

NATIONAL WELDING ALLOYS,INC. -- AWS A5,13-80,CLASS RCOCR-A(BARE), ALLOY FM6 --
3439-00-246-0549

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

Product ID:AWS A5,13-80,CLASS RCOCR-A(BARE), ALLOY FM6

MSDS Date:08/01/1990

FSC:3439

NIIN:00-246-0549

MSDS Number: BMTLZ

=== Responsible Party ===

Company Name:NATIONAL WELDING ALLOYS,INC.

Address:1600 S. CANAL ST.

City:PITTSBURGH

State:PA

ZIP:15215

Country:US

Info Pho

ne Num:412-781-4255

Emergency Phone Num:412-781-4255

CAGE:0ACE2

=== Contractor Identification ===

Company Name:NATIONAL TORCH TIP CO INC.

Address:50 FREEPORT RD

City:PITTSBURGH

State:PA

ZIP:15215-2906

Country:US

Phone:412-781-4200

CAGE:93009

Company Name:NATIONAL WELDING ALLOYS INC

Address:1600 SOUTH CANAL STREET

Box:City:PITTSBURGH

State:PA

ZIP:15215-2624

Country:US

Phone:412-781-4255

CAGE:0ACE2

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

Ingred Name:TUNGSTEN *

CAS:74

40-33-7
RTECS #:YO7175000
Fraction by Wt: 3-6% %
OSHA PEL:5 MG/M3/ 10 STEL *
ACGIH TLV:5 MG/M3/10 STEL;9192

Ingred Name:SILICON *
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: 2.0%
OSHA PEL:10 MG/M3 TDUST *
ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name:MOLYBDENUM *
CAS:7439-98-7
RTECS #:QA4680000
Fraction by Wt: 1%
OSHA PEL:10 MG/M3 TDUST *
ACGIH TLV:10 MG/M3; 9192 *

Ingred Name:NICKEL (SARA III) *
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 3.0%
OSHA PEL:1 MG/M3 *
ACGIH TLV:1 MG/M3; 9192
*

Ingred Name:IRON OXIDE *
CAS:1309-37-1
RTECS #:NO7400000
Fraction by Wt: 3.0%
OSHA PEL:10 MG/M3 (FE) *
ACGIH TLV:5 MG/M3(FE),B2; 9192

Ingred Name:CHROMIUM (SARA III) *
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 26-32%
OSHA PEL:1 MG/M3 *
ACGIH TLV:0.5 MG/M3; 9192 *
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:COBALT (SARA III) *
CAS:7440-48-4
RTECS #:GF8750000
Fraction by Wt: BALANCE
OSHA PEL:0.05 MG/M3 *
ACGIH TLV:0.05 MG/M3;DUST 9192

===== Hazards Identification ==

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LD50 LC50 Mixture:NOT SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:LONG TERM EXPOSURE TO WELDING
FUME,GASES OR DUST MAY CONTRIBUTE TO PULMONARY IRRITATION OR
PNEUMOCONIOSIS.
Explanation of Carcinogenicity:CHROMIUM (+6) & NICKEL ARE LISTED AS
CARCINOGENIC.
Effects of Overexposure:METALLIC TASTE IN THE MOUTH,DRYNESS OR
IRRITATION OF TH
E THROAT;COUGHING,SHORTNESS OF BREATH,NAUSEA,ETC.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:REMOVE FROM DUST OR FUME EXPOSURE. IF BREATHING HAS
STOPPED,PERFORM ARTIFICIAL RESPIRATION. SUMMON MEDICAL AID
IMMEDIATELY.

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

Flash Point:NONFLAMMABLE
Extinguishing Media:USE PROPER EXTINGUISHING MEDIA FOR SURROUNDING
FI
RE.
Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER.
Unusual Fire/Explosion Hazard:WELDING FLAME OR ARC MAY IGNITE THE
COMBUSTIBLES.

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

Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:ARC AND SPARKS COULD BE SOURCE OF
IGNITION OF COMBUSTIBLE PRODUCTS.
Ot

her Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:WELDING FUME RESPIRATOR OR AIR-LINE RESPIRATOR
FOR CONFINED SPACE OR WHERE EXPOSURES ARE ABOVE TLV.

Ventilation:USE MECHANICAL VENTILATION AND LOCAL EXHAUST.

Protective Gloves:FLAME PROOF GAUNTLE GLOVES

Eye Protection:HELMETS,HAND SHIELD,GOGGLES & LENSES.

Other Protective Equipment:FLAMEPROOF APRONS,BOOTS,SHOULDER COVERS,
SCREENS,ETC.

Work Hygienic

Practices:WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT
AND BEFORE EATING DRINKING OR SMOKING.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

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

HCC:N1

Appearance and Odor:SOLID WIRE OR ROD.

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

Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous De

composition Products:THE WELDING FUMES OR VAPORS CANNOT BE
CLASSIFIED SIMPLY.

===== 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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