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ALLOY RODS CORPORATION -- ATOM ARC COVERED LOW HYDROGEN ELECTRODE 3439-01-043-0241

Product ID:ATOM ARC COVERED LOW HYDROGEN ELECTRODE MSDS Date:04/04/1988 FSC:3439 NIIN:01-043-0241 MSDS Number: BSFJX === Responsible Party === Company Name:ALLOY RODS CORPORATION Address:WILSON AVENUE Box:517 City:HANOVER State:PA ZIP:17331 Country:US Info Phone Num:717-637-8911 Emergency Phone Num:717-637-8911

CAGE:84021 === Contractor Identification === Company Name:ESAB GROUP INC Address:801 WILSON AVENUE Box:517 City:HANOVER State:PA ZIP:17331 Country:US Phone:717-637-8911 OR 800-933-7070 CAGE:84021

Ingred Name:IRON CAS:7439-86-6 RTECS #:NO6925000 Other REC Limits:NONE RECOMMENDED

Ingred Name:CHROMIUM (SARA III) CAS:7440-47-3 RTECS #:GB4200000 Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3; 9293 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 Other REC Limits:NONE RECOMMENDED OSHA PEL:10 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:COPPER (SARA III) CAS:7440-50-8 RTECS #:GL5325000 Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH TLV:0.2MG/M3 FUME; 9293 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:SODIUM METASILICATE, ANHYDROUS CAS:6834-92-0 RTECS #:VV9275000 Other REC Limits:NONE RECOMMENDED OSHA PEL:2 MG/M3 8HR ACGIH TLV:C; 2 MG.M3

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE) CAS:1317-65-3 RTECS #:EV9580000 Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:TITANIUM DIOXIDE CAS:13463-67-7 RTECS #:XR2275000 Other REC Limits:NONE RECOMMENDED OSHA PEL:10 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

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

Ingred Name:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9293

Ingred Name:MOLYBDENUM CAS:7439-98-7 RTECS #:QA4680000 Other REC Limits:NONE RECOMMENDED OSHA PEL:10 MG/M3 TDUST ACGIH TLV:10 MG/M3; 9293

Ingred Name:POTASSIUM SILICATE CAS:1312-76-1 Other REC Limits:NONE RECOMMENDED

Ingred Name:CALCIUM FLUORIDE CAS:7789-75-5 RTECS #:EW1760000 Other REC Limits:NONE RECOMMENDED OSHA PEL:2.5 MG /M3 AS F ACGIH TLV:2.5 MG/M3 AS F

Ingred Name:POTASSIUM ALUMINUM SILICATE (FELDSPAR) CAS:68476-25-5 Other REC Limits:NONE RECOMMENDED ACGIH TLV:2 MG/M3

Ingred Name:ZIRCONIUM SILICATE Other REC Limits:NONE RECOMMENDED

LD50 LC50 Mixture:TLV: 5 MG/M3 WELDING FUME Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:FUMES AND GASES CAN B

E DANGEROUS TO YOUR HEALTH. ACUTE: OVEREXPOSURE TO WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS IRRITATION OF NOSE, THROAT OR EYES. CHRONIC: OVEREXPOSURE MAY LEAD TO SIDEROSIS (IRON DEPOSITS IN THE LUNG) AND IS BELIEVED BY SOME INVESTIGATORS TO AFFECT PULMONARY FUNCTION. Explanation of Carcinogenicity:CHROMIUM & NICKEL ARE BOTH REGULATED BY
NTP & IARC. CHROMIUM IS REGULATED BY OSHA.
Effects of Overexposure:OVEREXPOSURE TO WELDING FUME MAY RESULT IN
DIZZINESS, NAUSEA, O
R DRYNESS. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.
Medical Cond Aggravated by Exposure:AGGRAVATION OF PREEXISTING
RESPIRATORY OR ALLERGIC CONDTIONS MAY OCCUR IN SOME WORKERS.
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First Aid:CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.
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Extinguishing Media:NONE SPECIFIED BY MANUFACTU RER.
Fire Fighting Procedures:NONFLAMMABLE. Unusual Fire/Explosion Hazard:WELDING ARC & SPARKS CAN IGNITE COMBUSTIBLES. SEE Z-49.1 REFERENCED IN SECTION VII.
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Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER. Other Precautions:TRAIN THE WELDER NOT TO TOUCH LIVE ELECTRICAL PARTS AND TO INSULATE HIMSELF FROM WORK AND GROUND.
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Respiratory P rotection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN HANDLING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV. Ventilation:USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC, OR BOTH,
TO KEEP THE FUMES AND GASES BELOW THE TLV'S IN BREATHING ZONE
Protective Gloves:WELDERS GLOVES. Eye Protection:WEAR HELMET/FACESHIELD WITH FILTER LENS.
Other Protective Equipment:WEAR HEAD, HAND & BODY PROTECTION WHICH HELP TO PREVENT INJURY

HCC:N1

Appearance and Odor: ATOM ARC COVERED LOW HYDROGEN ELECTRODES.

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Stability Indicator/Materials to Avoid:YES NONE SPECIFIED BY MANUFACTURER. Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER. Hazardous Decomposition Products:WELDING FUMES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION ARE BASED ON THE METAL, PROCESS, PROCEDURE & ELECTROD USED.

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONM

ENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER, OR LINER IN AN ENVIRNMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE AN D LOCAL REGULATION.

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