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INCO ALLOYS INTERNATIONAL INC -- MONEL*WELDING ELECTRODE**190 & 190N 3439-00-559-3261

Product ID:MONEL*WELDING ELECTRODE**190 & 190N

MSDS Date:11/01/1989

FSC:3439

NIIN:00-559-3261

MSDS Number: BJYZF === Responsible Party ===

Company Name: INCO ALLOYS INTERNATIONAL INC

Address:1401 BURRIS RD

City:NEWTON

State:NC

ZIP:28658-1754

Country:US

Info Phone Num:704-465-0

352

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 CARBONATE

CAS:513-77-9

RTECS #:CQ8600000 Fraction by Wt: 1-5%

Other REC Limits: NONE SPECIFIED

Ingred Name: CALCIUM CARBONATE (MARBLE) (LIMESTONE)

CAS:1317-65-3

RTECS #:EV9580000

Fra

ction by Wt: 1-5%

Other REC Limits: NONE SPECIFIED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name: CALCIUM FLUORIDE

CAS:7789-75-5

RTECS #:EW1760000 Fraction by Wt: 1-5%

Other REC Limits: NONE SPECIFIED

Ingred Name: COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000 Fraction by Wt: 15-40%

Other REC Limits:NONE SPECIFIED OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH TLV:0.2MG/M3 FUME; 9192

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

Ingred Name: MANGANESE (SARA III)

CAS:7439-96-5 RTECS #:OO 9275000

Fraction by Wt: 1-5%

Other REC Limits:NONE SPECIFIED OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name: SODIUM FLUOALUMINATE

CAS:15096-52-3 RTECS #:WA9625000 Fraction by Wt: 5-10%

Other REC Limits: NONE SPECIFIED

OSHA PEL: 2.5 MG/M3

Ingred Name: SODIUM SILICATE

CAS:1344-09-8 Fraction by Wt: 1-5%

Other REC Limits: NONE SPECIFIED

Ingred Name: NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000 Fraction by Wt: 40-70%

Other REC Limits: NONE SPECIFIED

OSHA PEL:1 MG/M3 ACGIH TLV:1 M G/M3; 9192

Ingred Name: SILICA, CRYSTALLINE - FUSED

CAS:60676-86-0 RTECS #:VV7328000 Fraction by Wt: 1-5%

Other REC Limits: NONE SPECIFIED

OSHA PEL:SEE TABLE Z3

ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:TITANIUM, METAL

CAS:7440-32-6

RTECS #:XR1700000 Fraction by Wt: 1-5%

Other REC Limits: NONE SPECIFIED

Ingred Name:TITANIUM DIOXIDE

CAS:13463-67-7 RTECS #:XR2275000 Fraction by Wt: 1-5%

Other REC Limits: NONE SPECIFIED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

Hazards Identification ==========

LD50 LC50 Mixture: UNCLASSIFIED WELDING FUMES=5MG/M3 PEL

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Health Hazards Acute and Chronic:BRONCHIAL IRRITATION, BARITOSIS,

RESPIRATORY TRACT IRRITATION, METAL FUME FEVER, GASTROINTESTINAL

UPSET, PUS FORMATION IN THE CONJUCTIVA, CORNEA OR SCLERA;

NEUROLOGICAL PROBLEMS; ABNORMAL KIDNEY FUNCT ION; LUNG FIBROSIS AND

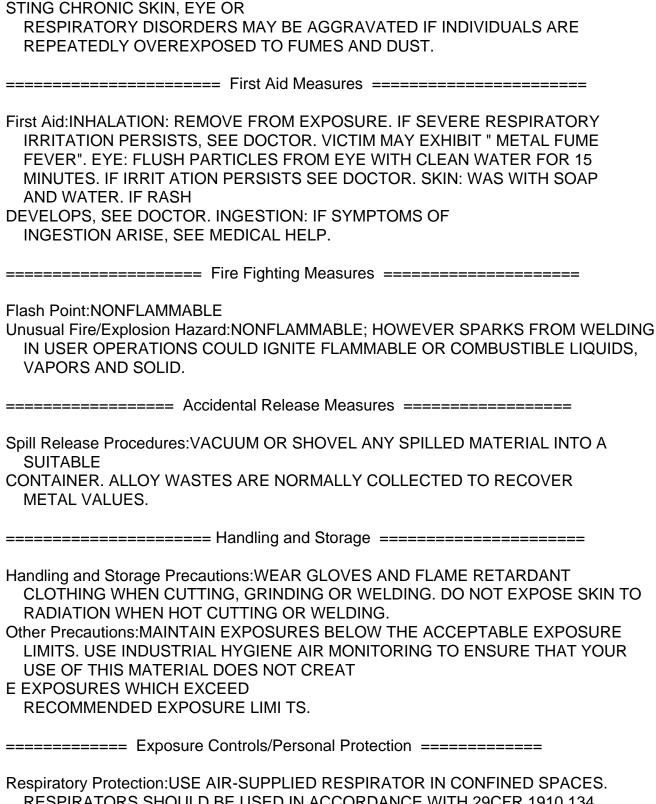
CHRONIC BRO

NCHITIS.

Explanation of Carcinogenicity:NICKEL & CRYSTALLINE SILICA HAVE BEEN IDENTIFIED BY IARC AND/OR NTP AS POTENTIAL CANCER CAUSING AGENTS.

Effects of Overexposure:EYE IRRITATION, REDNESS, PAIN & CONJUNCTIVITIS; NAUSEA, VOMITING & WEAKNESS; EXCESSIVE SALIVATION, COLIC, VIOLENT DIARRHEA, CONVULSIVE TREMORS; INTESTINAL BLOCKAGE; CHILLS, FEVER & SWEATING; APATHY, D ROWSINESS, SPASTIC GAIT & PARALYSIS; LOSS OF CONSCIOUSNESS & DEATH.

Medical Cond Aggravated by Exposure:PRE-EXI



Respiratory Protection:USE AIR-SUPPLIED RESPIRATOR IN CONFINED SPACES.
RESPIRATORS SHOULD BE USED IN ACCORDANCE WITH 29CFR 1910.134.
Ventilation:USE LOCAL AND GENERAL VENTILATION TO KEEP AIRBORNE
CONCENTRATIONS OF DUST OR FUMES BELOW THE TLV DURING USE.
Protective Gloves:WELDERS LEATHER GLOVES
Eye Protection:OSHA APPROVED GOGGLES/FACE SHIELD W/LENS
Other Protec

tive Equipment:WEAR FLAME RETARDANT CLOTHING. DO NOT EXPOSE SKIN OR EYES TO HEAT & RADIATION.

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR SMOKING. LAUNDER CONTAMINATIED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

WELDING AND HOT CUTTING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY ARE DEPENDENT ON THE METAL BEING WELDED, THE PROCEDURES, PROCESSES AND THE TYPE OF WIRE OR ELECTRODES USED.

=======	=======	Physical/Chemical
Properties	========	=======

HCC:N1

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

Spec Gravity:4-6

Appearance and Odor:WELDING ELECTRODE IS METALLIC SILVER COLORED WIRE WITH A FLUX COATING/FLUX CORE

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

Stability Indicator/Materials to Avoid:YES

Hazardous Decomposition Products:WELDING AND CUTTING OPERATION MAY INCLUDE OXIDES OF THE METALS, CHROMATES, FLUORIDES, CARBON MONOXIDE, OZONE, TOXIC GAS.

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al Considerations	==============

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

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