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Product ID:ATON ARC COVERED LOW HYDROGEN ELECTRODES MSDS Date:01/01/1987 FSC:3439 NIIN:00-587-2413 MSDS Number: BMDRY === Responsible Party === Company Name: ALLOY RODS CORPORATION Address:1500 KAREN LN. Box:517 **City:HANOVER** State:PA ZIP:17331 Country:US Info Phone Num:717-637-8 911 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:7439-89-6 RTECS #:NO4565500 Other REC Limits:NONE SPECIFIED OSHA PEL:10MG/M3 ACGIH TLV:5 MG/M3 AS FE2O3

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

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 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:SODIUM METASILICATE, ANHYDROUS CAS:6834-92-0

RTECS #:VV9275000 Other REC Limits:NONE SPECIFIED

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE) CAS:1317-65-3 RTECS #:EV9580000 Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name:TITANIUM DIOXIDE CAS:13463-67-7 RTECS #:XR2275000 Other REC Limits:NONE SPECIFIED OSHA PEL:15 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 SPECIFIED OSHA PEL:(C) 5 MG/M3 DUST ACG IH TLV:5 MG/M3 DUST 9293

Ingred Name:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Other REC Limits:NONE SPECIFIED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9192

Ingred Name:MOLYBDENUM CAS:7439-98-7 RTECS #:QA4680000 Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3; 9293

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

Ingred Name:CALCIUM FLUORIDE CAS:7789-75-5 RTECS #:EW1760000 Other REC Limits:NONE SPECIFIED 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 SPECIFIED ACGIH TLV:2 MG/M3

Ingred Name:ZIRCONIUM(IV) SILICATE CAS:14940-68-2 RTECS #:ZH9000000 Other REC Limits:NONE SPECIFIED OSHA PEL:5MG/M3 AS ZR ACGIH TLV:5MG/M3 AS ZR

LD50 LC50 Mixture:UNCLASSIFIED WELDING FUMES=5MG/M3 PEL Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ACUTE: WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS: DIZZINESS, NAUSEA, OR DRYNESS AND IRRITATION OF NOSE, THROAT, OR EYES. CHRONIC: MAY LEAD TO SIDEROSIS (IRON DEPOSITS IN THE LUNG) AND IS BELIEVED TO AFFECT PULMONARY FUNCTIONS. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.

Explanation of Carcinogenicity:WELDING FUMES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION ARE DEPENDENT UPON THE METAL B

EING WELDED.

Effects of Overexposure:OVEREXPOSURE TO WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS: DIZZINESS, NAUSEA, OR DRYNESS AND IRRITATION OF NOSE, THROAT, OR EYES. LONG TERM OVEREXPOSURE MAY LEAD TO SIDEROSIS (IRON DEPOSITS IN TH E LUNGS) AND IS BELIVED TO AFFECT PULMONARY FUNCTIONS.

Medical Cond Aggravated by Exposure: AGGRAVATION OF PREEXISTING RESPIRATORY OR ALLERGIC CONDITIONS MAY OCCUR IN SOME WORKERS.

First Aid:CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY P RODUCE

HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

Spill Release Procedures: THE MANUFACTURER STATES THAT THESE PROCEDURES ARE NOT APPLICABLE.

Handling and Storage Precautions: THESE PRODUCTS AS SHIPPED ARE NONHAZARDOUS, NONFLAMMABLE, NONEXPLOSIVE, AND NONREACTIVE. WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLES. Other Precautions: PROVIDE PROTE CTIVE SCREENS TO SHIELD OTHERS. WHEN ELECTRODES AND FLUXES ARE CONSUMED, THE FUME AND GAS DECOMPOSITION PRODUCTS GENERATED ARE DIFFERENT IN FORM FROM THE INGREDIENTS LISTED. NEW COMPOUNDS NOT IN THE ELECTRODES MAY FORM.

Respiratory Protection: USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Venti

lation:USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC, OR BOTH TO KEEP THE FUMES AND GASES BELOW THE TLV IN THE WORKING AREA. Protective Gloves:WELDERS LEATHER GLOVES

Eye Protection: USE FACE SHIELD WITH FILTER LENS.

Other Protective Equipment:WEAR HEAD, HANDS AND BODY PROTECTION WHICH TO PREVENT INJURY FROM RADIATION, SPARKS AND ELECTRICAL SHOCK.

Work Hygienic Practices: WASH THOROUGHLY BEFORE EATING OR SMOKING.

LAUNDER CONTAMINATIED CLOTHING BEFORE REUSE.

Supplemental Safety and He

alth

WELDING AND HOT CUTTING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY ARE DEPENDENT ON THE METAL BEING WELDED, THE PROCEDURES, PROCESSES AND THE TYPE OF WIRE OR ELECTRODES USED. OTHER INFLUENCING FACTORS ARE THEPRESENCE OF CONTAMINANTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES.

HCC:N1

Appearance and Odor:NOT STATED BY MANUFACTURER.

======== Stability and Rea

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Hazardous Decomposition Products:WELDING AND CUTTING OPERATION MAY INCLUDE OXIDES OF THE METALS, CHROMATES, FLUORIDES, COMPLEX METALLICS, AND OZONE.

Waste Disposal Methods:CONSULT YOUR LOCAL ENVIRONMENTAL OFFICER. PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER, OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER IN FULL COMPLIANCE WITH REGULATIONS.

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