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ALL-STATE WELDING PRODUCTS INC. -- 5356,BARE ALUMINUM WELDING WIRE 3439-01-012-3285

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

Product ID:5356,BARE ALUMINUM WELDING WIRE

MSDS Date:04/16/1991

FSC:3439

NIIN:01-012-3285

MSDS Number: BMDTN === Responsible Party ===

Company Name: ALL-STATE WELDING PRODUCTS INC.

Address:5112 ALLENDALE LN

Box:600

City:TANEYTOWN

State:MD ZIP:21787 Country:US

Info Phone Num:800 -638-1647/717-637-8911

Emergency Phone Num:800-638-1647/717-637-8911

CAGE:69482

=== Contractor Identification ===

Company Name: ALL-STATE PRODUCTS/ DIV OF ESAB GROUP, INC

Address:5112 ALLENDALE ST

Box:600

City:TANEYTOWN

State:MD ZIP:21787 Country:US

Phone:1-410-756-4330

CAGE:69482

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

Ingred Name: SILICON

CAS:7440-21-3

RTECS #: VW0400000

Other REC Limits: NONE SPECIFIED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Na

me:IRON
CAS:7439-89-6
RTECS #:NO4565500
Other REC Limits:NONE SPECIFIED
OSHA PEL:10 MG/M3 (MFR)
ACGIH TLV:5 MG/M3 (MFR)

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
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:MANGANESE (SARA III) CAS:7439-96-5 RTECS #:OO9275000 Other REC Limits:NONE SPECIFIED OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:ZINC OXIDE CAS:1 314-13-2 RTECS #:ZH4810000 Other REC Limits:NONE SPECIFIED OSHA PEL:15MG/M3 TDUST/5 FUME ACGIH TLV:10MG/M3 TDUST; 9293

Ingred Name:MAGNESIUM CAS:7439-95-4 RTECS #:OM2100000 Other REC Limits:NONE SPECIFIED

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

Ingred Name:TITANIUM, METAL CAS:7440-32-6 RTECS #:XR1700000 Other REC Limits:NONE SPECIFIED OSHA PEL:10 MG/M3 (MFR) AC GIH TLV:10 MG/M3 (MFR)

Ingred Name: ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000

Other REC Limits:NONE SPECIFIED OSHA PEL:15MG/M3 DUST/5 FUME ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name: COBALT (SARA III)

CAS:7440-48-4

RTECS #:GF8750000

Other REC Limits: NONE SPECIFIED

OSHA PEL:0.1 MG/M3;AS CO

ACGIH TLV:0.05 MG/M3;DUST 9293

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

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

Reports of Carcinogenicity:NTP:YES IARC

:YES OSHA:NO

Health Hazards Acute and Chronic: ACUTE-FUMES CAN CAUSE

IRRITATION, DIZZINESS, WATERY EYES, HEADACHE, NAUSEA, BREATHING DIFFICULTY, COUGHING, CHEST PAINS. COPPER FUMES MAY CAUSE METAL FUME FEVER WHICH MAY INCLUDE FEVER, BODY ACHE, CHILLS. ARC RA YS CAN INJURE EYES & BURN SKIN. ELECTRICSHOCK CAN KILL. IR RADIATION CAN INJURE EYES. CHRONIC-SIDEROSIS/LUNG DISEASES.

Explanation of Carcinogenicity: CONTAINS CHROMIUM.

Effects of Overexposure:FUMES CAN CAUSE IRRITATION, DIZZINESS, WATERY

EYES, HEADACHE, NAUSEA, BREATHING DIFFICULTY, COUGHING, CHEST PAINS. COPPER FUMES MAY CAUSE METAL FUME FEVER WHICH MAY INCLUDE FEVER, BODY ACHE, CHILLS. A RC RAYS CAN INJURE EYES & BURN SKIN. ELECTRIC SHOCK CAN KILL. IR RADIATION CAN INJURE EYES.

Medical Cond Aggravated by Exposure:PERSONS WITH IMPAIRED PULMONARY FUNCTION, AIRWAY DISEASES AND CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, CHRONIC BRONCHITIS, ETC... CAN BE AGGRAVATED BY THE EXPOSURE.

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

First Aid:GET MEDICAL ATTENTION IN ALL CASES.INHALED:REMOVE TO FRESH AIR.PROVIDE CPR/OXYGEN IF NECESSARY.EYES:FLUSH WITH WATER FOR 15 MINUTES HOLDING EYELIDS OPEN.SKIN:WASH WITH SOAP & WATER.ORAL:GET MEDICAL HE LP.

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

Flash Point: NONFLAMMABLE

Extinguishing Media:CLASS "D" DRY CHEMICAL. DO NOT USE WATER. WATER MAY REACT WITH BURNING ALUMINUM VIOLENTLY.

Fire Fighting Pro

FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE. Unusual Fire/Explosion Hazard:MOLTEN METAL ALLOYS MAY EXPLODE ON CONTACT WITH WATER. RUST AND CERTAIN METAL OXIDES (OXIDES OF COPPER,IRON) MAY ALSO REACT VIOLENTLY WITH WATER.
========== Accidental Release Measures ==========
Spill Release Procedures:IN SOLID FORM THIS MATERIAL POSES NO SPECIAL CLEAN-UP PRO BLEMS. Neutralizing Agent:NOT APPLICABLE.
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Handling and Storage Precautions:STORAGE-STORE IN A COOL,DRY,WELL VENTILATED AREA AWAY FROM MOISTURE,ACIDS & FLAMES. Other Precautions:AVOID BREATHING OF FUMES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING AND DRINKING.
====== Exposure Controls/Personal Protection =======
Respiratory Protection:USE NIOSH/MSHA APPROVED SUPP LIED AIR RESPIRATORY PROTECTION OR RESPIRABLE FUME RESPIRATOR WHEN WELDING, BRAZING OR SOLDERING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOS URE BELOW TLV. Ventilation:LOCAL EXHAUST VENTILATION SHOULD BE USED TO CONTROL EXPOSURE TO AIRBORNE FUMES WHENEVER POSSIBLE. Protective Gloves:FLAME-PROOF WELDING GLOVES Eye Protection:SAFETY GLASSES UNDER WELDING HELMET Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER, WORK CLOTHING AND APRON AS REQUIRED. Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING. Supplemental Safety and Health FORMULA CHANGED. FOR PREVIOUS FORMULATION, SEE P/N A UNDER THE SAME NSN.
========== Physical/Chemical Properties ==========
HCC:N1 Solubility in Water:INSOLUBLE Appearance and Odor:SOLID WIRE - ODORLESS
======== Stability and Reactivity Data =========
Stability Indicator/Materi

NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL

cedures:WEAR FULL PROTECTIVE CLOTHING AND

als to Avoid:YES STRONG ACIDS

Stability Condition to Avoid:FLAMES

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE, OZONE AND NITROGEN OXIDES MAY BE FORMED BY THE RADIATION FROM THE ARC DURING WELDING.

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

Waste Disposal Methods:PRIOR TO DISPOSAL, CONSIDER IF MATERIAL HAS RECOVERY VALUE. DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. PREVENT WASTE FROM CONTAMINATING ENVIRONM ENT.

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