

INCO ALLOYS INTERNATIONAL INC -- MONEL W.E. 190N -- 3439-00-230-1706

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

Product ID:MONEL W.E. 190N

MSDS Date:12/01/1990

FSC:3439

NIIN:00-230-1706

MSDS Number: BYFFR

=== 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

CAG

E: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

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

Ingred Name:BARIUM CARBONATE

CAS:513-77-9

RTECS #:CQ8600000

Fraction by Wt: 1-5%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG BA/M3

ACGIH TLV:2 MG BA/M3

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE)

CAS:1317-65-3

RTECS #:EV9580000

Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9495

Ingred Name:CALCIUM FLUORIDE (AS F)
CAS:7789-75-5
RTECS #:EW1760000
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:COPPER (SARA 313) (CERCLA)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 15-40%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2 MG/M3 FUME; 9495
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:MANGANESE (SARA 313)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9495

Ingred Name:NICKEL (SARA 313) (CERCLA)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 40-70%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9495

Ingred Name:SODIUM FLUORALUMINATE
CAS:15096-52-3
RTECS #:WA9625000
Fraction by Wt: 5-10%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2.5 MG (F)/M3
ACGIH TLV:2.0 MG (AL)/M3

Ingred Name:SODIUM

SILICATE
CAS:1344-09-8
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:SILICON DIOXIDE
CAS:14808-57-0
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:TITANIUM
CAS:7440-32-6
RTECS #:XR1700000
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:TITANIUM DIOXIDE
CAS:13463-67-7
RTECS #:XR2275000
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9495

===== 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: INHALATION OF WELDING FUMES MAY CAUSE NERVOUS SYSTEM AND MUSCLE IRREGULARITIES, IRRITATION OF EYES, NOSE, THROAT, AND RESPIRATORY SYSTEM, METAL FUME FEVER. CHRONIC: INHALATION OF FUMES MAY CAUSE CANCER, FLUOROSIS AND AFFECT LUNG FUNCTION.
Explanation of Carcinogenicity:CONTAINS NICKEL WHICH IS LISTED BY BOTH IARC AND NTP.
Effects of Overexposure:INHALATION: NAUSEA, DIZZINESS, DRYNESS OF NOSE AND THROAT, COUGHING, WHEEZING AND SHORTNESS OF BREATH. EYES: REDNESS, TEARING, BLURRED VISION.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. RESUSCITATE IF NEEDED. EYES: FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. SEE DOCTOR. SKIN: WASH WITH SOAP AND

D WATER. INGESTION: DO NOT INDUCE VOMITING. SEE DOCTOR.

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

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard:NON-FLAMMABLE; BUT SPARKS AND WELDING ARC MAY IGNITE COMBUSTIBLES DURING USE.

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

Spill Release Procedures:PICK UP

RODS. SWEEP UP OR MOP. PLACE RESIDUE

IN A CONTAINER FOR DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:REMOVE ANY COMBUSTIBLES FROM WORK AREA: SPARKS OR WELDING ARC COULD IGNITE NEARBY COMBUSTIBLES.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR FOR WELDING

FUMES OR SUPPLIED AIR RESPIRATOR IN CONFINED SPACES OR WHERE FUME CONCENTRATION EXCEEDS REGULATORY LIMITS.

Ventilation:USE MECHANICAL OR LOCAL EXHAUST OR BOTH TO MAINTAIN LEVELS OF FUMES BELOW REGULATORY LIMITS.

Protective Gloves:WELDERS WORK GLOVES

Eye Protection:WELDERS HELMET WITH CORRECT LENSES

Other Protective Equipment:CLOTHING TO PROTECT ENTIRE BODY FROM SPARKS.

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

HCC:N1

Solubility in Water:INSOLUBLE

Appearance and Odor:WELDING ELECTRODES ARE METALLIC SILVER COLORED WIRE WITH A FLUX COATING OR CORE

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

Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decompos

ition Products:NONE SPECIFIED BY MANUFACTURER.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND
FEDERAL REGULATIONS.

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