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NATIONAL WELDING ALLOYS, INC. -- 5356 ALUMINUM -- 3439-01-012-6661

Product ID:5356 ALUMINUM MSDS Date:11/10/1986 FSC:3439 NIIN:01-012-6661 MSDS Number: BGWFM === 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

Ingred Name:ALUMINUM (SARA III) CAS:7429-90-5 RTECS #:BD0330000 Fraction by Wt: 93-94% Other REC Limits:NONE OSHA PEL:15MG/M3 DUST/5 FUME ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:MAGNESIUM CAS:7439-95-4 RTECS #:OM2100000 Ot her REC Limits:NONE

Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500 Fraction by Wt: 0.4% Other REC Limits:NONE OSHA PEL:10MG/M*3(FE*20*3) ACGIH TLV:15MG/M*3(FE*20*3)

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 Fraction by Wt: 0.25% Other REC Limits:NONE OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:TITANIUM CAS:7440-32-6 RTECS #:XR1700000 Fraction by Wt: .06-20% Other REC Limits:NONE OSHA PEL:10MG/M*3(TIO*2) ACGIH TLV:10MG/M*3(TIO*2)

Ingred Name:CHROMIUM (SARA III) CAS:7440-47-3 RTECS #:GB4200000 Fraction by Wt: .05-.20% Other REC Limits:NONE OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3; 9192 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

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

Ingred Name:COPPER (SARA III) CAS:7440-50-8 RTECS #:GL5325000 Fraction by Wt: 0.1% Other REC Limits:NONE 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:ZINC (SARA III) CAS:7440-66-6 RTECS #:ZG8600000 Fraction by Wt: 0.1% Other REC Limits:NONE OSHA PEL:10 MG ZNO/M3 ACGIH TLV:10 MG ZNO/M3: 9192 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ingred Name:OTHER TOTAL Fraction by Wt: 0.15% Other REC Limits:NONE Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:ACUT E:METALLIC TASTE, NAUSEA, TIGHTNESS OF CHEST, FEVER, DIZZINESS, DRYNESS, IRRITATION OF EYES, NOSE, THROAT. CHRONIC: EXCESSIVE LEVELS MAY CAUSE BRONCHIAL ASTHMA, LUNG FIBROSIS, PNEUMOCONIOSIS. Explanation of Carcinogenicity: CHROMIUM IS LISTED UNDER NTP AND IARC. Effects of Overexposure: METALLIC TASTE, NAUSEA, TIGHTNESS OF CHEST, FEVER, DIZZINESS, DRYNESS, IRRITATION OF EYES, NOSE AND THROAT. Medical Cond Aggravated by Exposure: AGGRAVATION OF EXISTING RESPIRATORY **OR ALLERGIC CONDITIONS.HI** GHER LEVEL OF LUNG RELATED PROBLEMS AMONG SMOKERS.

First Aid:REMOVE FROM EXPOSURE AND OBTAIN PROMPT MEDICAL ATTENTION. IF NOT BREATHING, GIVE CPR.IF UNCONSCIOUS, GIVE OXYGEN. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY AMERICAN RED CROSS.

Flash Point:NONE Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures:FIRE

FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE. Unusual Fire/Explosion Hazard:WELDING ARCS AND SPARKS CAN IGNITE COMBUTIBLE PRODUCTS. Spill Release Procedures: CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE AND PLACE IN APPROPRIATE DOT APPROVED DISPOSAL CONTAINER. ================= Handling and Storage _____ Other Precautions: TRAIN WELDER TO KEEP HIS OUT OF THE FUMES. MONITOR AIR TO ENSURE ACCEPTABLE EXPOSURES. AVOID ELECTRICAL SHOCK BY MAINTAINING DRY WORK AREA. Respiratory Protection: FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR IN CONFINED SPACES OR WHERE VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV. Ventilation:LOCAL EXHAUST TO MAINTAIN BELOW TLV. Protective Gloves:WELDER'S GLOVES. Eye Pr otection:HELMET OR FACE SHIELD WITH FILTER LENS. Other Protective Equipment: SUBSTANTIAL DARK CLOTH, ARM PROTECTOR, APRON, HAT, SHOULDER PROTECTION. Work Hygienic Practices: WASH HANDS THOROUGHLY BEFORE EATING, SMOKE, USING SANITARY FACILITIES. Supplemental Safety and Health NONE.

HCC:N1 Solubility in Water:INSOLUBLE Appearance and Odor:WELDING ROD.NO ODOR.

Stability Indicator/Materials to Avoid:YES Hazardous Decomposition Products:FUMES OF METALS AND METALS OXIDES,CO.NO*2,O*3.

Waste Disposal Methods:DISPOSE OF FUMES,FLUX OR WELD GRINDING RESIDUE FROM THE WORK AREA OR FROM FILTERS IAW ALL APPLICABLE FEDERAL,STATE AND LOCAL REGULATIONS.

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