

NATIONAL WELDING ALLOYS, INC. -- BAG-3(S-50 N) GRADE V -- 3439-00-224-3561  
===== Product Identification =====

Product ID:BAG-3(S-50 N) GRADE V  
MSDS Date:08/01/1990  
FSC:3439  
NIIN:00-224-3561  
MSDS Number: BKSJV  
=== 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,CHEMTREC 800-424-9300  
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:COPPER (SARA III)  
CAS:7440-50-

8

RTECS #:GL5325000  
Fraction by Wt: 15.5%  
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:SILVER (SARA III)  
CAS:7440-22-4  
RTECS #:VW3500000  
Fraction by Wt: 50.0%  
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:ZINC OXIDE  
CAS:1314-13-2  
RTECS #:ZH4810000  
Fraction by Wt: 15.5%  
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  
Fraction by Wt: 16.0%  
Other REC Limits:NONE SPECIFIED BY M.  
OSHA PEL:SEE 1910.1027  
ACGIH TLV:0.05 MG(CD)/M3; 9293

Ingred Name:NICKEL (SARA III)  
CAS:7440-02-0  
RTECS #:QR5950000  
Fraction by Wt: 3.0%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9192

==== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:NO

Ingestion: YES

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

Health Hazards Acute and Chronic: SHORT TERM EXPOSURE TO WELDING/BRAZING FUMES, GASES OR DUST MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT AND EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. ACUTE EXPOSURE FROM SOME TOXIC GASES MAY CAUSE PULMONARY EDEMA, ASPHYXIATION AND EXCESSIVE EXPOSURE CAN BE FATAL.

Explanation of Carcinogenicity: NICKEL IS LISTED AS CARCINOGENIC BY NTP,

IARC AND EPA. AND CADMIUM IS LISTED AS ANTICIPATED CARCINOGEN.

Effects of Overexposure: IRRITATION OF EYES, NOSE, THROAT, DIFFICULTY IN BREATHING, ASPHYXIATION AND PULMONARY EDEMA.

Medical Cond Aggravated by Exposure: DISEASE OF THE SKIN AND LUNG.

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

First Aid: REMOVE INDIVIDUAL FROM EXPOSURE AND CONSULT A PHYSICIAN. FOR METAL BURNS, EXPOSURE AREAS SHOULD BE COOLED WITH WATER, AND MEDICAL ATTENTION

SOUGHT. EYES: FLUSH WITH WATER FOR 15 MINUTES.

INHALATION: RE MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN AS NEEDED. GET MEDICAL HELP IF SYMPTOMS PERSIST.

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

Extinguishing Media: USE DRY CHEMICAL., OR CLASS D FIRE EXTINGUISHERS.

Fire Fighting Procedures: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/E

xplosion Hazard: HEAT OF FIRE MAY PRODUCE HAZARDOUS METAL FUMES.

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

Spill Release Procedures: PICK UP METAL RODS. VACUUMING OF IS DUST IS RECOMMENDED. DRY SWEEPING OF DUST MAY RESULT IN HIGH CONCENTRATIONS OF AIRBORNE DUST.

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

Handling and Storage Precautions: AVOID ACCIDENTAL INGESTION BY USING GOOD PERSONAL HYGIENE PRACTICES. WASH THOROUGHLY BEFORE

EATING OR  
SMOKING.

Other Precautions:AVOID INHALING FUMES OR DUST.

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

Respiratory Protection:A NIOSH/MSHS APPROVED LEAD DUST/FUME RESPIRATOR  
SHOULD BE WORN WHERE APPLICABLE LIMITS MAY BE EXCEEDED.

Ventilation:LOCAL EXHAUST OR MECHANICAL (GENERAL) VENTILATION IS  
ADEQUATE.

Protective Gloves:CANVAS, LEATHER OR HEAT RESISTANT.

Eye Protection:SAFETY GLASSES WITH A FACE SHIELD.

Other Protective Equipment:WEAR FACE SHIELD AN  
D IMPERVIOUS APRON WHEN  
SPLASHING OF MOLTEN METAL IS LIKELY.

Work Hygienic Practices:GOOD HOUSEKEEPING PROCEDURES SHOULD BE  
MAINTAINED, AND PERSONNEL SHOULD WASH THOROUGHLY BEFORE EATING OR  
SMOKING.

Supplemental Safety and Health

FOOD AND DRINK SHOULD NOT BE CONSUMED OR TOBACCO PRODUCTS USED, NOR  
COSMETIC APPLIED IN AREAS WHERE METAL EXPOSURE ARE POSSIBLE.

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:1170F,632C

Solubili

ty in Water:INSOLUBLE

Appearance and Odor:METALLIC WIRE, ROD OR STRIP. NO ODOR

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

Stability Indicator/Materials to Avoid:YES  
STRONG ACIDS AND BASES.

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:METAL OXIDE/METAL FUMES MAY BE  
EVOLVED.

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

Waste Disposal Methods:SCRAP OR WASTE SHOULD BE RECYCLED OR DISPOSED OF  
IN ACCORDANCE WITH LOCAL, S

## TATE AND FEDERAL REGULATIONS.

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