

NATIONAL WELDING ALLOYS, INC. -- SILVER BRAZING ALLOYS -- 3439-00-160-3524  
===== Product Identification =====

Product ID:SILVER BRAZING ALLOYS  
MSDS Date:09/01/1995  
FSC:3439  
NIIN:00-160-3524  
Status Code:A  
MSDS Number: CJMPR  
=== 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  
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mergency Phone Num:412-781-4255  
Chemtrec Ind/Phone:(800)424-9300  
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

===== Composition/Information on Ingredients =====

Ingred Name:SILVER (SARA III)  
CAS:7440-22-4  
RTECS #:VW3500000  
= Wt:35.  
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  
&lt; Wt:26.  
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  
= Wt:21.  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:15MG/M3 TDUST/5 FUME  
ACGIH TLV:10MG/M3 TDUST; 9293

Ingred Name:CADMIUM OXIDE (SARA III)  
CAS:1306-19-0  
RTECS #:EV1925000  
= Wt:18.  
Other REC Limits:NONE SPECIFIE  
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OSHA PEL:SEE 1910.1027  
ACGIH TLV:0.05 MG(CD)/M3; 9293

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY  
SYSTEM, KIDNEYS, PROSTATE, & BLOOD (HMIS). 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:THIS PRODUCT CONTAINS CADMIUM.  
Effects of Overexposure:NOT PROVIDED BY MANUFACTURER.  
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 =====

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First Aid:FIRST AID-REMOVE FROM DUST OR FUME EXPOSURE. IF BREATHING HAS STOPPED PERFORM ARTIFICIAL RESPIRATION. SUMMON MEDICAL AID IMMEDIATELY.

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

Flash Point:NONE

Lower Limits:NONE

Upper Limits: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.

===== 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.

===== 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.

===== Physical/Chem

ical Properties =====

HCC:N1

Appearance and Odor:SOLID WIRE COPPER/ SILVER COLOR

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

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.

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===== 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 AND LOCAL REGULATIONS

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