

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

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

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

Emergency Phone Num:704-465-0356

CAGE:9Z762

=== Contractor Identification

n ===

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: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 R

EC 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:7440-03-1
Fraction by Wt: 3% %
Other REC Limits:NONE RECOMMENDED
O
SHA 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, BRONCHIAL IRRITATION, ECZEMATOUS
ERUPTIONS, CONJUNCTIVITIS, GASTR
OINTESTINAL 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:PR

E-EXISTING SKIN CONDITIONS AND
RESPIRATORY CONDITIONS MAY BE AGGRAVATED BY EXPOSURE.

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

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 EXPO SURE. IF SEVERE RESPIRATORY IRRITATION PERSISTS, SEEK
MEDICAL HELP. INGESTION: IF SYMPTOMS OF INGESTION ARISE, SE
EK
MEDICAL HELP.

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

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 =====

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:PRODUCT NOT HAZARDOUS AS
SHIPPED/STORED. HAZARD OCCURS WHEN USED IN WELDING PROCESS.
Other Precautions:INHALATION CAN PRODU
CE 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.

===== 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 ACCOR DANCE WITH 29 CFR 1910.134.
Ventilati

on: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 DEP
END ON THE FILLER METAL ALLOY, BASE METAL, FLUX AND THE
SPECIFIC PROCESS BEING USED.

===== 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
Percent Volatiles by Volume:NIL

===== 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

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING
ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE,

DISPOSAL CONTAINER OR
LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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