View NSN Online: https://aerobasegroup.com/nsn/3439-00-803-9500

NATIONAL WELDING ALLOYS, INC. -- ALUMINUM & MAGNESIUM BARE WELDING WIRE 5556 -- 3439-00-803-9500

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

Product ID:ALUMINUM & MAGNESIUM BARE WELDING WIRE 5556

MSDS Date:08/01/1990

FSC:3439

NIIN:00-803-9500

MSDS Number: BWDYJ === 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, CHEMTREC 800-424-9300

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

======= Composition/Information on Ingredients ========

Ingred Name: SILICON (SIO2 AMPHOROUS RESPIRABLE)

CAS:60676-86-0 RTECS #:VV7328000 Fraction by Wt: 0.25%

Other REC Limits: NONE RECOMMENDED

OSHA

PEL:10 MG/M3 RDUST; Z-3 ACGIH TLV:0.1 MG/M3 RDUST;9394

Ingred Name: IRON OXIDE

CAS:1309-37-1

RTECS #:NO7400000 Fraction by Wt: 0.40%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:10 MG/M3 (FE)

ACGIH TLV:5MG(FE)/M3FUME,B2;94

Ingred Name: COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000 Fraction by Wt: 0.10%

Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH TLV:0.2 MG/M3 FUME; 9394

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: MANGANESE (SARA III)

CAS:7439-96-5

RTECS

#:OO9275000

Fraction by Wt: .5-1.00%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:C 5 MG/M3

ACGIH TLV:5 MG/M3, DUST; 9394

Ingred Name:MAGNESIUM

CAS:7439-95-4

RTECS #:OM2100000 Fraction by Wt: 4.7-5.5%

Other REC Limits: NONE RECOMMENDED

Ingred Name:ZINC (SARA III)

CAS:7440-66-6

RTECS #:ZG8600000 Fraction by Wt: 0.25%

Other REC Limits: NONE RECOMMENDED

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:TITANIUM ALLOY

Fraction by Wt: .05-.20%

Other REC Limits: NONE RECOMMENDED

Ingred Name: ALUMIN

UM (SARA III) CAS:7429-90-5

RTECS #:BD0330000 Fraction by Wt: BALANCE

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15MG/M3 DUST/5 FUME ACGIH TLV:10MG/M3 DUST; 9394

Ingred Name:ZIRCONIUM

CAS:7440-67-7

RTECS #:ZH7070000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:5 MG/M3

ACGIH TLV:5 MG/M3/10 STEL;9394

Ingred Name:NICKEL

CAS:7440-02-0

RTECS #:QR5950000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3

Ingred Name: CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by W t: .05-.20%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9394

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

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

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

Health Hazards Acute and Chronic:WELDING ELECTRODES NON-HAZ SOLID @AMB

TEMP.WELDING GENERATES FUME/GAS/ELECTROMAGNETIC RADIATION W/KNONW

ADVERSE HEALTH EFFECTS.DISCOMFORT,DIZZ,NAU,THRO

ΑT

DRYNESS/IRRIT.PULM IRRIT,PNEUMOCONIOSIS.SIDERO SIS.BURNS FROM ELECTROMAGNETIC RADIATION.

Explanation of Carcinogenicity:PER MSDS:NICKEL & CHROMIUM SHOULD BE CONSIDERED A POSSIBLE CARCINOGEN PER OSHA 29CFR1910.1200.HEXAVALENT CR REPORTED CAR

Effects of Overexposure:DISCOMFORT, DIZZINESS, NAUSAU, THROAT DYRNESS & IRRITATION, PULMONAYR IRRITATION, PNEUMOCONIOSIS, SIDEROSIS.

Medical Cond Aggravated by Exposure:INDIVIDUALS W/IMPAIRED PULMONARY FUNCTION OR ILLNESS MAY HAVE S

YMPTOMS EXACERBATED BY IRRITANTS CONTAINED IN WELDING FUMES.

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

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

Flash Point:NONE Lower Limits:NONE Upper Limits:NONE

Extinguishing Media:THIS ALLOY IS NON-COMBUSTIBLE. USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUND

ING FIRE.

Fire Fighting Procedures:IF MATL REDUCED TO POWDER FORM CAUTION MUST BE USED TO PREVENT FIRE/EXPLO.TO EXT METAL POWDER FIRE USE DRY SAND,DRY GRAPHITE OR OTHER CLASS D FIRE EXT POWDER.

Unusual Fire/Explosion Hazard:NO UNUSUAL FIRE/EXPLO HAZ ARE ASSOCIATED W/MATL.

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

Handling and Storage Precautions:READ/UNDERSTAND MFG'S INSTRUCTIONS/PRECAUT LABEL ON PROD.SEE AMER NAT STD Z49.1"SAFETY IN WELDING/CUTTIN

G" FROM AMER WELD SOC, POB351040, MIA, FL351040.

Other Precautions:SE ALSO OSHA PUBLICATION 2205(29CFR1910) FROM US GOVT PRINT OFC,WASHINGTON,DC20402.COMPOSITION OF WELDING EMISSIONS VAR SUBSTANTIALLY W/WELDING PROCESS.ACTUAL EXPO SHOULD BE DETERMINED BY MONITORING F UME IN OPERATOR'S BREAHTING ZONE.

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

Respiratory Protection:USE RESPIRABLE FUME RESP OR AIR SUPPLIED RESP WHEN WELDING,BRAZING,SOLDERING IN CONFINED SPA

CE OR SHWERE LOCAL

EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW PEL, TLV OR STEL.

Ventilation: USE ENOUGH VENTI, LOC EXHA @ARC(FLAME)/BOTH TO KEEP FUME/GAS BELOW PEL/TLV/STEL IN WORKER BREATHZONE & GEN AREA.

Protective Gloves: WELDER'S GLOVE

Eye Protection: HELMET, FACESHIELD W/FIL LENS W/APPROP #.

Other Protective Equipment: PROT SCREENS, FLASH GOGGLES TO SHIELD

OTHERS.SEE ANSI/ASC Z49.1SEC4.2.HEAD/BODY FROM

RADIAT/SPARKS/FLAM/ELECT SHOCK

Work Hygienic Practices: TRAIN EMPLOY

EE TO KEEP HIS HEAD OUT OF FUMES &

NOT TO TOUCH LIVE ELECTRICAL PARTS/INSULATE.SEE ANSI/ASC Z49.1SEC5.

Supplemental Safety and Health

WELDERS SHOULD NOT WEAR SHORT SLEEVE SHIRTS, SHORT PANTS OR CUTOFFS.USE EXHAUST SYSTEM TO CLEAR WELDING FUMES. MAKE SURE THAT INHALED AIR DOES NOT CONTAIN FUME CONSTITUENTS ABOVE PERMISSABLE LEVELS.

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT W/MINERAL ACIDS & OXIDIZING AGENTS WHICH MAY GENERATE HYDROGEN GAS; EVOLUTION OF HYDROGEN MAY BE EXPLO HAZ.

Stability Condition to Avoid: NONE SPECIFIED BY MFG.

Hazardous Decomposition Products: VAR ELEMENTAL METALS & METAL OXIDES MAY BE GENERATED FROM MELTING/GROSS HANDLING OPERATIONS.

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

Waste Disposal Methods:

PREVENT WASTE FROM CONTAMINATING SURROUNIDNG
ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR
LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE
WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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.