View NSN Online: https://aerobasegroup.com/nsn/3439-00-501-7496

Product ID:BARE WIRE # 4043

MSDS Date:09/01/1995

FSC:3439

NIIN:00-501-7496

MSDS Number: BWDVW === 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:412-7

81-4255

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: SILICON (SIO2 AMPHOROUS RESPIRABLE)

CAS:60676-86-0 RTECS #:VV7 328000

Fraction by Wt: 4.5-6%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:10 MG/M3 RDUST; Z-3 ACGIH TLV:0.1 MG/M3 RDUST;9394

Ingred Name: IRON OXIDE

CAS:1309-37-1

RTECS #:NO7400000 Fraction by Wt: 0.8%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:10 MG/M3 (FE)

ACGIH TLV:5MG(FE)/M3FUME,B2;94

Ingred Name: COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000 Fraction by Wt: 0.30%

Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH TLV:0.2 MG/M3 FUME; 9394

EPA Rpt Qty:5000 LBS

DOT Rpt Q ty:5000 LBS

Ingred Name: MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:OO9275000 Fraction by Wt: 0.05%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:C 5 MG/M3

ACGIH TLV:5 MG/M3, DUST; 9394

Ingred Name:MAGNESIUM

CAS:7439-95-4

RTECS #:OM2100000 Fraction by Wt: 0.05%

Other REC Limits: NONE RECOMMENDED

Ingred Name:ZINC (SARA III)

CAS:7440-66-6

RTECS #:ZG8600000 Fraction by Wt: 0.10%

Other REC Limits: NONE RECOMMENDED

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

Ingred Name:TITANIUM ALLOY

Fraction by Wt: 0

.20%

Other REC Limits: NONE RECOMMENDED

Ingred Name: ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000 Fraction by Wt: BALANCE

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15MG/M3 DUST/5 FUME ACGIH TLV:10MG/M3 DUST; 9394

Ingred Name:ZIRCONIUM

CAS:7440-67-7

RTECS #:ZH7070000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:5 MG/M3

ACGIH TLV:5 MG/M3/10 STEL;9394

Ingred Name:NICKEL

CAS:7440-02-0

RTECS #:QR5950000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3

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

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of 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 UNDER 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 FUNCTION OR ILLNESS MAY HAVE SYMPTOMS EXACERBATED BY IRRITANTS CONTAINED IN WELDING FUMES.

First Aid:IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER PRIOR TO REMOVAL FROM EXPOSURE AREA AND ADMINISTRATION OF FIRST AID. REMOVE FROM EXPOSURE AREA AND CALL

FOR MEDICAL AID. ADMINISTER OXYGEN IF
BREATHING IS D IFFICULT. IF NOT BREATHING, BEGIN ARTIFICIAL
RESPIRATION. IF NO DETECTABLE PULSE, BEGIN EXTERNAL HEART MASSAGE.
EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.

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

Flash Point:NONE

Lower Limits: NOT GIVEN Upper Limits: NOT GIVEN

Extinguishing Media: USE SUITABLE MEDIA FOR SURROUNDING FIRES.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPR

OVED SCBA &

FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE.
Unusual Fire/Explosion Hazard:IF THIS MATERIAL IS REDUCED TO POWDER
FORM, CAUTION MUST BE USED TO PREVENT FIRE OR EXPLOSION. TO
EXTINGUISH A METAL POWDER FIRE, USE CLASS "D" EXTINGUISHER.

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

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES AND PLACE IN SUITABLE DOT APPROVED CONTAINERS AND DISPOSE OF IN FULL COMPLIANCE WITH

FEDERAL, STATE AND LOCAL REGULATIONS. AVOID INHALATION AND SKIN EXPOSU RE.

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

- Handling and Storage Precautions:WEAR GLOVES AND FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING.
- Other Precautions:PROVIDE PROTECTIVE SCREENS TO SHIELD OTHERS. WHEN ELECTRODES AND FLUXES ARE CONSUMED, THE FUME AND GAS DECOMPOSITION PRODUCTS GENERATED ARE DIFFERE

NT IN FORM FROM THE INGREDIENTS

LISTED. NEW COMPOUNDS NOT IN THE ELECTRODES MAY FORM.

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

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 WELD ING 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

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 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 & Evaporation R

Solubility in Water:NIL

Appearance and Odor:SOLID WIRE OR ROD, GREY TO SILVER IN COLOR, 0.046" O.D.

======== Stability 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, FLUORID

ES, COMPLEX METALLICS, AND OZONE.

======= 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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