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NATIONAL WELDING ALLOYS,INC.DIV. OF NAT.TORCH TIP -- BARE WIRE ER80S-D2

3439-00-165-4198

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

Product ID:BARE WIRE ER80S-D2

MSDS Date:08/01/1990

FSC:3439

NIIN:00-165-4198

MSDS Number: BKQSY === 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 Info Phon

e 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

ZIP:15215-2624 Country:US

Phone:412-781-4255

CAGE:0ACE2

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

Ingred

Name:ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000 Fraction by Wt: .07-.12%

Other REC Limits:NONE SPECIFIED OSHA PEL:15MG/M3 DUST/5 FUME ACGIH TLV:10MG/M3 DUST; 9192

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: MANGANESE (SARA III)

CAS:7439-96-5

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

Other REC Limit s:NONE SPECIFIED

OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:PHOSPHOROUS (YELLOW) (SARA III)

CAS:7723-14-0

RTECS #:TH3500000 Fraction by Wt: 0.4-0.6%

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: 0.15%

Other REC Limits: NONE SPECIFIED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name: SULFUR DIOXIDE (SARA III)

CAS:7446-09-5

RTECS #:WS4550000 Fraction by Wt: 0.025%

Other REC Limits: NONE SPECIFIED

OSHA PEL:5 PPM/5 STEL

ACGIH TLV:2 PPM/5 STEL; 9293

Ingred Name:TITANIUM, METAL

CAS:7440-32-6

RTECS #:XR1700000 Fraction by Wt: 0.5-0.8%

Other REC Limits: NONE SPECIFIED

Ingred Name:ZIRCONIUM

CAS:7440-67-7

RTECS #:ZH7070000 Fraction by Wt: .025%

Other REC Limits: NONE SPECIFIED

OSHA PEL:5 MG/M3/10 STEL

ACGIH TLV:5 MG/M3/10 STEL;9192

Ingred Name: IRON OXIDE

CAS:1309-37-1

RTECS #:NO7400000
Fraction by Wt: >95%
Other REC Limit
s:NONE SPECIFIED

OSHA PEL:10 MG/M3 (FE)

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

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

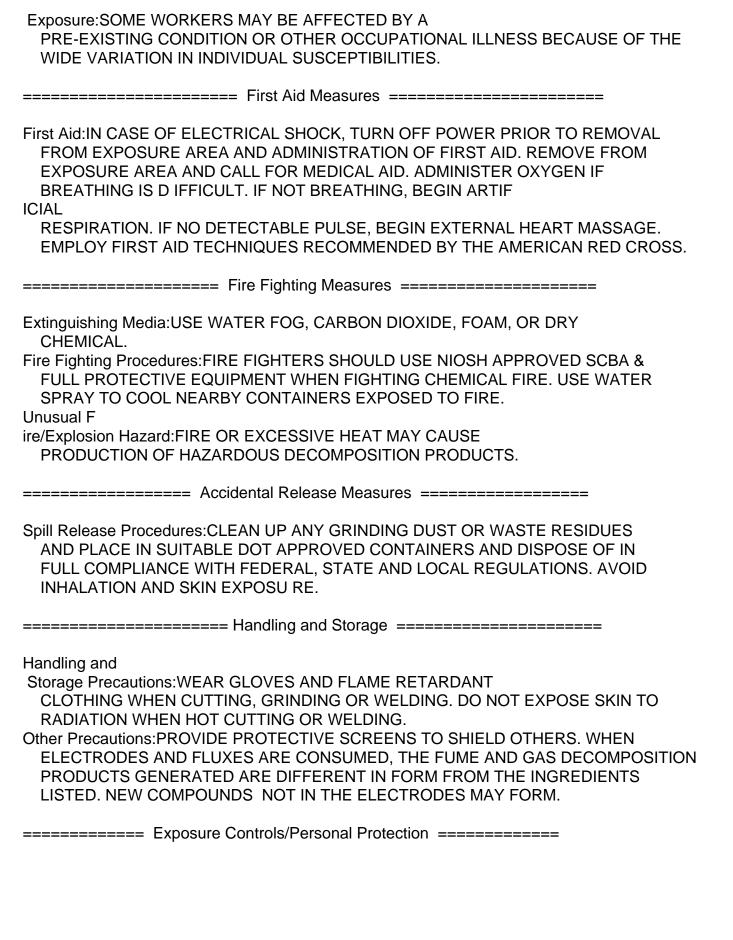
Health Hazards Acute and Chronic:SHORT TERM EXPOSURE TO WELDING FUMES, GASES OR DUST MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT AND EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. A CUT

E EXPOSURE FROM SOME TOXIC

GASES MAYCAUSE PULMONARY EDEMA, ASPHYXIATION AND EXCESSIVE EXPOSURE CAN BE FATAL.

Effects of Overexposure:EXPOSURE TO WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT AND EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. WATERY EYES, HEADACHE, BREA THING DIFFICULTY, FREQUENT COUGHING AND/OR CHEST PAINS MAY OCCUR FROM ACUTE EXPOSURE. TOXIC GASES CAN BE FATAL.

Medical Cond Aggravated by



Respiratory Protection: USE WELD FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN CUTTING, GRINDING OR WELDING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST OR GENERAL VENTILATION DOES NOT KEEP EXPOSURE BELOW RECOMMENDED LIMITS. USE ONLY NIOSH APPROVED RESPIRATORS. Ventilation: USE ENOUGH VENTILATION WHEN CUTTING, GRINDING OR WELDING TO KEEP THE DUST, FUMES & GASES FROM THE WORKERS BREATHING ZONE Protective Gloves:FLAMEPROOF GAUNTLER GLOVES Eye Protection: OSHA APPROVED GOGGLES/FACE SH **IELD W/LENS** Other Protective Equipment: FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING. Work Hygienic Practices: WASH THOROUGHLY BEFORE EATING OR SMOKING. LAUNDER CONTAMINATIED CLOTHING BEFORE REUSE. Supplemental Safety and Health WELDING AND HOT CUTTING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY ARE DEPENDENT ON THE METAL BEING WELDED, THE PROCEDURES, PROCESSES AND THE TYPE OF WIRE OR ELECTRODES USED. OTHER INFLUENCING FACTORS ARE THEPRESENCE OF CONTAMINANTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES. ========= 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 ACIDS AND BASES Stability Condition to Avoid:NONE Hazardous Dec

omposition Products: WELDING AND CUTTING OPERATION MAY INCLUDE OXIDES OF THE METALS, CHROMATES, FLUORIDES, COMPLEX METALLICS, AND OZONE.

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

Waste Disposal Methods: DISPOSE I/A/W FEDERAL, STATE & LOCAL REGULATIONS

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