

NATIONAL WELDING ALLOYS, INC. -- SILVER BRAZING ALLOYS -- 3439-00-968-3557

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Product Identification
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Product ID:SILVER BRAZING ALLOYS

MSDS Date:08/01/1990

FSC:3439

NIIN:00-968-3557

MSDS Number: BYTKZ

=== 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

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:SILVER (SARA III)

CAS:7440-22-4

RTECS #:VW3500000

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.01 MG/M3

ACGIH TLV:0.1 MG/M3; 9192

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:SILVER (SARA III)

CAS

:7440-22-4
RTECS #:VW3500000
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.01 MG/M3
ACGIH TLV:0.1 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
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:ZINC OXIDE
CAS:1314-13-2
RTECS #:ZH4810000
Other REC Limits:NONE SPECIFIED
OSHA PEL:15MG/M3 TDUST/5 FUME
ACGIH TLV:10MG/M3 TDUST; 9293

Ingred Name:C
ADMIMUM OXIDE (SARA III)
CAS:1306-19-0
RTECS #:EV1925000
Other REC Limits:NONE SPECIFIED
OSHA PEL:SEE 1910.1027
ACGIH TLV:0.05 MG(CD)/M3; 9293

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Other REC Limits:NONE SPECIFIED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192

Ingred Name:TIN
CAS:7440-31-5
RTECS #:XP7320000
Other REC Limits:NONE SPECIFIED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9192

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Other REC Limits:NONE SPECIFIED
OS

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

Ingred Name:BORON OXIDE
CAS:1303-86-2
RTECS #:ED7900000
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3; 9293

Ingred Name:FLUORIDES (FUMES)
Other REC Limits:NONE SPECIFIED
OSHA PEL:2.50 MG/M3
ACGIH TLV:2.50 MG/M3

Ingred Name:WELDING FUME
Other REC Limits:NONE SPECIFIED
ACGIH TLV:5 MG/M3; B2; 8990

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===== 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:ACUTE: EXPOSURE TO WELDING FUMES MAY RESULT IN IRRITATION OF THROAT. CHRONIC: EXPOSURE TO WELDING FUMES, GASES OR DUST MAY CONTRIBUTE TO PULMONARY IRRITATION OR PNEUMOCONIOSIS. EXPOSURE TO IRON FUMES MAY PRODUCE SIDEROSIS.

Explanation of Carcinogenicity:CARCINOGENS-NICKEL AND CADMIUM SHOULD BE CONSIDERED POSSIBLE CARCINOGENS PER OSHA 29CFR 1910.1200.

Effects of Overexposure:ACUTE: DISCOMFORT, DIZZINESS, NAUSEA AND

DRYNESS. CHRONIC: CADMIUM OXIDE FUMES ASSOCIATED WITH INDUSTRIAL WELDING PROCESSES ARE SUSPECTED OF INDUCING CANCER.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH IMPAIRED PULMONARY FUNCTION OR LIINESS MAY HAVE SYMPTOMS EXACERBATED BY IRRITANTS CONTAINED IN WELDING FUMES.

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===== First Aid Measures =====

First Aid:FIRST AID-REMOVE FROM DUST OR FUME EXPOSURE. IF BREATHING HAS STOPPED PERFORM ARTIFICIAL RE

SPIRATION. SUMMON MEDICAL AID
IMMEDIATELY.

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

Flash Point:NONE

Extinguishing Media:THIS ALLOY IS NONCOMBUSTIBLE. USE EXTINGUISHING MEDIA APPROPRIATE TO THE SURROUNDING FIRE.

Fire Fighting Procedures:THIS MATERIAL IS REDUCED TO POWDER FORM. TO EXTINGUISH A METAL POWDER FIRE USE DRY SAND, DRY GRAPHITE OR OTHER CLASS "D" FIRE EXTINGUISHING POWDER.

Unusual Fire/Explosion Hazard:NO UNUSUAL FIRE OR EXPLOSIVE HAZARDS ARE ASSOCIATED WITH THIS MATERIAL.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

Other Precautions:USE EXHAUST SYSTEM TO CLEAR WELDING FUMES. MAKE SURE THAT INHALED AIR DOES NOT CONTAIN FUME CONSTITUENTS ABOVE PERMISSABLE LEVELS.

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

Respiratory Protection:USE RESPIRABLE FUME 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 ARC (OR FLAME), OR BOTH TO KEEP FUMES/GASES BELOW PEL'S IN WORKER'S AIR ZONE.

Protective Gloves:WELDERS GLOVES

Eye Protection:HELMET OR FACE SHIELD WITH FILTER LENS

Other Protective Equipment:WEAR HEAD & BODY PROTECTION. THIS INCLUDES APRONS, ARM PROTECTORS, HATS, SHOULDER PROTECTION AS WELL AS DARK CLOTHING.

Work Hygienic Practices:WELDERS SHOULD NOT WEAR SHORT SLEEVE SHIRTS, SHORT PANTS OR CUTOFFS.

Supplemental Safety and Health

PROVIDE PROTECTIVE SCREENS AND FLASH GOGGLES, IF NECESSARY, TO SHIELD OTHERS. TRAIN EMPLOYEES NOT TO TOUCH LIVE ELECTRICAL PARTS AND TO INSULATE HIMSELF FROM WORK AND GROUND.

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

HCC:N1

Appearance and Odor:RODS MAY BE COATED WITH A CHEMICAL FLUX OF VARIOUS COLORS. SOLID WIRE CUT.

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

Stability Indicator/Materials to Avoid: YES

MINERAL ACIDS AND OXIDIZING AGENTS WHICH MAY GENERATE HYDROGEN GAS; THE EVOLUTION OF HYDROGEN CAN BE AN EXPLOSION HAZARD

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

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

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

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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 AND LOCAL REGULATIONS

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