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ALLOY RODS CORPORATION -- 8019 ARC COVERED LOW HYDROGEN ELECTRODES - 3439-00-853-2716

Product ID:8019 ARC COVERED LOW HYDROGEN ELECTRODES MSDS Date:04/04/1988 FSC:3439 NIIN:00-853-2716 **MSDS Number: BFSTN** === Responsible Party === Company Name: ALLOY RODS CORPORATION Address:WILSON AVENUE Box:517 **City:HANOVER** State:PA ZIP:17331 Country:US Info Phone Num:717-637-89 11 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:5MG/M*3 OSHA PEL:10MG/M*3 ACGIH TLV:5MG/M*3

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 Other REC Limits:10MG/M*3 OSHA PEL :15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:SODIUM SILICATE CAS:6834-92-0 RTECS #:VV9275000 OSHA PEL:5MG/M*3 (RESP. DUST) ACGIH TLV:0.1MG/M*3(RESP.DUST)

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE) CAS:1317-65-3 RTECS #:EV9580000 Other REC Limits:10MG/M*3 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:10MG/M*3 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:5MG/M*3 (C) OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9192

Ingred Name:POTASSIUM SILICATE CAS:1312-76-1 OSHA PEL:5MG/M*3 (RESP.DUST) ACGIH TLV:0.1MG/M*3(RESP.DUST)

Ingred Name:CALCIUM FLUORIDE CAS:7789-75-5 RTECS #:EW1760000 Other REC Limits:2.5MG/M*3 OSHA PEL:2.5 MG/M3 (F) ACGIH TLV:2.5 MG/M3 (F); 8990

Ingred Name:POTASS

IUM FELDSPAR Other REC Limits:10MG/M*3(NUISANCE) OSHA PEL:NOT LISTED ACGIH TLV:NOT LISTED

Ingred Name:ZIRCON (ZIRCONIUM IV,SILICATE) CAS:14940-68-2 RTECS #:ZH9000000 Other REC Limits:5 MG/M*3 OSHA PEL:5 MG/M3/10 STEL (ZR) ACGIH TLV:5 MG/M3/10 STEL (ZR)

Ingred Name:MOLYBDENUM CAS:7439-98-7 RTECS #:QA4680000 Other REC Limits:5MG/M*3 OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3; 9293

LD50 LC50 Mixture:TLV FOR WELDING FUMES IS 5 MG/M3 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 BE DANGEROUS TO HEALTH. SHORT TERM EXPOSURE MAY CAUSE DIZZINESS, NAUSEA, DRYNESS OR IRRITATION OF NOSE, THROAT OR EYES. LONG TERM EXPOSURE MAY LEAD TO SIDEROSIS. ARC RAYS CAN INJUR E EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL. Explanation of Carcinogenicity:CONTAINS NICKEL WHICH IS LISTED BY NTP AND IARC AS

A POSSIBLE CARCINOGEN.

Effects of Overexposure:DIZZINESS, NAUSEA, DRYNESS/IRRITATION OF NOSE, THROAT OR EYES, EYE INJURY, SKIN BURNS.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. GET M EDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. FLUS H WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL ADVICE. INGESTION: GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET MEDICAL ATTENTION.

Flash Point:NONFLAMMABLE Lower Limits:NOT GIVEN Upper Limits:NOT GIVEN Extinguishing Media:NONFLAMMABLE. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures: NONFLAMMABLE AS SHIPPED. DURING USE, WELDING А RCS AND SPARKS CAN IGNITE COMBUSTIBLES. Unusual Fire/Explosion Hazard: DECOMPOSITION FUMES MAY BE TOXIC. Spill Release Procedures: PRODUCT IS NONHAZARDOUS AS SHIPPED/STORED. NO SPECIFIC CLEANUP PROCEDURES REQUIRED. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER. Handling and Storage Precautions: PRODUCT IS NONHAZARDOUS AS SHIPPED/STORED. Other Precau tions:NONE SPECIFIED BY MANUFACTURER. Respiratory Protection: USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WEELDING 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 IN BREATHING ZONE. Protective Gloves:WELDER'S GLOVES Eve Protection: HELMET OR FACE SHIELD WITH FILTER LENS Other Protective Equipment: HEAD, HAND AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION, SPARKS AND ELECTRICAL SHOCK. Work Hygienic Practices: WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING DRINKING OR SMOKING. Supplemental Safety and Health WELDING FUMES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY ARE DEPENDENT UPON THE METAL BEING WELDED, THE PROCESS, PROCEDURES AND ELECTRODES USED. WHEN THE ELECTRODE IS CO

NSUMED, THE

FU ME AND GAS DECOMPOSITION PRODUCTS ARE DIFFERENT IN PERCENT AND FORM FROM THE INGREDIENTS.

HCC:N1 Boiling Pt:B.P. Text:NOT GIVEN Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Vapor Pres:NOT GIVEN Vapor Density:NOT GIVEN Spec Gravity:NOT GIVEN Evaporation Rate & amp; Reference:NONE Solubility in Water:NIL Appearance and Odor:NONE SPECIFIED BY MANUFACTURER. Percent Volatiles by Volume:NIL

====== Stabil

ity and Reactivity Data ==============

Stability Indicator/Materials to Avoid:YES NONE SPECIFIED BY MANUFACTURER. Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER. Hazardous Decomposition Products:LIKELY TO FORM FLUORIDES, COMPLEX OXIDES OF IRON, MANGANESE, SILICON, NICKEL, CARBON MONOXIDE, CARBON DIOXIDE, OZONE

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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