

NATIONAL WELDING ALLOYS, INC. -- 4043 BARE WIRE -- 3439-00-803-9496

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

Product ID:4043 BARE WIRE

MSDS Date:08/01/1990

FSC:3439

NIIN:00-803-9496

MSDS Number: BFQCT

=== 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:412-781-42

55

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:SILICA, CRYSTALLINE - FUSED

CAS:60676-86-0

RTECS #:VV7328000

Fracti

on by Wt: 4.5-6%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:SEE TABLE Z3  
ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:IRON OXIDE  
CAS:1309-37-1  
RTECS #:NO7400000  
Fraction by Wt: 0.8%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:10 MG/M3 (FE)  
ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name:COPPER (SARA III)  
CAS:7440-50-8  
RTECS #:GL5325000  
Fraction by Wt: 0.3%  
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:MAN  
GANESE (SARA III)  
CAS:7439-96-5  
RTECS #:OO9275000  
Fraction by Wt: 0.05%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:(C) 5 MG/M3 DUST  
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:MAGNESIUM OXIDE  
CAS:1309-48-4  
RTECS #:OM3850000  
Fraction by Wt: 0.05%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:15 MG/M3 PARTICULATE  
ACGIH TLV:10 MG/M3;TDUST; 9293

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

LD50 LC50 Mixture:ORAL RAT LD50 IS NOT KNOWN  
Routes of Entry: Inhalation:YES Skin:NO Ingesti

on:NO

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

Health Hazards Acute and Chronic:WELDING GENERATES FUMES,GASES,AND ELECTROMAGNETIC RADIATION WITH KNOWN HEALTH EFFECTS. THE COMPOSITION OF WELDING EMISSIONS VARIES SUBSTANTIALLY WITH THE WELDING PROCESS. RESULTS ARE WELDING FUME FEVER, SUNBURN FROM ELECTROMAGNETIC RADIATION.

Explanation of Carcinogenicity:PRODUCT IS NOT LISTED AS A CARCINOGEN BY IARC, NTP, OR OSHA.

Effects of Overexposure:EYE:BURNS RESULTING IN POSSIBLE BLINDNESS IF

PROPER EYEWARE IS NOT WORN. SKIN:'SUNBURN' FROM UV RADIATION.

INHALED: RESPIRATORY IRRITATION, DIZZINESS, NAUSEA, DRYNESS OF THROAT, FLU-LIKE SYMPTOMS. INGESTED: HIGHLY UNLIKELY EXPOSURE.

Medical Cond Aggravated by Exposure:IMPAIRED PULMONARY FUNCTION MAY BE EXACERBATED.

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

First Aid:EYE:(BURN) GET MEDICAL ATTENTION SKIN:WASH WITH SOAP & WATER. INHALED:REMOVE TO FRESH AIR. RESTORE BREATHING IF

NECESSARY. INGESTED:UNLIKELY EXPOSURE. IF IRRITATION PERSISTS OR IS SEVERE,SEE A DOCTOR.

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

Flash Point:NON-FLAMMABLE

Extinguishing Media:THIS ALLOY IS NONCOMBUSTABLE. EXTINGUISH FIRE WITH MEDIA APPROPRIATE FOR SOURCE OF FIRE.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. IF REDUCED TO POWDER, USE CAUTION TO PREVENT FIRE OR EXPLOSION.

Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:MFR SAID "NOT APPLICABLE" IN THIS FIELD.

Neutralizing Agent:MFR SAID "NOT APPLICABLE" IN THIS FIELD.

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

Handling and Storage Precautions:NO INFORMATION GIVEN ON MSDS BY SUPPLIER.

Other Precautions:FOR OTHER PRECAUTIONS AND ADDITIONAL SAFETY INFORMATION SEE AMERICAN STANDARD Z49.1-198

0; 'SAFETY IN WELDING AND CUTTING' AND/OR SAFETY IN WELDING FROM THE AMERICAN WELDING SOCIETY.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR OR RESPIRATOR FOR RESPIRABLE DUST IF EXPOSURE IS ABOVE THE TLV/PEL OR IF WELDING IN AN ENCLOSED AREA.

Ventilation:NORMAL ROOM VENTILATION MAY BE SUFFICIENT. SUPPLEMENT WITH LOCAL EXHAUST NEAR THE ARC IF PEL/TLV IS EXCEEDED.

Protective Gloves:WE LDERS GLOVES

Eye Protection:FACE SHIELD WITH ANSI FILTER

Other Protective Equipment:WORK CLOTHING AND GLOVES AS NEEDED TO PREVENT RADIATION OR THERMAL BURNS.

Work Hygienic Practices:USE GOOD INDUSTRIAL HYGIENE PRACTICE. WASH AFTER USING THE PRODUCT AND BEFORE EATING, DRINKING, ETC.

Supplemental Safety and Health NONE

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

HCC:N1

Spec Gravity:SOLID

Solubility in Water:NEGLIGIBLE

Appearance and Odor:3/64 IN WIRE ON A SPOOL, GREY TO SILVER IN COLOR

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS, MINERAL ACIDS

Stability Condition to Avoid:NO INFORMATION GIVEN ON MSDS BY SUPPLIER

Hazardous Decomposition Products:VARIOUS METAL OXIDES AND ELEMENTALMETALS MAY BE GENERATED FROM MELTING OR DROSS HANDLING OPERATIONS.

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

Waste Dispo

sal Methods:DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL REGULATIONS. PLACE IN CONTAINER ANDDISPOSE IN AN ENVIRONMENTALLY ACCEPTABLE MANNER.

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