

INCO ALLOYS INTERNATIONAL INC -- INCONEL FILLER METAL 718 -- 3439-01-003-1114

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

Product ID:INCONEL FILLER METAL 718

MSDS Date:05/01/1985

FSC:3439

NIIN:01-003-1114

MSDS Number: BGCPT

=== 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 Nu

m: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

Company Name:SHAMROCK SUPPLY CO

Address:301 E. ALTON AVE

Box:City:SANTA ANA

State:CA

ZIP:92707

Country:US

Phone:714-556-4422

CAGE:48111

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

Ingred Name:CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by Wt: 19%

O

SHA PEL:1 MG/M3  
ACGIH TLV:0.5 MG/M3; 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:IRON OXIDE  
CAS:1309-37-1  
RTECS #:NO7400000  
Fraction by Wt: 19%  
OSHA PEL:10 MG/M3 (FE)  
ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name:MOLYBDENUM  
CAS:439-98-7  
RTECS #:QA4680007  
Fraction by Wt: 4%  
ACGIH TLV:10 MG/CUM

Ingred Name:NICKEL (SARA III)  
CAS:7440-02-0  
RTECS #:QR5950000  
Fraction by Wt: 53%  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9192

Ingred Name:NIOBIUM  
CAS:7440-03-1  
Fraction by Wt: 5%  
ACGIH TLV:NONE

Ingre  
d Name:TITANIUM  
CAS:7440-32-6  
RTECS #:XR1700000  
Fraction by Wt: 1%  
ACGIH TLV:10 MG/CUM

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:UNKNOWN IARC:YES  
Health Hazards Acute and Chronic:ACUTE: SEE SYMPTOMS. CHRONICI SKIN  
SENSITIZATION, NEUROLOGICAL DAMAGE AND RESPIRATORY DISEASE, NICKEL  
AND CHROMIUM MUST BE CONSIDERED POSSIBLE CARCINOGENS  
Explanation of Carcinogenicity:NICKEL IS

PROBABLY CARCINOGENIC FOR HUMANS. CHROMIUM IS LISTED AS A HUMAN CARCINOGEN. WELDING DOES NOT INCREASE RISK.

Effects of Overexposure: METALLIC TASTE, NAUSEA, TIGHTNESS OF CHEST, FEVER, IRRITATION OF EYES, NOSE, THROAT AND SKIN; LOSS OF CONSCIOUSNESS/DEATH DUE TO WELDING GASES OR LACK OF OXYGEN.

Medical Conditions Aggravated by Exposure: PREEXISTING RESPIRATORY OR ALLERGIC CONDITIONS MAY OCCUR IN SOME WORKERS.

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

First Aid: REMOVE FROM EXPOSURE AND OBTAIN PROMPT MEDICAL ATTENTION. IF VICTIM IS UNCONSCIOUS, ADMINISTER OXYGEN. IF NOT BREATHING, RESUSCITATE IMMEDIATELY.

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

Flash Point: NONE  
Extinguishing Media: MEDIA SUITABLE FOR SURROUNDING FIRE.  
Unusual Fire/Explosion Hazard: NONFLAMMABLE; HOWEVER, WELDING ARCS AND SPARKS CAN IGNITE FLAMMABLE LIQUIDS AND VAPORS AND COMBUSTIBLE SOLIDS.

=====  
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 SPECIAL HANDLING OR STORAGE REQUIREMENTS.  
Other Precautions: NONE

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

Respiratory Protection: NECESSARY WHEN PERMISSIBLE EXPOSURE LIMITS MAY BE EXCEEDED DURING CU

CUTTING, GRINDING, OR WELDING. USE AIR-SUPPLIED  
RESPIRATOR IN CONFINED SPACES. USE ONLY NIOSH APPROVED RESPIRATOR  
IN ACCORDANCE WITH 29CFR1910.134

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

Protective Gloves:WELDING

Eye Protection:SELECT WELDING LENSE SHADE(AWS PUB F2.2)

Other Protective Equipment:FACE PROTECTION AND FLAME RETARDANT  
CLOTHING.

Work Hygienic Practices:MAINTAIN EXPOSURES BELOW T  
HE PEL/TLV. USE

INDUSTRIAL HYGIENE AIR MONITORING TO ENSURE EXPOSURE BELOW PEL/TLV.

Supplemental Safety and Health

ALWAYS USE EXHAUST VENTILATION. FOR ADDITIONAL INFORMATION:ANSI Z49.1

THE AMERICAN WELDING SOCIETY,P.O.BOX 351040,MIAMI, FL 33135 AND  
OSHA(29CFR1910), U.S.DEPT OF LABOR, WASHINGTON D.C. 20210.

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

HCC:N1

Solubility in Water:NEGLIGIBLE

Appearance and Odor:SOLID ALLOY WIRE

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:CHLORINATED SOLBENTS MAY BE DECOMPOSED BY  
THE ARC INTO TOXIC GASES SUCH AS PHOSGENE.

Hazardous Decomposition Products:OXIDES OF NICKEL, CHROMIUM, FLUORIDES  
AND COMPLEX METALLICS, CARBON MONOXIDE, OZONE AND OXIDES OF  
NITROGEN.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH E  
PA OR LOCAL  
REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this informatio

n to their  
particular situation.