

NATIONAL WELDING ALLOYS, INC. -- ELECTRODE, PHOS BRONZE C -- 3439-00-262-2739

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Product Identification
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Product ID:ELECTRODE, PHOS BRONZE C

MSDS Date:08/01/1990

FSC:3439

NIIN:00-262-2739

MSDS Number: BPBVB

=== 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 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

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Composition/Information on Ingredients
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Ingred Name:PHOSPHORUS, AMORPHOUS, RED

CAS:7723-14-0

RTECS

#:TH3495000
Fraction by Wt: .05-.35%
Other REC Limits:NONE RECOMMENDED
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ALUMINUM (SARA III)
CAS:7429-90-5
RTECS #:BD0330000
Fraction by Wt: 0.01%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15MG/M3 DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:TIN
CAS:7440-31-5
RTECS #:XP7320000
Fraction by Wt: 7.0-9.0%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9192

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
F
raction by Wt: BALANCE
Other REC Limits:NONE RECOMMENDED
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

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===== Hazards Identification =====
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:WELDING GENERATES FUMES, GASES AND
ELECTROMAGNETIC RADIATION WITH KNOWN ADVERSE HEALTH EFFECTS. LONG
TERM EXPOSURE

TO IRON FUME MAY PRODUCE SIDEROSIS, WHICH IS
GENERALLY REGARDED AR BENIGN.

Explanation of Carcinogenicity:THIS MATERIAL CONTAINS NICKEL AND
CHROMIUM COMPOUNDS.

Effects of Overexposure:SHORT TERM EXPOSURE TO WELDING FUME MAY RESULT
IN DISCOMFORT, DIZZINESS, NAUSEA AND DRYNESS OR IRRITATION OF THE
THROAT. LONG TERM EXPOSURE TO WELDING FUME, GASES OR DUST MAY
CONTRIBUTE TO PULMONARY I RRRITATION OR PNEUMOCONIOSIS.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH IMPAIRED PULM
ONARY

FUNCTION OR ILLNESS MAY HAVE SYMPTOMS EXACERBATED BY IRRITANTS
CONTAINED IN WELDING FUMES.

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

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

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

Extinguishing Media:THIS ALLOY IS NONCOMBUSTIBLE. USE EXTINGUISHING
MEDIA AS APPROPRIATE TO THE SURROUNDING F
IRE.

Fire Fighting Procedures:IF THIS MATERIAL IS REDUCED TO POWDER FORM,
CAUTION MUST BE USED TO PREVENT FIRE OR EXPLOSION. TO EXTINGUISH A
METAL POWDER FIRE USE DRY SAND OR DRY GRAPHITE.

Unusual Fire/Explosion Hazard:NO UNUSUAL FIRE OR EXPLOSION 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. M
AKE 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 THE ARC (OR
FLAME), OR BOTH, TO KEEP FUMES AND

GASES BELOW PEL'S, TLV'S, STEL'S
Protective Gloves:WELDER'S GLOVES.
Eye Protection:PROTECTIVE FACE SHIELD.
Other Protective Equipment:ARM PROTECTORS, APRONS, HATS, SHOULDER
PROTECTION, AS WELL AS DARK SUBSTANTIAL CLOTHING.
Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.
Supplemental Safety and Health
NONE

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

HCC:N1
Solubility in Water:INSOLUBLE
Appearance and Odor:ELECTRODES ARE COATED WITH FLUX FOR USE WITH
SHIE
LDED METAL ARE WELDING PROCESS

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

Stability Indicator/Materials to Avoid:YES
NONE SPECIFIED BY MANUFACTURER.
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 =====

Waste Disposal Methods:PREVENT WASTE FORM 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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