

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

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Product Identification  
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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 N

um: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

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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: 19%

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 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

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

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===== 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.

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

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Fire Fighting Measures  
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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.

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Accidental Release Measures  
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Spill Release Procedures: VACUUM RESIDUE FROM CUTTING, GRINDING, OR WELDING OPERATIONS INTO SUITABLE CONTAINER.  
Neutralizing Agent: NONE

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Handling and Storage  
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Handling and Storage Precautions: NO SPECIAL HANDLING OR STORAGE REQUIREMENTS.  
Other Precautions: NONE

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Exposure Controls/Personal Protection  
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Respiratory Protection: NECESSARY WHEN PERMISSIBLE EXPOSURE LIMITS MAY BE EXCEEDED DURING C

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  
THE 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

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

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:CHLORINATED SOLVENTS 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  
EPA OR LOCAL  
REGULATIONS.

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