

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

===== 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

===== 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 ONLY 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 I N LUNG & AFFECTS PULMONARY FUNCTION.ELECTRIC SHOCK CAN KILL.
Explanation of Carcinogenicity:NTP & IARC LIST NICKEL AND ITS COMPOUNDS AS POSING CARCI
NOGEN 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 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.

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

First Aid:CAL
L 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 ELEC TRICAL SHOCK,TURN OFF POWER & FOLLOW RECOMMENDED TREATMENT.

===== 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 N
IOSH 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.

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

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:STORE IN A DRY PLACE.
Other Precautions:READ AND UNDE

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, CO₂, 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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