

## **4140, ATOM ARC**

### **MSDS Number**

BPPRR

### **National Stock Number**

3439-00N015729

### **Product Name**

4140, ATOM ARC

### **Manufacturer**

ALLOY RODS CORP

### **Product Identification**

Product ID:4140, ATOM ARC

MSDS Date:04/04/1988

FSC:3439

NIIN:00N015729

MSDS Number: BPPRR

### **Responsible Party**

ALLOY RODS CORPORATION

WILSON AVENUE

HANOVER , PA 17331

US

Emergency Phone: 717-637-8911

Info Phone: 717-637-8911

Cage: 84021

### **Contractor**

ESAB GROUP INC

517

HANOVER, PA 17331

US

717-637-8911 OR 800-933-7070

Cage: 84021

### **Ingredients**

CALCIUM CARBONATE

CAS: 1317-65-3

RTECS: EV9580000

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3 TDUST

TITANIUM OXIDE; (TITANIUM DIOXIDE)

CAS: 13463-67-7

RTECS: XR2275000

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3 TDUST; 9293

MANGANESE (SARA III)

CAS: 7439-96-5

RTECS: OO9275000

OSHA PEL(C) 5 MG/M3 DUST

ACGIH TLV: 5 MG/M3 DUST 9293

NICKEL (SARA III)

CAS: 7440-02-0

RTECS: QR5950000

OSHA PEL1 MG/M3

ACGIH TLV: 1 MG/M3

MOLYBDENUM

CAS: 7439-98-7

RTECS: QA4680000

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3; 9293

POTASSIUM SILICATE

CAS: 1312-76-1

7784-75-5)

CAS: 7789-75-5

RTECS: EW1760000

OSHA PEL2.5 MG/M3 AS F

ACGIH TLV: 2.5 MG/M3 AS F

POTASSIUM ALUMINUM SILICATE (FELDSPAR); (POTASSIUM

CAS: 68476-25-5

ZIRCONIUM DIOXIDE; (ZIRCONIUM SILICATE)

CAS: 7440-67-2

OSHA PEL5 MG/M3 (MFR)

ACGIH TLV: 5 MG/M3 (MFR)

7439-84-6)

CAS: 7439-89-6

RTECS: NO4565500

OSHA PEL10 MG/M3 (FE)

ACGIH TLV: 5 MG/M3 (FE)

## CHROMIUM (SARA III)

CAS: 7440-47-3

RTECS: GB4200000

OSHA PEL1 MG/M3

ACGIH TLV: 0.5 MG/M

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

## SILICON

CAS: 7440-21-3

RTECS: VW0400000

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3 TDUST; 9293

## SILICIC ACID, (H\*2SIO\*3), DISODIUM SALT; (SODIUM SILICATE)

CAS: 6834-92-0

RTECS: VV9275000

## Hazards

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:FUMES & GASES CAN BE DANGEROUS TO YOUR HEALTH. ACUTE:OVEREXPOSURE TO WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS:DIZZINESS, NAUSEA OR DRYNESS/IRRITATION OF NOSE, THROAT OR EYES. CHRONIC:OVEREXPOSUR E MAY LEAD TO SIDEROSIS (IRON DEPOSITS IN LUNG) & IS BELIEVED BY SOME INVESTIGATORS TO AFFECT PULMONARY(EFTS OF OVEREXP)

Explanation of Carcinogenicity:NICKEL:ANTICIPATED TO BE A CARCINOGEN(NTP), 2B(IARC).

Effects of Overexposure:HLTH HAZ:FUNCTION. ARC RAYS CAN INJURE EYES & BURN SKIN. ELECTRIC SHOCK CAN KILL.

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

## First Aid

First Aid:CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOM BY AMERICAN RED CROSS. INHAL:REMOVE TO FRESH AIR. SUPPORT BRTHG (GIVE O\*2/ARTF RESP) . INGEST:CALL MD IMMED . EYES:FLUSH W/POTABLE W ATER FOR MINIMUM OF 15 MINUTES, SEEK ASSISTANCE FROM MD . SKIN:FLUSH W/COPIOUS AMOUNTS OF WATER. CALL MD .

## Fire Fighting

Flash Point:NON-FLAMMBLE

Extinguishing Media:USE MEDIA SUITABLE FOR SURROUNDING FIRE .

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:WELDING ARC & SPARKS CAN IGNITE COMBUSTIBLES.

## Accidental Release

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

## Handling

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

---

## Exposure Controls

Respiratory Protection:USE NIOSH/MSHA APPROVED 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 ENOUGH VENT, LOC EXHST @ ARC/BOTH, TO KEEP FUMES & GASES BELOW TLV'S IN WORKER'S BRTHG ZONE & GENERAL AREA.

Protective Gloves:WELDER'S GLOVES.

Eye Protection:HELMET/FACE SHIELD W/FILTER LENS.

Other Protective Equipment:ARM PROTECTORS, APRONS, HATS, SHOULDER PROT, AS WELL AS DARK SUBSTANTIAL CLTHG. EMER EYEWASH & DELUGE SHOWER .

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

HAZ DECOMP PROD:RXN PRODS MAY INCL CO & CO\*2. OZONE & NITROGEN OXIDES MAY BE FORMED BY RADIATION FROM ARC.

## Chemical Properties

HCC:N1

Appearance and Odor:NOT RELEVANT

## Stability

Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:REAS EXPECTED FUME CONSTITUENTS FROM PRODS WOULD INCL FLUORIDES & COMPLEX OXIDES OF METALS IN INGS SECT. GASEOUS(SUPDAT)

## Disposal

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE W/FEDERAL, STATE & LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.