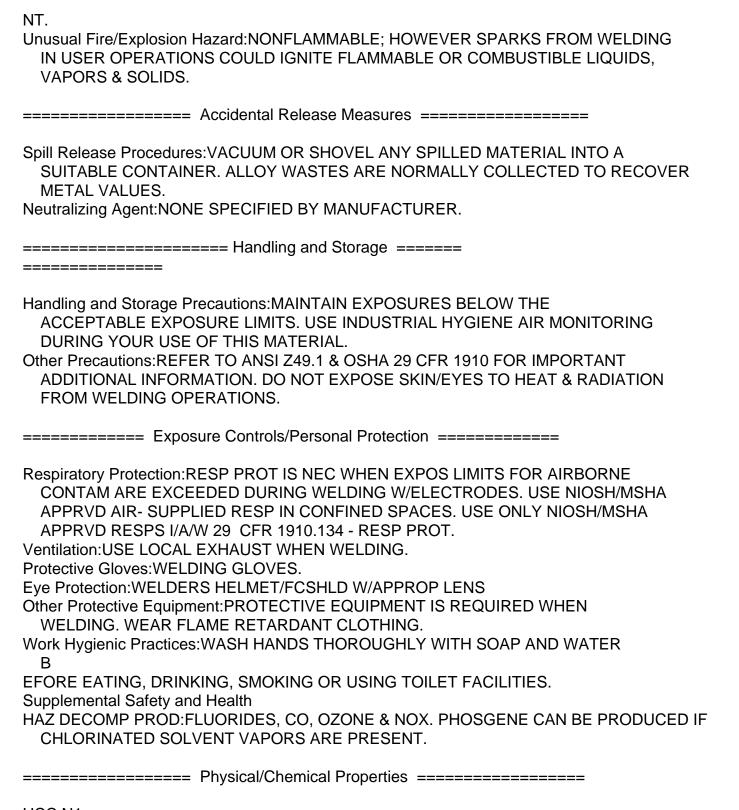
OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred

Name:NICKEL; (NI) (SARA III). LD50:(ORAL,RAT)>9,000 MG/KG. CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: 60-100% Other REC Limits: NONE SPECIFIED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 Ingred Name: STRONTIUM CARBONATE; (SRCO3) CAS:1633-05-2 Fraction by Wt: 7-13% Other REC Limits: NONE SPECIFIED =========== Hazards Identification ========================== LD50 LC50 Mixture: SEE INGREDIENTS. Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic: AS SHIPPED, THESE ELECTRODES HAVE NO KNOWN TOXICOLOGICAL PROPERTIES OTHER THAN CAUSING ALLERGIC REACTIONS IN INDIVIDUALS SENSITIVE TO METALS. USER GENERATED DUSTS AND FUMES MAY ON CONTACT WITH THE SKI N OR EYES PRODUCE MECHANICAL IRRITATION. CHRONIC EXPOSURE MAY CAUSE DERMATIITIS OR CONJUNCTIVITIS. Explanation of Carcinogenicity: NICKEL: IARC GRP 1, NTP GRP 2. Effects of Overexposure: SKIN IRRITATION, EYE IRRITATION, DERMATITIS, CO NJUNCTIVITIS. EXPOSURE TO FUMES GENERATED FROM THE WELDING PROCESS MAY POSE A LONG TERM HEALTH HAZARD. Medical Cond Aggravated by Exposure: ALLERGIC REACTIONS IN INDIVIDUALS SENSITIVE TO METAL(S) CONTAINED IN THESE WELDING PRODUCTS. First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSIS T. GET MEDICAL ATTENTION. INH ALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: IF SYMPTOMS OF INGESTION ARISE, GET MEDICAL ATTENTION. Flash Point: NON-FLAMMABLE Lower Limits: NOT GIVEN Upper Limits:NOT GIVEN Extinguishing Media: NONFLAMMABLE. USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures: WEAR NIOSH/MSHA APPROVED SCBA & FULL

PROTECTIVE EQUIPME



HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:>1832F,>100

Vapor Pres:NOT GIVEN Vapor Density:NOT GIVEN Spec Gravity:4-6 G/CC

Evaporation Rate & Dr. Reference: NOT GIVEN

Solubility in Water: NEGLIGIBLE

App

earance and Odor:ODORLESS SOLID. METALLIC SILVER COLORED WIRE W/FLUX COATING OR FLUX CORE.

======== Stability and Reactivity Data =========

Stability Indicator/Materials to Avoid:YES
NONE SPECIFIED BY MANUFACTURER.
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:WELDING FUMES & GASES DEPEND ON BASE METAL, PROCESS, ELECTRODE & FLUX & MAY INCL METAL, METAL OXIDES, CHROMATES, (SUPDAT

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derations	==========	======	•

Waste Disposal Methods:ALLOY WASTES ARE NORMALLY COLLECTED TO RECOVER METAL VALUES. HOWEVER, IF DISPOSAL IS NECESSARY, DISPOSE I/A/W FEDERAL, STATE OR LOCAL REGULATIONS.

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