

NATIONAL WELDING ALLOYS, INC. -- 347 STAINLESS STEEL BARE WELDING WIRE --
3439-00-200-1379

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

Product ID:347 STAINLESS STEEL BARE WELDING WIRE

MSDS Date:08/01/1990

FSC:3439

NIIN:00-200-1379

MSDS Number: BPXWL

=== 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(800-424-9300 CHEMTREC)

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 Na

me:CARBON BLACK
CAS:1333-86-4
RTECS #:FF5800000
Fraction by Wt: 0.08%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:3.5 MG/M3
ACGIH TLV:3.5 MG/M3; 9293

Ingred Name:CHROMIUM (SARA III)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 19-21.5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9293
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 9-11%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1
MG/M3; 9293

Ingred Name:MOLYBDENUM
CAS:7439-98-7
RTECS #:QA4680000
Fraction by Wt: 0.75%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3; 9293

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 1-2.5%
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
Fraction by Wt: 0.3-1.0%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE TAB

LE Z3
ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 0.75%
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:IRON OXIDE
CAS:1309-37-1
RTECS #:NO7400000
Fraction by Wt: >69%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 MG/M3 (FE)
ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name:TANTALUM
CAS:7440-25-7
RTECS #:WW5505000
Fraction by Wt: 1%
Oth
er REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3
ACGIH TLV:5 MG/M3; DUST; 9293

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===== Hazards Identification =====
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Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE: INHALATION OF WELDING FUMES MAY
CAUSE NERVOUS SYSTEM AND MUSCLE IRREGULARITIES, IRRITATION OF EYES,
NOSE, THROAT, AND RESPIRATORY SYSTEM, METAL FUME FEVER. CHRONIC:
INHALATION OF FUMES MA
Y CAUS E CANCER, SIDEROSIS, FLUOROSIS AND
AFFECT LUNG FUNCTION.
Explanation of Carcinogenicity:CONTAINS CHROMIUM AND NICKEL WHICH ARE
LISTED BY BOTH IARC AND NTP.
Effects of Overexposure:INHALATION: NAUSEA, DIZZINESS, DRYNESS OF NOSE
AND THROAT, COUGHING, WHEEZING AND SHORTNESS OF BREATH. EYES:
REDNESS, TEARING, BLURRED VISION.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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===== First Aid Measures =====
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First Aid:INHAL

ATION: REMOVE TO FRESH AIR. RESUSCITATE IF NEEDED. EYES:
FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. SEE DOCTOR. SKIN: WASH
WITH SOAP AND WATER. INGESTION: DO NOT INDUCE VOMITING. SEE DOCTOR.

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

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND
FULL PROTECTIVE GEAR. IF WIRE IS REDUCED TO POWDER, USE SAND, DRY
GRAPHITE, OR OTHER CLASS D EXTINGUISHING MATERIAL.
Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER. PICK UP RODS.
SWEEP UP OR MOP. PLACE RESIDUE IN A CONTAINER FOR DISPOSAL.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:REMOVE ANY COMBUSTIBLES FROM WORK
AREA: SPARKS OR WELDING ARC COULD IGNITE
NEARBY COMBUSTIBLES.
Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR FOR WELDING
FUMES OR SUPPLIED AIR RESPIRATOR IN CONFINED SPACES OR WHERE FUME
CONCENTRATION EXCEEDS REGULATORY LIMITS.
Ventilation:USE MECHANICAL OR LOCAL EXHAUST OR BOTH TO MAINTAIN LEVELS
OF FUMES BELOW REGULATORY LIMITS.
Protective Gloves:WELDERS WORK GLOVES
Eye Protection:WELDERS HELMET WITH CORRECT LENSES
Other Protective Equipment:CLOTHING TO PROTECT ENTIRE BODY FROM SPARKS.
Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING,
DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.
Supplemental Safety and Health

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

HCC:N1
Solubility in Water:NEGLIGIBLE
Appearance and Odor:SOLID WIRE OR ROD, GREY TO SILVER IN COLOR

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

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Stability Indicator/Materials to Avoid: YES

STRONG MINERAL ACIDS, STRONG OXIDIZING AGENTS (HYDROGEN GAS MAY BE GENERATED).

Stability Condition to Avoid: CONTACT WITH INCOMPATIBLES.

Hazardous Decomposition Products: METAL FUMES, METAL OXIDES

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

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

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