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NATIONAL WELDING ALLOYS, INC. -- ALUMINUM & MAGNESIUM BARE WELDING WIRE 5554 --3439-00-803-9499

Product ID:ALUMINUM & MAGNESIUM BARE WELDING WIRE 5554 MSDS Date:08/01/1990 FSC:3439 NIIN:00-803-9499 MSDS Number: BWDYH === 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 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 Qtv:5000 LBS

: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: 2.4-3.0% 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:ALUMINU M (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 Wt : .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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES 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,THROA T

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 SY MPTOMS 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.

Flash Point:NONE Lower Limits:NONE Upper Limits:NONE Extinguishing Media:THIS ALLOY IS NON-COMBUSTIBLE. USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDI NG 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 Precautions:READ/UNDERSTAND MFG'S INSTRUCTIONS/PRECAUT LABEL ON PROD.SEE AMER NAT STD Z49.1"SAFETY IN WELDING/CUTTING " 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 SPAC E 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 EMPLOYE

E 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.

HCC:N1

Appearance and Odor:SOLID WIRE OR ROD, GREY TO SILVER IN COLOR.

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.

Waste Disposal Methods:P

REVENT 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.

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