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NATIONAL WELDING ALLOYS, INC. -- BARE WIRE 69 -- 3439-01-100-4352

Product ID:BARE WIRE 69 MSDS Date:08/01/1990

FSC:3439

NIIN:01-100-4352

MSDS Number: BRQRQ === 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:412-781-4255/

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 #:BD033 0000

Fraction by Wt: .4-1%

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

Ingred Name: CARBON

CAS:1333-86-4

RTECS #:FF5800000 Fraction by Wt: 0.08%

Other REC Limits: NONE SPECIFIED

OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/M3; 9192

Ingred Name: CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000 Fraction by Wt: 14-17%

Other REC Limits: NONE SPECIFIED

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9192

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

Ingred Name: COLUMBIUM

Fraction by Wt: .7-1.2%

Other REC Limits: NONE SPECIFIED

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

CAS:7439-89-6

RTECS #:NO4565500 Fraction by Wt: 5-9%

Other REC Limits:NONE SPECIFIED OSHA PEL:10 MG/M3(FE2O3 FUME) ACGIH TLV:5 MG/M3 (FE2O3 FUME)

Ingred Name: MANGANESE (SARA III)

CAS:7439-96-5

RTECS #: OO9275000

Fractio

n by Wt: 1%

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

Ingred Name: NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000 Fraction by Wt: 70% MIN

Other REC Limits: NONE SPECIFIED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name: SILICON

CAS:7440-21-3

RTECS #:VW0400000 Fraction by Wt: 0.50%

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: 2-2

.75%

Other REC Limits: NONE SPECIFIED

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

LD50 LC50 Mixture:TLV FOR WELDING FUMES IS 5 MG/M3

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

Health Hazards Acute and Chronic:WELDING GENERATES FUMES, GASES AND ELECTROMAGNETIC RADIATION WITH KNOWN ADVERSE HEALTH EFFECTS. THE COMPOSITION OF WELDING EMISSIONS VARIES SUBSTANTIALLY WITH THE WELDING PROCESS.

Expl

anation of Carcinogenicity:NICKEL AND CHROMIUM ARE LISTED UNDER IARC AND NTP.

Effects of Overexposure:SHORT TERM EXPOSURETO WELDING FUMES MAY RESULT IN DISCOMFORT, DIZZINESS, NAUSEA AND DRYNESS OR ITTITATION OF THE THROAT. LONG TERM EXPOSURE TO WELDING FUMES, GASES OR DUST MAY CONTRIBUTE TO PULMONARY IRRITATION OR PNEUMONOCONIOSIS. LONG TERM EXPOSURE TO IRON FUMES MAY PRODUCE SIDEROSIS, WHICH IS REGARDED AS BENIGN.

Medical Cond Aggravated by Exposure: INDIVIDUALS WITH IMP

CONTAINED IN WLEDING FUMES.
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First Aid:REMOVE FROM DUST OR FUMES EXPOSURE. IF BREATHING HAS STOPPED PERFORM ARTIFICIAL RESPIRATION. SUMMON MEDICAL AID IMMEDIATELY.
============= Fire Fighting Measures ==============
Extinguishing Media:THIS ALLOY IS NONCOMBUSTIBLE. USE EXTINGUISHING MEDIA APPROPIATE TO THE SURROUND ING FIRE.
Fire Fighting Procedures:IF THSI MATERIAL IS REDUCED TO POWDER FORM, CAUTION MUST BE USED TO PREVENT FIRE OR EXPLOSION. TO EXTINGUISH A METAL FIRE USE DRY SAND, DRY GRAPHITE OR CLASS D. Unusual Fire/Explosion Hazard:NO UNUSUAL FIRE OR EXPLOSION HAZARD ARE ASSOCIATED WITH THIS MATERIAL.
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Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER. Other Precautions:WELDING FUMES AND GASES CANNOT BE CLAS SIFIED SIMPLY. THE COMPOSITION AND QUANTITY OF BOTH ARE DEPENDENT UPON THE METAL WELDED, THE PROCESS, PROCEDURE AND ELECTRODES USED.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:USE RESPIRABLE FUMES 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:USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC OR BOTH TO

FUNCTIONS OR ILLNESS MAY HAVE SYMPTOMS EXCERBATED BY IRRITANTS

KEEP FUMES & GASES BELOW PEL'S, TLV'S PR STEL'S.

Protective Gloves:WELDER'S GLOVES.

Eye Protection: HELMET OR FACE SHIELD WITH FILTER LENS.

Other Protective Equipment:SUBSTANTIAL DARK CLOTH, ARM PROTECTOR, APRON, HAT AND SHOULDER PROTECTION. AIR SAMPLING TO DETERMINE CORRECTIVE MEASURES

Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING, SMOKING OR USING SANITARY FACILITIES.

Supplemental Safety and Health

AIRED PULMONARY

OTHER PRECAUTIONS: USE EXHAUST SYSTEM TO CLEAR WELDI

tion to Avoid:NONE SPECIFIED BY MANUFACTURER.

NG FUMES. MAKE SURE

Hazardous Decomposition Products: VARIOUS ELEMENTAL METALS & METAL OXIDES MAY BE GENERATED FROM MELTING OR DROSS HANDLING OPERATIONS.

======= 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 REG ULATIONS.

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