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NATIONAL WELDING ALLOYS, INC. -- BARE WIRE # 4043 -- 3439-00-178-8590

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

Product ID:BARE WIRE # 4043

MSDS Date:09/01/1995

FSC:3439

NIIN:00-178-8590

MSDS Number: BHXXD === Responsible Party ===

Company Name: NATIONAL WELDING ALLOYS, INC.

Address:1600 SOUTH CANAL STREET

City:PITTSBURGH

State:PA ZIP:15215 Country:US

Info Phone Num:412-781-4255 Emergency Phone Num:412-78

1-4255

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: ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000

Fraction b

y Wt: REMAIDR 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: 0.8%

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 CAS:7439-89-6 RTECS #:NO4565500 Fraction by Wt: 0.8%

Other REC Limits: NONE SPECIFIED

Ingred Name:MAGNESIUM

CAS:7439-95-4

RTECS #:OM2100000 Fraction by Wt: 0.0

5%

Other REC Limits: NONE SPECIFIED

Ingred Name: MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:OO9275000 Fraction by Wt: 0.05%

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

Ingred Name: SILICON

CAS:7440-21-3

RTECS #:VW0400000 Fraction by Wt: 4.5-6.0%

Other REC Limits: NONE SPECIFIED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:TITANIUM, METAL

CAS:7440-32-6

RTECS #:XR1700000 Fraction by Wt: 0.20%

Other REC Limits: NONE SPECIFIED

OSHA PEL:1

0 MG/M3 TIO2 DUST

ACGIH TLV:10 MG/M3 TIO2 DUST

Ingred Name:ZINC (SARA III)

CAS:7440-66-6

RTECS #:ZG8600000 Fraction by Wt: 0.10%

OSHA PEL:10 MG ZNO/M3

ACGIH TLV:10 MG ZNO/M3; 9192

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: OTHER COMPONENTS

Fraction by Wt: 0.05%

Other REC Limits: NONE SPECIFIED

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

LD50 LC50 Mixture: UNCLASSIFIED WELDING FUMES=5MG/M3 PEL

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports o

f Carcinogenicity:NTP:NO IARC:NO OSHA:NO

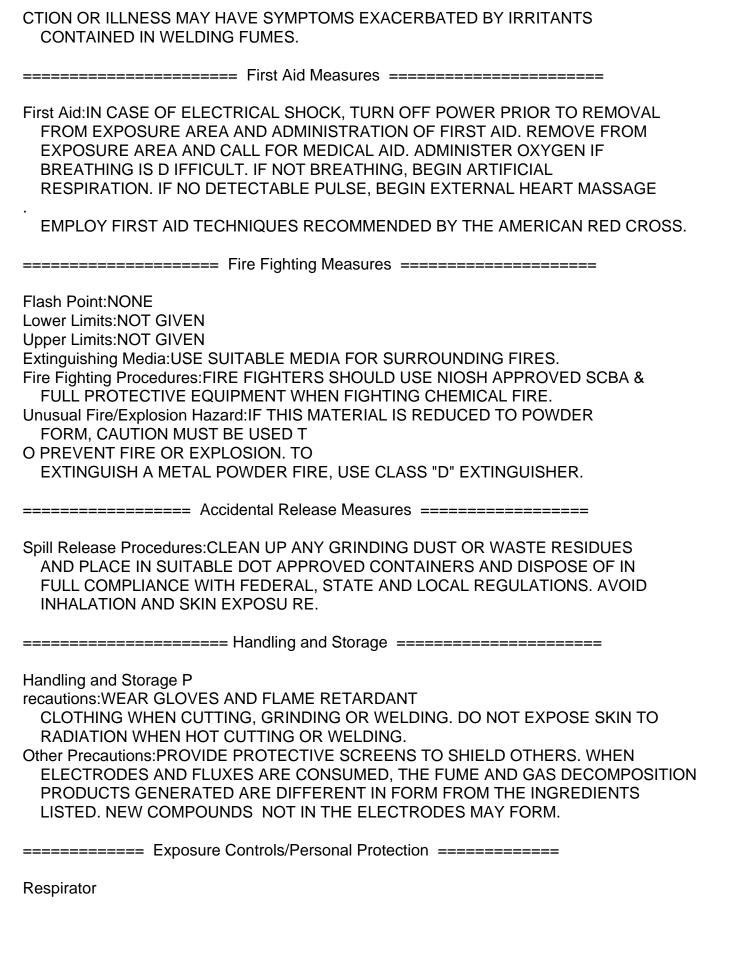
Health Hazards Acute and Chronic:HAZARD RESULTS FROM WELDING PROCESS.
NO HAZARD EXPECTED FROM SHIPPING/STORAGE. SHORT TERM EXPOSURE TO
WELDING FUMES, GASES OR DUST MAY RESULT IN DISCOMFORT, DIZZINESS,
NAUSEA AND DRYNESS OR IRRITATION OF THE THROAT. LONG TERM EXPOSURE
TO WELDING FUMES MAY CONTRIBUTE TO PULMONARY IRRITATION OR
PNEUMOCONIOSIS.

Explanation of Carcinogenicity:NICKEL AND CHROMIUM ARE CONSIDERED POSSIBLE CARCINOGENS U

NDER OSHA. RESPIRATORY CANCER FROM WELDING IS UNCONFIRMED.

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 OCCURE FROM ACUTE EXPOSURE. TOXIC GASES CAN BE FATAL.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH IMPAIRED PULMONARY FUN



y 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: WELDERS LEATHER GLOVES Eye Protection: OSHA APPROVED GOGGLES/FACE SHIELD W/LENS Ot her 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 CONTAMINENTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES. ========= Physical/Chemical Properties =========== HCC:N1 Boiling Pt:B.P. Text:NOT GIVEN Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Vapor Pres:NOT GIVEN Vapor Density: NOT GIVEN Spec Gravity: NOT GIVEN Evaporation Rate & Dry Reference: NOT GIVEN Solubility in Water:NIL Appearance and Odor: SOLID WIRE OR ROD, GREY TO SILVER IN COLOR ====== Stab ility and Reactivity Data ========= Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS AND MINERAL ACIDS.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

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

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

Waste Disposal Methods: PREVENT WASTE FROM CONTAMINATING SURROUNDING **ENVIRONM**

ENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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