

NATIONAL WELDING ALLOYS, INC. -- BAG-7 SILVER BRAZING ALLOY -- 3439-00-390-7947

=====
Product Identification
=====

Product ID: BAG-7 SILVER BRAZING ALLOY

MSDS Date: 09/01/1995

FSC: 3439

NIIN: 00-390-7947

MSDS Number: CCMHT

=== 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

Emerg

ency 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: SILVER (SARA 313) (

CERCLA)
CAS:7440-22-4
RTECS #:VW3500000
Fraction by Wt: 56%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.01 MG/M3
ACGIH TLV:0.1 MG/M3; 9596
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:COPPER (SARA 313) (CERCLA)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 22%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2 MG/M3 FUME; 9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ZINC (SARA 313) (CERCLA)
CAS:7440-66-6
RTECS #:ZG8600000
Fraction by Wt: 17%
Other R
EC Limits:NONE RECOMMENDED
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:TIN
CAS:7440-31-5
RTECS #:XP7320000
Fraction by Wt: 5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9596

Ingred Name:BORIC ACID
CAS:10043-35-3
RTECS #:ED4550000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 MG BORATES/M3
ACGIH TLV:5 MG BORATES/M3

Ingred Name:FLUORIDES (AS FUME)
Other REC Limits:NONE RECOMMENDED

Ingred Name:WELDING FUME
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3

A

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

LD50 LC50 Mixture:UNCLASSIFIED BRAZING FUMES=5MG/M3 PEL

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

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

Health Hazards Acute and Chronic:EXPOSURE TO BRAZING FUMES OR GASES MAY CAUSE METAL FUME FEVER. SYMPTOMS INCLUDE NAUSEA, FEVER, DRYNESS OR IRRITATION OF THE THROAT, COUGHING, BODY ACHE AND CHILLS. LONG TERM EXPOSURE TO BRAZING FUMES, GA

SES OR DUST MAY CONTRIBUTE TO

PULMONARY IRRITATION OR PNEUMOCONIOSIS. USE OF FLUORIDE FLUX FUMES ARE ALSO HAZARDOUS.

Explanation of Carcinogenicity:NONE OF THE INGREDIENTS IN THIS ALLOY ARE CONSIDERED CARCINOGENIC BY NTP, IARC OR OSHA.

Effects of Overexposure:COPPER AND ZINC FUME MAY CAUSE METAL FUME FEVER. SHORT TERM SYMPTOMS MAY INCLUDE A METALLIC TASTE IN THE MOUTH, DRYNESS OR IRRITATIONS OF THE THROAT FOLLOWED BY COUGHING, SHORTNESS OF BREATH, NAUSEA, FEVER, BODY ACH

E, AND CHILLS. LONG

TERM EXPOSURE TO WELDING FUME, GASES OR DUST MAY CONTRIBUTE TO PULMONARY IRRITATION.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH IMPAIRED PULMONARY FUNCTIONS OR ILLNESS MAY HAVE SYMPTOMS EXACERBATED BY FUME IRRITATIONS.

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

First Aid:REMOVE FROM DUST OR FUME EXPOSURE. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY. BRAZING ALLOYS ARE

FREQUENTLY USED WITH A FLUORIDE TYPE FLUX. IF

APPLICABLE, FLUX FUME SHOULD BE CONSIDERED IN TREATMENT.

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

Flash Point:NONE

Lower Limits:NONE

Upper Limits:NONE

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. TO EXTINGUISH A METAL POWDER FIRE, USE DRY SAND, DRY GRAPHITE OR CLASS D EXT

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS

S.

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

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

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES AND PLACE IN SUITABLE DOT APPROVED CONTAINERS AND DISPOSE OF IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. AVOID INHALATION AND SKIN EXPOSURE.

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

Handling

and Storage Precautions:WEAR GLOVES AND FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING OR BRAZING.

Other Precautions:PROVIDE PROTECTIVE SCREENS TO SHIELD OTHERS. WHEN ELECTRODES AND FLUXES ARE CONSUMED, THE FUME AND GAS DECOMPOSITION PRODUCTS GENERATED ARE DIFFERENT IN FORM FROM THE INGREDIENTS LISTED. NEW COMPOUNDS NOT IN THE ELECTRODES MAY FORM.

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

Respiratory Protection:USE WELD FUME RESPIRATOR OR AIR SUPPLIE

D

RESPIRATOR WHEN CUTTING, GRINDING OR BRAZING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST OR GENERAL VENTILATION DOES NOT KEEP EXPOSURE BELOW RECOMMENDED LIMITS. USE ONLY NIOSH APPROVED RESPIRATORS.

Ventilation:USE ENOUGH VENTILATION WHEN CUTTING, GRINDING OR BRAZING TO KEEP THE DUST, FUMES & GASES FROM THE WORKERS BREATHING ZONE

Protective Gloves:WELDERS LEATHER GLOVES

Eye Protection:OSHA APPROVED GOGGLES/FACE SHIELD W/LENS

Other Protective Equipment:DARK FLAME RETARDANT CLOTHING WHEN CUTTING,

GRINDING OR BRAZING INCLUDING ARM & SHOULDER PROTECTORS, APRON, AND HAT.

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING, DRINKING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

BRAZING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY ARE DEPENDENT ON THE METAL BEING WELDED, THE PROCEDURES, PROCESSES AND THE TYPE OF WIRE OR ELECTRODES USED. OTHER INFLUENCING FACTORS ARE THE PRESENCE

OF CONTAMINANTS.

CHLORINATED SOLVENTS AND FLUORIDE FLUXES MAY DECOMPOSE TO TOXIC GASES.

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:1145F,618C

Appearance and Odor:SILVER BRAZING ALLOY; WIRE-0.125 INCHES DIAMETER;
COIL.

Corrosion Rate:UNKNOWNU

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, STRONG MINERAL ACIDS-MAY GENERATE HYDROGEN GAS

WHICH IS AN EXPLOSION HAZARD.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:BRAZING FUMES AND GASES CANNOT BE CLASSIFIED SIMPLY. THE DECOMPOSITON PRODUCTS ARE DIFFERENT FROM THE ROD INGREDIENTS.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This i

nformation is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.