

INCO ALLOYS INTERNATIONAL INC -- INCONEL FILLER METAL 82 & 82T -- 3439-00-935-7873

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Product Identification  
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Product ID:INCONEL FILLER METAL 82 & 82T

MSDS Date:01/01/1992

FSC:3439

NIIN:00-935-7873

MSDS Number: BQGQG

=== Responsible Party ===

Company Name:INCO ALLOYS INTERNATIONAL INC

Address:1401 BURRIS RD

City:NEWTON

State:NC

ZIP:28658-1754

Country:US

Info Phone Num:704-465-0356

Emergen

cy Phone Num:704-465-0356

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

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Composition/Information on Ingredients  
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Ingred Name:CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by Wt: 20% %

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9293

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:

IRON  
CAS:7439-89-6  
RTECS #:NO4565500  
Fraction by Wt: 1% %  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG/M3  
ACGIH TLV:10 MG/M3 AS FE2O3

Ingred Name:MANGANESE (SARA III)  
CAS:7439-96-5  
RTECS #:OO9275000  
Fraction by Wt: 3% %  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:(C) 5 MG/M3 DUST  
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:NICKEL (SARA III)  
CAS:7440-02-0  
RTECS #:QR5950000  
Fraction by Wt: 72% %  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9293

Ingred Name:NIOBIUM  
CAS:7  
440-03-1  
Fraction by Wt: 3% %  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG/M3  
ACGIH TLV:5 MG/M3

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

LD50 LC50 Mixture:NOT SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:AS SHIPPED PRODUCT HAS NO KNOWN  
HAZARDS. USER GENERATED DUSTS AND FUMES MAY CAUSE HEALTH HAZARDS  
SUCH AS PULMONRY FIBROSIS, BRON

CHIAL IRRITATION, ECZEMATOUS

ERUPTIONS, CONJUNCTIVITIS, GASTROINTESTINAL DISTURBANCES, METAL FUME FEVER, NECROSIS, LIVER DISEASE

Explanation of Carcinogenicity:PER MFR, IARC STATES WELDING FUMES ARE POSSIBLY CARCINOGENIC TO HUMANS, NICKEL ALSO POSSIBLY CARCINOGENIC PER IARC & NTP

Effects of Overexposure:EYE IRRITATION, SKIN IRRITATION, DERMATITIS, CONJUNCTIVITIS, PULMONARY FIBROSIS, SIDEROSIS, APATHY, DROWSINESS, WEAKNESS, SPASTIC GAIT, PARALYSISM CHILLS, FEVER, BODY ACHES, VOMITING, SWEATING

Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN CONDITIONS AND RESPIRATORY CONDITIONS MAY BE AGGRAVATED BY EXPOSURE.

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First Aid Measures  
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First Aid:EYES: FLUSH PARTICLES WITH CLEAN WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL HELP. SKIN: WASH WITH SOAP AND WATER. IF RASH DEVELOPS, SEEK MEDICAL ATTENTION. INHALATION: REMOVE FROM EXPOSURE. IF SEVERE RESPIRATORY IRRITATION PERSISTS, SEEK MEDICAL HELP. INGESTION: IF SYMPTOMS OF INGESTION ARISE, SEEK MEDICAL HELP.

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Fire Fighting Measures  
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Flash Point:NONFLAMMABLE

Lower Limits:NONFLAMMABLE

Upper Limits:NONFLAMMABLE

Extinguishing Media:NONFLAMMABLE. USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:NONFLAMMABLE. USE PROCEDURES SUITABLE FOR SURROUNDING FIRE.

Unusual Fire/Explosion Hazard:SPARKS FROM WELDING IN USER OPERATIONS COULD IGNITE

FLAMMABLE OR COMBUSTIBLE LIQUIDS, VAPORS AND SOLIDS.

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Accidental Release Measures  
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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.

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Handling and Storage  
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Handling and Storage Precautions:PRODUCT NOT HAZARDOUS AS SHIPPED/STORED. HAZARD OCCURS WHEN

N USED IN WELDING PROCESS.

Other Precautions:INHALATION CAN PRODUCE AN ACUTE REACTION KNOWN AS METAL FUME FEVER. SYMPTOMS WILL APPEAR WITHIN A FEW HOURS OF EXPOSURE; HOWEVER, LONG TERM EFFECTS HAVE NOT BEEN NOTED.

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

Respiratory Protection:NECESSARY WHEN EXPOSURE LIMITS FOR AIRBORNE CONTAMINANTS ARE EXCEEDED DURING WELDING WITH THESE ELECTRODES. USE AIR SUPPLIED RESPIRATOR IN CONFINED SPACES. USE ONLY NIOSH APPROVED

RESPIRATORS IN ACCORDANCE WITH 29 CFR 1910.134.

Ventilation:USE LOCAL EXHAUST WHEN WELDING. MAINTAIN EXPOSURES BELOW ACCEPTABLE LIMITS. CONFINED SPACES REQUIRE SPECIAL VENTILATION.

Protective Gloves:WELDER'S GLOVES

Eye Protection:FACE PROTECTION WITH WELDERS' LENS SHADE

Other Protective Equipment:FLAME RETARDANT CLOTHING

Work Hygienic Practices:WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING DRINKING OR SMOKING.

Supplemental Safety and Health

THE INGREDIENTS OF

FUMES AND GASES GENERATED IN USER WELDING OPERATIONS

WILL DEPEND ON THE FILLER METAL ALLOY, BASE METAL, FLUX AND THE SPECIFIC PROCESS BEING USED.

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

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:>2552F,>140

Vapor Pres:NOT GIVEN

Vapor Density:NOT GIVEN

Spec Gravity:8 - 9

Evaporation Rate & Reference:NIL

Solubility in Water:NEGLIGIBLE

Appearance and Odor:METALLIC SILVER COLORED WIRE, ODORLESS

Peren

t Volatiles by Volume:NIL

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===== 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:METAL FUMES, METAL OXIDE FUMES, CHROMATES, FLUORIDES, CARBON MONOXIDE, OZONE, OXIDES OF NITROGEN, PHOSGENE

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMI

## NATING SURROUNDING

ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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