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NATIONAL WELDING ALLOYS, INC. DIV. OF NAT. TORCH TIP -- BARE WIRE ER 80 S-D 2 3439-01-284-5611 ============= Product Identification ================== Product ID:BARE WIRE ER 80 S-D 2 MSDS Date: 08/01/1990 FSC:3439 NIIN:01-284-5611 MSDS Number: BLZJC === Responsible Party ===

Company Name: NATIONAL WELDING ALLOYS, INC. DIV. OF NAT. TORCH TIP Address:1600 SOUTH CANAL STREET

City:PITTSBURGH

State:PA ZIP:15215 Country:US

Inf

o Phone Num:412-781-4255

Emergency Phone Num:412-781-4255/800-424-9300(CHEMTREC)

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

I

ZIP:15215-2624 Country:US

Phone:412-781-4255

CAGE:0ACE2

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

ngred Name:NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000 Fraction by Wt: 0.15%

Other REC Limits: NONE SPECIFIED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name: CARBON BLACK

CAS:1333-86-4

RTECS #:FF5800000 Fraction by Wt: .07-.12%

Other REC Limits: NONE SPECIFIED

OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/M3; 9192

Ingred Name: MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:OO9275000 Fraction by Wt: 1.6-2.1%

Other REC Limits:NONE SPECIFIED OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingr

ed Name:MOLYBDENUM

CAS:7439-98-7

RTECS #:QA4680000 Fraction by Wt: 0.4-0.6%

Other REC Limits: NONE SPECIFIED

OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3; 9293

Ingred Name:PHOSPHOROUS (YELLOW) (SARA III)

CAS:7723-14-0

RTECS #:TH3500000 Fraction by Wt: 0.025%

Other REC Limits: NONE SPECIFIED

OSHA PEL:0.1 MG/M3

ACGIH TLV:0.1 MG/M3; 9192

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name: SILICON

CAS:7440-21-3

RTECS #:VW0400000 Fraction by Wt: 0.5-0.8%

Other REC Limits: NONE SPECIFIED

OSHA PEL:15 MG/M3 TDU

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ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:SULFUR

CAS:7704-34-9

RTECS #:WS4250000 Fraction by Wt: 0.025%

Other REC Limits: NONE SPECIFIED

OSHA PEL:13.0 MG/M3 MFR ACGIH TLV:5.00 MG/M3 MFR

Ingred Name: COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000 Fraction by Wt: 0.50%

Other REC Limits:NONE SPECIFIED OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH TLV:0.2MG/M3 FUME; 9192

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: IRON OXIDE (BALANCE RANGES FROM 95.68 TO 96.73).

CAS:1309-37-1 RTECS #:NO7400

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Fraction by Wt: BALANCE

Other REC Limits: NONE SPECIFIED

OSHA PEL:10 MG/M3 (FE)

ACGIH TLV:5 MG/M3(FE),B2; 9293

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS UNKNOWN.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACLITE-WELDING FUMES

Health Hazards Acute and Chronic:ACUTE-WELDING FUMES MAY CAUSE DISCOMFORT, DIZZINESS, NAUSEA & DRYNESS/IRRITATION OF THE THROAT.CHRONIC-WELDING FUMES,

GASES/DUST MAY CAUSE PULMONARY

IRRITATION/PNEUMONITIS.IRON FUME MAY PRODUCE SIDEROSIS .NICKEL & HEXAVALENT CHROMIUM HAVE BEENREPORTED TO BE CARCINOGENIC.

Explanation of Carcinogenicity: THIS MATERIAL CONTAINS NICKEL.

Effects of Overexposure:WELDING FUMES MAY CAUSE DISCOMFORT, DIZZINESS, NAUSEA AND DRYNESS OR IRRITATION OF THE THROAT. FUMES, GASES OR DUSTS MAY CAUSE PULMONARY IRRITATION OR PNEUMONITIS. IRON FUME MAY PRODUCE SIDEROSIS. NIC KEL & HEXAVALENT CHROMIUM HAVE BEEN REP

TO BE CARCINOGENIC. Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE WELDING FUMES.
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First Aid:GET MEDICAL CARE IF NEEDED.EYES:FLUSH WITH WATER FOR 15 MINUTES HOLDING EYELIDS OPEN.SKIN:WASH THOROUGHLY WITH SOAP & WATER.INHALATION:REMOVE TO FRESH AIR.PROVIDE CPR IF NEEDED.INGESTION:CALL A DOCTOR.
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Flash Point:NONE Extinguishing Media:THIS ALLOY IS NONCOMBUSTIBLE. TO EXTINGUISH A METAL POWDER FIRE, USE DRY SAND, DRY GRAPHITE OR OTHER CLASS "D" POWDER. Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. Unusual Fire/Explosion Hazard:NONE. IN CONTACT WITH ACIDS, HYDROGEN GAS WILL BE FORMED WHICH IS FLAMMABLE AND EXPL OSIVE.
========= Accidental Release Measures ==========
Spill Release Procedures:WEAR RESPIRATORY EQUIPMENT DURING CLEANUP. USE EQUIPMENT THAT KEEPS MATERIAL FROM BECOMING AIRBORNE. TO MINIMIZE DUST GENERATION I.E. WET MOP, HEPA VACUUM.
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Handling and Storage Precautions:STORAGE-KEEP MATERIAL IN CLOSED CONTAINERS AWAY FROM MOISTURE,STRONG OXIDIZERS & ACIDS. Other Precautions:NO FOOD OR SMOKING IN WORK AREAS. WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING FUMES AND VAPORS. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING.
====== Exposure Controls/Personal Protection ========

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING, BRAZING OR SOLDERING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW PEL, TLV OR STEL.

Ventilation:LOCAL EXHAUST AT THE ARC (OR FLAME), OR BOTH, TO KEEP TH

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FUMES AND GASES BELOW PEL'S. TLV'S OR STEL'S IN BREATHING ZONE

Protective Gloves: WELDER'S GLOVE

Eye Protection: PROTECTIVE FACE SHIELD

Other Protective Equipment:EYE WASH STATION, APRONS, HATS, ARM & SHOULDER PROTECTION, AS WELL AS DARK SUBSTANTIAL CLOTHING.

Work Hygienic Practices:WEAR HEAD AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION, SPARKS AND ELECTRICAL SHOCK.

Supplemental Safety and Health

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

HCC:N1

Solubility in Water: INSOLUBLE

Appearance and Odor: SOLID WIRE OR ROD, GREY TO COPPER IN COLOR

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

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS AND ACIDS Stability Condition to Avoid:FLAMES

Hazardous Decomposition Products:METAL OXIDES. DECOMPOSITION PRODUCTS INCLUDE THOSE ORIGINIATING FROM INGREDIENTS + THOSE FROM THE BASE METAL & COATING.

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE AN D LOCAL REGULATIONS

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