

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

Product ID:INCONEL FILLER METAL 625 (625T)

MSDS Date:08/03/1992

FSC:3439

NIIN:01-140-9056

MSDS Number: BQCXF

=== Responsible Party ===

Company Name:INCO ALLOYS INTERNATIONAL INC

Address:1401 BURRIS RD

City:NEWTON

State:NC

ZIP:28658-1754

Country:US

Info Phone Num:304-526-5436

Emergency Phone Num:304-526-5780

CAGE:9Z762

=== Contractor Identific

ation ===

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

Company Name:ROBINSON TECHNICAL PRODUCTS SOUTHWEST

Address:330 S. 66TH STREET

Box:230070

City:HOUSTON

State:TX

ZIP:77011

Country:US

CAGE:TO646

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

Ingred Name:CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000

= Wt:22.

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGI

H TLV:0.5 MG/M3; 9293  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:IRON OXIDE  
CAS:1309-37-1  
RTECS #:NO7400000  
= Wt:3.  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG/M3 (FE)  
ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name:MOLYBDENUM  
CAS:7439-98-7  
RTECS #:QA4680000  
= Wt:9.  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3; 9293

Ingred Name:NICKEL (SARA III)  
CAS:7440-02-0  
RTECS #:QR5950000  
= Wt:61.  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 92  
93

Ingred Name:NIOBIUM (ALSO CALLED COLUMBIUM)  
CAS:7440-03-1  
= Wt:4.  
Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:ACUTE EXPOSURE TO WELDING FUMES MAY  
PRODUCE METAL FUME FEVER. CHRONIC EFFECTS MAY BE SKIN  
SENSITIZATION, RESPIRATORY DISEASE.  
Explanation of Carcinogenicity:CHROMIUM AND NI

## CKEL AND THEIR COMPOUNDS

ARE LISTED AS CARCINOGENS BY NTP & IARC. SEE INDIVIDUAL REPORTS FOR DETAILS.

Effects of Overexposure:INHALATION (METAL FUME FEVER): METALLIC TASTE, NAUSEA, TIGHTNESS IN CHEST, FEVER, COLD-LIKE SYMPTOMS. SKIN: ALLERGIC REACTION AFTER SENSITIZATION.

Medical Cond Aggravated by Exposure:PRE-EXISTING RESPIRATORY OR ALLERGIC CONDITIONS

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

First Aid:EYE: FLUSH PARTICLES FROM THE EYEBALLS WITH CLEAN WATER FOR

AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. SKIN: WASH SKIN WITH SOAP AND WATER TO REMOVE ANY METALLIC PARTICLES. IF A RASH DEVELOPS, SEEK MEDICAL ATTENTION. INHALE: REMOVE FROM EXPOSURE. IF SEVERE RESPIRATORY IRRITATION PERSISTS, SEEK MEDICAL HELP. INGEST: IF SYMPTOMS OF INGESTION ARISES, SEEK MEDICAL HELP.

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

Flash Point:NON-FLAMMABLE

Lower Limits:NONE

Upper

Limits:NONE

Extinguishing Media:NO INFORMATION GIVEN ON MSDS BY MFR. PRODUCT IS NON FLAMMABLE. EXTINGUISH WITH MEDIA APPROPRIATE FOR SOURCE OF FIRE.

Fire Fighting Procedures:NO INFORMATION GIVEN ON MSDS BY MFR. FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE.

Unusual Fire/Explosion Hazard:NO INFORMATION GIVEN ON MSDS BY MFR. HMIS:NONE

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

Spill Release Procedures:

VACUUM RESIDUE FROM CUTTING, GRINDING OR WELDING OPERATIONS INTO SUITABLE CONTAINER.

Neutralizing Agent:NONE

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

Handling and Storage Precautions:NO INFORMATION GIVEN ON MSDS BY MFR.

Other Precautions:REFER TO ANSI Z49.1 FROM THE AMERICAN WELDING SOCIETY AND OSHA 29CFR1910 FROM U.S. DEPT. LABOR FOR ADDITIONAL INFORMATION ON INDUSTRIAL HYGIENE AND SAFETY.

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

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Respiratory Protection:NECESSARY WHEN PEL MAY BE EXCEEDED. USE  
AIR-SUPPLIED RESPIRATOR IN CONFINED SPACES. USE ONLY NIOSH APPROVED  
RESPIRATOR I/A/W 29CFR1910.134.

Ventilation:USE LOCAL EXHAUST WHEN CUTTING, GRINDING OR WELDING.  
CONFINED SPACES REQUIRE SPECIAL ATTENTION.

Protective Gloves:WELDER'S GLOVES

Eye Protection:SEE AWS PUBLICATION F2.2

Other Protective Equipment:WEAR GLOVES, FACE PROTECTION AND FLAME  
RETARDANT CLOTHING. DO NOT EXPOSE SKIN.

Work Hygienic Practices:M

FR: ? HMIS:USE GOOD INDUSTRIAL HYGIENE  
PRACTICE. AVOID UNNECESSARY CONTACT. WASH THOROUGHLY BEFORE EATING  
OR DRINKING.

Supplemental Safety and Health

MSDS RECEIVED FROM NAVY (FOCAL POINT N). NAVY IDENTIFIED NSN.

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

HCC:N1

NRC/State Lic Num:NONE

pH:UNKNON

Appearance and Odor:FILLER METALS ARE SOLID ALLOY WIRE

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

Stability Indicator/Materials to Avoid:YES

N

O INFORMATION GIVEN ON MSDS BY MFR.

Stability Condition to Avoid:NO INFORMATION GIVEN ON MSDS BY MFR.

Hazardous Decomposition Products:WELDING FUMES & GASES CANNOT BE EASILY  
CLASSIFIED AND INCLUDE: METAL OXIDES, CO, OZONE, NITROGEN OXIDES,  
COMPOLEX METALS

Conditions to Avoid Polymerization:WILL NOT OCCUR

===== Toxicological Information =====

Toxicological Information:AS SHIPPED, THESE ELECTRODES HAVE NO KNOWN  
TOXICOLOGICAL PROPERTIES OTHER THAN CAUSING

ALLERGIC REACTIONS IN

INDIVIDUALS SENSITIVE TO THE METALS CONTAINED IN THESE WELDING PRODUCTS. THE HAZARDS OF ING ESTION, IF ANY, ARE DISCUSSED IN THE SPECIFIC INGREDIENT SECTION.

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

Waste Disposal Methods:DISPOSE I/A/W EPA OR LOCAL REGULATIONS.

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