

ALLOY RODS CORPORATION -- MILD STEEL COVERED ELECTRODES -- 3439-00-262-2653

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

Product ID:MILD STEEL COVERED ELECTRODES

MSDS Date:10/03/1989

FSC:3439

NIIN:00-262-2653

MSDS Number: BPZRD

=== Responsible Party ===

Company Name:ALLOY RODS CORPORATION

Address:1500 KAREN LN.

Box:517

City:HANOVER

State:PA

ZIP:17331

Country:US

Info Phone Num:717-637-8911

Emergency Phone Nu

m: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 =====

Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3

ACGIH TLV:10 MG/M3 AS FE2O3

Ingred Name:POTASSIUM TITANATE

CAS:12030-97-6

Other REC Limits:NONE RECOMMENDED

Ingred N

ame:MAGNESITE
CAS:546-93-0
RTECS #:OM2470000
Other REC Limits:NONE RECOMMENDED
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 RECOMMENDED
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

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

Ingred Name:ALPHA-ALUMINA (ALUMINUM OXIDE) (EPA LISTS ONLY FIBROUS
FORMS) (SARA III)
CAS:1344-28-1
RTECS #:BD1200000
Other R
EC Limits:NONE RECOMMENDED
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 RECOMMENDED
OSHA PEL:15 MG/M3 PARTICULATE
ACGIH TLV:10 MG/M3;TDUST; 9293

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 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: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:ZIRCONIUM OXIDE

CAS:1314-23-4

Other REC Limits:NONE RECOMMENDED

Ingred Name:CELLULOSE (PAPER FIBER)

CAS:9004-34-6

RTECS #:FJ5691460

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3; 9293

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE)

CAS:1317-65-3

RTECS #:E

V9580000

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:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

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:POTASSIUM ALUMINUM SILICATE (FELDSPAR)

CAS:68476-25-5

Other REC Limits:NONE RECOMMEND

ED
ACGIH TLV:2 MG/M3

Ingred Name:BENTONITE (INORGANIC CLAY)
CAS:1302-78-9
RTECS #:CT9450000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3 (DUST)
ACGIH TLV:5 MG/M3 (DUST)

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:ZIRCONIUM OXIDE
CAS:1314-23-4
Other REC Limits:NONE RECOMMENDED

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

Ingred Name:MICA
Other REC Limits:NONE RECOMMENDED
OSHA PEL:20 MP/FT3 Z-3
ACGIH TLV:3 MG/M3 RDUST 8990

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

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 OVEREXPOSURE TO WELDING FUMES
MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, N

AUSEA, DRYNESS OR

IRRITATION OF NOSE, THROAT OR EYES. CHRONIC OVEREXPOSURE MAY LEAD TO SIDEROSIS (IRON DEPOSITS IN THE LUNG) AND IS BELIEVED TO AFFECT PULMONARY FUNCTION. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.

Explanation of Carcinogenicity:NICKEL, CHROMIUM HAVE BEEN IDENTIFIED BY IARC AND/OR NTP AS CANCER CAUSING AGENTS.

Effects of Overexposure:SEE HEALTH HAZARDS

Medical Cond Aggravated by Exposure:PREEXISTING RESPIRATORY OR ALLERGIC CONDITIONS

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

First Aid:INHALATION: REMOVE TO FRESH AIR. CONSULT A PHYSICIAN. EYE: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION. I NGESTION: WHILE INGESTION OF LARGE ENOUGH QUANTITIES TO CAUSE HEALTH EFFECTS IS UNLIKELY, CONSULT A PHYSICIAN IF IT OCCURS.

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

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xtinguishing Media:THESE PRODUCTS AS SHIPPED ARE NONHAZARDOUS, NONFLAMMABLE, NONEXPLOSIVE, AND NONREACTIVE.

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 PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

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

Spill Release Procedures:CL

EAN UP ANY GRINDING DUST OR WASTE RESIDUES

AND PLACE IN SUITABLE DOT APPROVED CONTAINERS AND DISPOSE OF IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. AVOID INHALATION AND SKIN EXPOSURE.

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

Handling and Storage Precautions:WEAR GLOVES AND FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING.

Other Precautions:PROVIDE PROTECTIVE

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.

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

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.

Ventilation

:USE LOCAL AND GENERAL VENTILATION TO KEEP AIRBORNE CONCENTRATIONS OF DUST OR FUMES BELOW THE TLV DURING USE.

Protective Gloves:WELDERS LEATHER GLOVES

Eye Protection:OSHA APPROVED GOGGLES/FACE SHIELD W/LENS

Other Protective Equipment:BARRIER CREAMS MAY BE NECESSARY TO PREVENT SKIN SENSITIZATION AND DERMATITIS.

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

THIS MSDS COVER THE FOLLOWING MANU

FACTURER PRODUCT TRADE NAMES: SW14;

SW15; SW151P; 7024; SW610; AP100; SW612; SW-17F; 70LA-2; XP-60; AND 6013; XP-70; XP-80; XP-90; AND SW75. EACH PRODUCT TRADE NAME HAS SPECIFIC INGREDIENTS FROM THOSE LISTED IN THE INGREDIENTS OF THIS MSDS. NOT EVER INGREDIENT COMPRISE EACH TRADE NAME.

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

HCC:N1

Appearance and Odor:STRAIGHT, ROUND,WELDING ELECTRODE

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

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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.

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER, OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE

WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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