

NATIONAL WELDING ALLOYS, INC. -- BARE WIRE FM 67 -- 3439-00-088-8989

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Product Identification
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Product ID:BARE WIRE FM 67

MSDS Date:08/01/1990

FSC:3439

NIIN:00-088-8989

MSDS Number: BGXJH

=== 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:CORE WIRE - CONTAINS THE FOLLOWING EIGHT HAZARDOUS
COMPONENTS.

Other REC Limits:NONE RECOMMENDED

Ingred Name:COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:

0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2MG/M3 FUME; 9293
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9293

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:SILICA, CRYSTALLINE - FUSED
CAS:60676-86-0
RTECS #:VV7328000
Other REC Limits:NONE RECOMMENDED
OSHA
PEL:SEE TABLE Z3
ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:ZINC OXIDE
CAS:1314-13-2
RTECS #:ZH4810000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15MG/M3 TDUST/5 FUME
ACGIH TLV:10MG/M3 TDUST; 9293

Ingred Name:TIN
CAS:7440-31-5
RTECS #:XP7320000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9293

Ingred Name:ALUMINUM (SARA III)
CAS:7429-90-5
RTECS #:BD0330000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15MG/M3 DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9293

Ingred Name:IRON OX

IDE
CAS:1309-37-1
RTECS #:NO7400000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 MG/M3 (FE)
ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name:FLUX COATING - THE FOLLOWING INGREDIENTS ARE THE HAZARDOUS
COMPONENETS
Other REC Limits:NONE RECOMMENDED

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

Ingred Name:SODIUM TETRABORATE, ANHYDROUS
CAS:1330-43-4
RTECS #:VZ2240000
Other REC Limits:NONE RECOMMENDED
OSHA
PEL:10 MG/M3
ACGIH TLV:1 MG/M3; 9293

Ingred Name:TOLUENE (SARA III)
CAS:108-88-3
RTECS #:XS5250000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:200 PPM/150 STEL
ACGIH TLV:50 PPM; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:WELDING FUMES (TOTAL PARTICULATE)
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3
ACGIH TLV:5 MG/M3; B2; 8990

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

LD50 LC50 Mixture:UNCLASSIFIED WELDING FUMES=5MG/M3 PEL
Routes of Entry: Inha

lution:YES Skin:YES Ingestion:NO

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

Health Hazards Acute and Chronic:LONG TERM EXPOSURE TO WELDING FUMES, GASES OR DUST MAY CONTRIBUTE TO PULMONARY IRRITATION OR PNEUMOCONIOSIS. LONG TERM EXPOSURE TO IRON FUMES MAY PRODUCE SIDEROSIS, WHICH IS GENERALLY REGARDED AS BENI GN.

Explanation of Carcinogenicity:NICKEL IS CONSIDERED A POSSIBLE CARCINOGEN UNDER OSHA.

Effects of Overexposure:SHORT TERM EXPOSURE TO WELDING FUMES MAY RESULT IN DISCOMFORT DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF THE THROAT.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH IMPAIRED PULMONARY FUNCTION OR ILLNESS MAY HAVE SYMPTOMS EXACERBATED BY IRRITATS 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 Fig
hting Measures =====

Flash Point:NONE

Autoignition Temp:Autoignition Temp Text:NONE

Lower Limits:NONE

Upper Limits:NONE

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

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

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 SYSTEMS TO CLEAR WELDING FUMES. MAKE SURE THAT INHALED AIR DOES NOT CONTAIN FUME CONSTITUENTS ABOVE PERMISSIBLE LEVELS.

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

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR SUPPLIED AIR RESPIRATOR

WHEN WELDING, BRAZING OR SOLDERING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW PEL, TLV OT STEL.

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

Protective Gloves:WELDERS LEATHER GLOVES

Eye Protection:WEAR HELMET/FACE SHIELD WITH FILTER LENS

Other Protective Equipment:WEAR HEAD & BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION, SPARKS, FLAMES & ELECTRICAL SHOCK.

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR SMOKING. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

WELDING AND HOT CUTTING 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.

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

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HCC:N1

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

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT WITH MINERAL ACIDS & OXIDIZING AGENTS WHICH MAY GENERATE HYDROGEN GAS; THE HYDROGEN GAS MAY BE EXPLOSIVE.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

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

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

Waste Disposal Methods:PREVENT WASTE CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

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