

NATIONAL WELDING ALLOYS,INC. -- ER4043 -- 3439-01-169-4790

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Product Identification
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Product ID:ER4043

MSDS Date:01/01/1987

FSC:3439

NIIN:01-169-4790

MSDS Number: BGPQN

=== Responsible Party ===

Company Name:NATIONAL WELDING ALLOYS,INC.

Address:1600 S CANAL STREET

City:PITTSBURGH

State:PA

ZIP:15215

Country:US

Emergency Phone Num:(412)781-04255

CAGE:0ACE2

=== Contractor Identification ===

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

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Composition/Information on Ingredients
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Ingred Name:ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000

Fraction by Wt: 93.0%

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: 0.30%

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%
OSHA PEL:10MG/CUM
ACGIH TLV:5MG/CUM

Ingred Name:MAGNESIUM
CAS:7439-95-4
RTECS #:OM2100000
Fraction by Wt: 0.05%

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 0.05%
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%
OSHA PEL:15 MG/M3 TDUST
ACGIH TL
V:10 MG/M3 TDUST; 9293

Ingred Name:TITANIUM
CAS:7440-32-6
RTECS #:XR1700000
Fraction by Wt: 0.20%
OSHA PEL:15MG/CUM(TIO*2)
ACGIH TLV:10MG/CUM(TIO*2)

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:OTHERS,TOTAL
Fraction by Wt: 0.20%

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:N

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Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Effects of Overexposure:SEE HEALTH HAZARDS

Medical Cond Aggravated by Exposure:AGGRAVATION OF PREEXISTING
RESPIRATORY OR ALLERGIC CONDITIONS. HIGHER LEVEL OF LUNG RELATED
PROBLEMS AMONG SMOKERS.

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First Aid Measures
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First Aid:REMOVE FROM EXPOSURE AND OBTAIN PROMPT MEDICAL ATTENTION. IF
UNCONSCIOUS,FIVE OXYGEN. IF NOT BREATHING,GIVE CPR. EMPLOYE FIRST
AID TECHNIQUES RECOMMEDED
BY AMERICAN RED CROSS.

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Fire Fighting Measures
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Extinguishing Media:USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING
GIRE.

Unusual Fire/Explosion Hazard:WELDING ARC AND SPARKS CAN IGNITE
COMBUSIBLE PRODUCTS.

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Accidental Release Measures
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Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE
AND PLACE IN SUITABLE DOT APPROVED DISPOSAL CONTAINER.

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Handling and Stor
age
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Other Precautions:TRAIN WELDER TO KEEP HIS HEAD OUT OF THE FUMES.
MONITOR AIR TO ENSURE ACCEPTABLE EXPOSURES. AVOID ELECTRICAL SHOCK
BY MAINTAINING DRY WORK AREA.

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Exposure Controls/Personal Protection
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Respiratory Protection:FUMES RESPIRATOR OR AIR SUPPLIED RESPIRATOR IN
CONFINED SPACES OR WHERE VENTILATION DOES NOT KEEP EXPOSURE BELOW
TLV.

Ventilation:LOCAL EXHAUST TO MAINTAIN BELOW TLV.

Protective Gloves:WELDER'S GLOVE

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Eye Protection:HELMET OR FACE SHIELD WITH FILTER LENS

Other Protective Equipment:SUBSTANTIAL DARK CLOTH,ARM PROTECTOR,APRON,MAT,SHOULDER PROTECTION.

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

Supplemental Safety and Health

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

HCC:N1

Solubility in Water:INSOLUBLE

Appearance and Odor:WELDING ROD 0.047 INCHES DIAMETER IN 1 LB REEL

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

Stability Indicator/Materials to Avoid:YES

Hazardous Decomposition Products:FUMES OF METALS AND METAL OXIDES, CO,NO*2,O*3.

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

Waste Disposal Methods:DISPOSE OF FUME OR FLUX OR NELOING GRINDING RESIDUE FROM THE WORK AREA OR FROM FILTERS IAW ALL APPICABLE LOCAL,STATE AND FEDERAL REGULATIONS.

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