

ALLOY RODS CORPORATION -- SW14,SW15,SW151P,7024,SW610,AP100,SW612,SW-3439-00-984-4768

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

Product ID:SW14,SW15,SW151P,7024,SW610,AP100,SW612,SW-

MSDS Date:10/03/1989

FSC:3439

NIIN:00-984-4768

MSDS Number: BKJSX

=== 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

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===== Composition/Information on Ingredients =====

Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

Other REC Limits:NONE SPECIFIED

OSHA PEL:10 MG/M3 (AS FUME)

ACGIH TLV:5 MG/M3 (AS FUME)

Ingred Name:POTASSIUM TITANATE (IN SW14 ONLY)

CAS:120

30-97-6

Other REC Limits:NONE SPECIFIED

Ingred Name:MAGNESITE

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: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:POTASSIUM SILICATE-IN SW15, SW612, 70LA-2 & 6013

CAS:1312-76-1

Other REC Limits:NONE SPECIFIED

Ingred Name:ALPHA-ALUMINA (ALUMINUM OXIDE) (EPA LISTS ON  
LY FIBROUS

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: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: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: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:ZIRCONIUM OXIDE(SILICATE) - IN 6013 ONLY  
CAS:1314-23-4  
RTECS #:ZH8800000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:5 MG/M3 (MFR)  
ACGIH TLV:5 MG/M3 (MFR)

Ingred Name:CELLULOSE (PAPER FIBER)  
CAS:9004-34-6  
RTECS #:FJ5691460  
Other R  
EC Limits:NONE SPECIFIED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3; 9192

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:SODIUM METASILICATE - IN ALL ELECTRODES EXCEPT 70LA-2 AND  
6013  
CAS:6834-92-0  
RTECS #:VV9

275000  
Other REC Limits:NONE SPECIFIED

Ingred Name:POTASSIUM ALUMINUM SILICATE (FELDSPAR) - IN SW15 AND 7024  
CAS:68476-25-5  
Other REC Limits:NONE SPECIFIED

Ingred Name:BENTONITE(INORGANIC CLAY) - IN SW151P, SW612 AND 70LA-2  
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:CALCIUM FLUORIDE - IN 70LA-2  
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:ZIRCONIUM OXIDE - IN 70LA-2  
CAS:1314-23-4  
RTECS #:ZH8800000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:5 MG/M3 (MFR)  
ACGIH TLV:5 MG/M3 (MFR)

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:MICA - IN 6013 ONLY  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:20 MP/FT3 Z-3  
ACGIH TLV:3 MG/M3 RDUST 8990

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

Routes of Entry:

Inhalation: YES Skin: YES Ingestion: NO  
Reports of Carcinogenicity: NTP: YES IARC: YES OSHA: YES  
Health Hazards Acute and Chronic: ACUTE-EYES/SKIN: ARC RAYS CAN INJURE EYES & BURNS SKIN. INHALATION: WELDING FUMES MAY RESULT IN DISCOMFORT (DIZZINESS, NAUSEA, DRYNESS/IRRITATION) OF NOSE, THROAT OR EYES. CHRONIC-INHALATION: IRON MAY DEPOSIT IN LUNG & AFFECTS PULMONARY FUNCTION. ELECTRIC SHOCK CAN KILL.  
Explanation of Carcinogenicity: NTP & IARC LIST NICKEL AND ITS COMPOUNDS AS POSING CARCINOGEN TO HUMAN. CONTAINS CR & NI (PER MSDS).  
Effects of Overexposure: ELECTRIC ARC WELDING MAY CREATE FUMES AND GASES THAT CAN BE DANGEROUS TO YOUR HEALTH. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.  
Medical Condition 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. INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT. RESUSCITATE IF NOT BREATHING. IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER & FOLLOW RECOMMENDED TREATMENT.

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

Flash Point: NON FLAMMABLE  
Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.  
Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.  
Unusual Fire/Explosion Hazard: NONFLAMMABLE: WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLES.

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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 LABELING.

READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS  
AND THE PRECAUTIONARY LABEL ON THE PRODUCT.

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

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 & ELECTRICAL SHOCK.

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

Supplemental Safety and Health

TRADE

NAME: SW14, SW15, SW151P, 7024, SW610, AP100, SW612, SW-17F, 70LA-2, XP-60, XP  
-70, XP-80, XP-90, 6013 AND SW75. INSULATE FROM WORK AND  
GROUND. TRAIN THE WELDER NOT TO PERMIT ELECT  
RICALLY LIVE PARTS TO  
CONTACT SKIN OR CLOTHING OR GLOVES IF THEY ARE WET.

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

HCC: N1

Appearance and Odor: NONE SPECIFIED BY MANUFACTURER.

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

Stability Indicator/Materials to Avoid: YES

STRONG MINERAL ACIDS

Stability Condition to Avoid: HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES

Hazardous Decomposition Products: CO, CO<sub>2</sub>, FLUORIDES, OZONE, NITROGEN  
OXIDE, COMPLEX OX

IDES 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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