

INCO ALLOYS INTERNATIONAL -- WELDING ELECTRODE 182T -- 3439-00-461-1324

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

Product ID:WELDING ELECTRODE 182T

MSDS Date:11/01/1989

FSC:3439

NIIN:00-461-1324

MSDS Number: BJRNQ

=== Responsible Party ===

Company Name:INCO ALLOYS INTERNATIONAL

Address:1401 BURRIS ROAD

City:NEWTON

State:NC

ZIP:28658-1754

Country:US

Info Phone Num:704-465-0352

Emergency Phone Num:304-5

26-5780

CAGE:28553

=== Contractor Identification ===

Company Name:INCO ALLOYS INTERNATIONAL, INC. DIV INTL NICKEL CO

Address:3200 RIVERSIDE DR

City:HUNTINGTON

State:WV

ZIP:25705

Country:US

Phone:304-526-5100

CAGE:28553

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

Ingred Name:THE FOLLOWING INGREDIENTS ARE IN THE "AS SHIPPED" PRODUCT.

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE)

CAS:1317-65-3

RTECS #:EV9580000

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name:CHROMIUM (SARA III)
CAS:7440-47-3
RTECS #:GB4200000
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
OSHA PEL:10MG/M3(Fe*2O*3)DUST
ACGIH TLV:5 MG/M3(Fe*2O*3)FUME

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Other REC Limits:STEL 3 MG/M3 FUME
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:MANGANESE OXIDE
CAS:1317-35-7
RTECS #:OP0895000
Other REC Limits:STEL 3 MG/M3
FUME
OSHA PEL:(C),5 MG/M3(MN)
ACGIH TLV:5 MG MN/M3; 9293

Ingred Name:MOLYBDENUM
CAS:7439-98-7
RTECS #:QA4680000
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3; 9293

Ingred Name:SODIUM FLUOALUMINATE, LD50:(ORAL)200 MG/KG(RAT)
CAS:15096-52-3
RTECS #:WA9625000
OSHA PEL:2.5 MG/M3 (F)
ACGIH TLV:2 MG/M3 (AL)

Ingred Name:SODIUM SILICATE, LD50:(ORAL)1153 MG/KG(RAT)
CAS:1344-09-8

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192

Ingred Name:NIOBIUM,

TLV/PEL AS GENERAL WELDING FUME.

CAS:7440-03-1

OSHA PEL:5 MG/M3

ACGIH TLV:5 MG/M3

Ingred Name:TITANIUM, METAL. TLV/PEL AS GENERAL WELDING FUME.

CAS:7440-32-6

RTECS #:XR1700000

OSHA PEL:5 MG/M3

ACGIH TLV:5 MG/M3

Ingred Name:TITANIUM DIOXIDE

CAS:13463-67-7

RTECS #:XR2275000

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

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

LD50 LC50 Mixture:SEE INGREDIENTS

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

Reports o

f Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:INHAL: CHRONIC EXPOSURE TO WELDING

FUMES CAN RESULT IN A NUMBER OF MALADIES RANGING FROM IRRITATION TO FIBROTIC LUNG DISEASE. CERTAIN COMPOUNDS CAN AFFECT THE CNS, SKELETAL SYSTEM, LIVER, AND KIDNEYS .

Explanation of Carcinogenicity:CHROMIUM: CLASS 1 (IARC, NTP); NICKEL:

CLASS 1 (IARC), CLASS 2 (NTP)

Effects of Overexposure:EYES: MECHANICAL IRRITATION, CONJUNCTIVITIS.

SKIN: IRRITATION LEADING TO

DERMATITIS. INHAL: SEE HEALTH HAZARDS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

===== First Aid Measures =====

First Aid:EYES: FLUSH PARTICLES FROM EYEBALLS WITH CLEAN WATER FOR AT LEAST 15 MINUTES. IF IRRIT PERSISTS, GET MD. SKIN: WASH WITH SOAP & WATER TO REMOVE ANY METALLIC PARTICLES. IF A RASH DEVELOPS, GET MD. INHA L: REMOVE FROM EXPOS. IF SEVERE RESP IRRIT PERSISTS, GET MD. EXCESS INHAL OF SOME METAL FUMES

CAN PRODUCE AN ACUTE REACTION (METAL FUME FEVER) WITH SYMPTOMS OF CHILLS & FEVER SIMILAR TO (SEE SUPP DATA)

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

Extinguishing Media:USE MEDIA SUITABLE FOR SURROUNDING FIRE .
Fire Fighting Procedures:NONFLAMMABLE; HOWEVER SPARKS FROM WELDING IN USER OPERATIONS COULD IGNITE FLAMMABLE OR COMBUSTIBLE LIQUIDS, VAPORS AND SOLIDS.
Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

===== Accidental Release Measures =====

Spill Release Procedures:VACUUM OR SHOVEL ANY SPILLED MATERIAL INTO A SUITABLE CONTAINER. ALLOY WASTES ARE NORMALLY COLLECTED TO RECOVER METAL VALUES.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:DO NOT EXPOSE SKIN OR EYES TO HEAT AND RADIATION FROM WELDING OPERATIONS.
Other Precautions:USE SCREENS AS APPROPRIATE TO MINIMIZE UV EXPOSURE WITHIN THE WORK PLACE .

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

Respiratory Protection:PROTECTION NECESSARY WHEN EXPOSURE LIMITS ARE EXCEEDED DURING WELDING WITH THESE ELECTRODES. USE NIOSH/MSHA APPROVED AIR-SUPPLIED RESPIRATOR IN CONFINED SPACES.
Ventilation:WELDING:LOCAL EXHST.MAINTAIN EXPOS 1832F
Spec Gravity:4-6
Appearance and Odor:METALLIC SILVER COLORED WIRE WITH A FLUX COATING OR FLUX CORE, ODORLESS

===== 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:(PRODUCED DURING CONSUMPTION) METALS, METAL OXIDES, CHROMATES, FLUORIDES, CARBON MONOXIDE, OZONE, (SEE SUPP DATA)

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

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

Disclai

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