

ALLOY RODS CORPORATION -- MILD STEEL COVERED ELECTRODES,E 5010 -- 3439-00-262-2670

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Product Identification
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Product ID:MILD STEEL COVERED ELECTRODES,E 5010

MSDS Date:10/03/1989

FSC:3439

NIIN:00-262-2670

MSDS Number: BMGXD

=== 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

Emer

gency 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

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Composition/Information on Ingredients
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Ingred Name:IRON

CAS:7439-86-6

RTECS #:NO6925000

Other REC Limits:NONE SPECIFIED

OSHA PEL:10 MG/M3 (MFR)

ACGIH TLV:5 MG/M3 (MFR)

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: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:ZIRCONIUM SILICATE
Other REC Limits:NONE SPECIFIED
OSHA PEL:NOT ESTABLISHED.
ACGIH TLV:NOT ESTABLISHED.

Ingred Name:SODIUM METASILICATE
CAS:6834-92-0
RTECS #:VV9275000
Other REC Limits:NONE SPECIFIED

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMES
TONE)
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
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Other RE

C 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 (MFR)
ACGIH TLV:2.5 MG/M3 AS F (MFR)

Ingred Name:POTASSIUM ALUMINUM SILICATE (FELDSPAR)
CAS:68476-25-5
Other REC Limits:NONE SPECIFIED

Ingred Name:ZIRCONIUM DIOXIDE/ZIRCONIUM SILICATE
CAS:7440-67-7
RTECS #:ZH7070000
Other REC Limits:NONE SPECIFIED
OSHA PEL:5 MG/M3 (MFR)
ACGIH TLV:5 MG/M3 (MFR)

Ingred Name:POTASSIUM TITANATE
CAS:12030-97-6
Other REC Limits:NONE SPECIFIED

Ingred Name:MAGNESITE/MAGNESIUM CARBONATE
CAS:546-93-0
RTECS #:OM2470000
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name:ALPHA-ALUMINA (ALUMINUM OXIDE) (EPA LISTS ONLY FIBR

OUS
FORMS) (SARA III)

CAS:1344-28-1

RTECS #:BD1200000

Other REC Limits:NONE SPECIFIED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:MAGNESIUM OXIDE

CAS:1309-48-4

RTECS #:OM3850000

Other REC Limits:NONE SPECIFIED

OSHA PEL:15 MG/M3 PARTICULATE

ACGIH TLV:10 MG/M3;TDUST; 9293

Ingred Name:CELLULOSE (PAPER FIBER)

CAS:9004-34-6

RTECS #:FJ5691460

Other REC Limits:NONE SPECIFIED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3; 9192

Ingred Name:BENTONITE(INORGANIC CLAY)

CAS:1302-78

-9

RTECS #:CT9450000

Other REC Limits:NONE SPECIFIED

OSHA PEL:5 MG/M3 (DUST)

ACGIH TLV:5 MG/M3 (DUST)

Ingred Name:MICA - SILICATES (< 1% CRYSTALLINE SILICA)

CAS:12001-26-2

RTECS #:VV8760000

Other REC Limits:NONE SPECIFIED

OSHA PEL:20 MPPCF

ACGIH TLV:3 MG/M3 RDUST; 9293

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===== 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-EYES/S

KIN:ARC RAYS CAN INJURE

EYES & BURNS SKIN.INHALATION:WELDING FUMES MAY RESULT IN DISCOMFORT(DIZZINESS,NAUSEA,DRYNESS/IRRITATION)OF NOSE,THROAT OR EYES.ELECTRIC SHOCK CAN KILL.CHRONIC-INHALATION:IRON MAY DEPOSIT IN LUNG & AFFECTS PULMONARY FUNCTION.

Explanation of Carcinogenicity:NTP & IARC LIST NICKEL AND ITS COMPOUNDS AS POSING CARCINOGEN TO HUMAN.CONTAINS CR & NI (PER MSDS).

Effects of Overexposure:ARC RAYS CAN INJURE EYES & BURNS SKIN. WELDING FUMES MAY RESULT IN DISCOMFORT (DIZZINESS, NAUSEA, DRYNESS/IRRITATION) OF NOSE, THROAT OR EYES. ELECTRIC SHOCK CAN KILL.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES OR RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:CALL FOR MEDICAL AID.EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.INHALED:REMOVE TO FRESH AIR.PROVIDE CPR/OXYGEN IF NEEDED.IN CASE OF ELECTRICAL SHOCK,TURN OFF POWER & FOLLOW RECOMMENDED TREATMENT.

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

Flash Point:NONFLAMMABLE

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

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:

WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLE MATERIALS.

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===== Accidental Release Measures =====

Neutralizing Agent:NOT APPLICABLE.

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===== Handling and Storage =====

Handling and Storage Precautions:STORE IN A DRY PLACE.

Other Precautions:READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THE PRODUCT. AVOID BREATHING FUMES.

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===== Exposure Controls/Personal Protection =====

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Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL(TLV), USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHILE WELDING IN CONFINED SPACE OR GENERAL WORK AREA.

Ventilation:LOCAL EXHAUST AT THE ARC.

Protective Gloves:WELDER'S GLOVES

Eye Protection:HELMET OR FACE SHIELD WITH FILTER LENS

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

Work Hyg

enic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

INSULATE FROM WORK AND GROUND. TRAIN THE WELDER NOT TO PERMIT ELECTRICALLY LIVE PARTS TO CONTACT SKIN OR CLOTHING OR GLOVES IF THEY ARE WET.

===== Physical/Chemical Properties =====

HCC:N1

===== Stability and Reactivity Data =====

Stability Indicator/Materials to

Avoid:YES

STRONG ACIDS

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES

Hazardous Decomposition Products:CO,CO₂,FLUORIDES,OZONE,NITROGEN OXIDE,COMPLEX OXIDES CONTAINING IRON,CHROMIUM,MANGANESE,NICKEL,SILICON,MOLYBDENUM

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

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

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