

## **300 SERIES SUPER AC-DC STAINLESS STEEL ELEC**

### **MSDS Number**

BJDLQ

### **National Stock Number**

3439-00-246-0576

### **Product Name**

300 SERIES SUPER AC-DC STAINLESS STEEL ELEC

### **Manufacturer**

NATIONAL WELDING ALLOYS INC

### **Product Identification**

Product ID:300 SERIES SUPER AC-DC STAINLESS STEEL ELEC

MSDS Date:10/01/1985

FSC:3439

NIIN:00-246-0576

MSDS Number: BJDLQ

### **Responsible Party**

NATIONAL WELDING ALLOYS, INC.

1600 SOUTH CANAL STREET

PITTSBURGH , PA 15215

US

Emergency Phone: 412-781-4255

Info Phone: 412-781-4255

Cage: 0ACE2

### **Contractor**

NATIONAL WELDING ALLOYS INC

PITTSBURGH, PA 15215-2624

US

412-781-4255

Cage: 0ACE2

### **Ingredients**

IRON

CAS: 7439-89-6

RTECS: NO4565500

NICKEL (SARA III)

CAS: 7440-02-0

RTECS: QR5950000

OSHA PEL1 MG/M3

ACGIH TLV: 1 MG/M3; 9192

MOLYBDENUM

CAS: 7439-98-7

RTECS: QA4680000

OSHA PEL15 MG/M3 TDUST  
ACGIH TLV: 10 MG/M3; 9293

CALCIUM CARBONATE (MARBLE) (LIMESTONE)  
CAS: 1317-65-3

RTECS: EV9580000  
OSHA PEL15 MG/M3 TDUST  
ACGIH TLV: 10 MG/M3 TDUST; 9192

SODIUM METASILICATE  
CAS: 6834-92-0  
RTECS: VV9275000

NIOBIUM  
CAS: 7440-03-1

CHROMIUM (SARA III)  
CAS: 7440-47-3  
RTECS: GB4200000  
OSHA PEL1 MG/M3  
ACGIH TLV: 0.5 MG/M3; 9192  
EPA Report Quantity: 1 LB  
DOT Report Quantity: 1 LB

MANGANESE (SARA III)  
CAS: 7439-96-5  
RTECS: OO9275000  
OSHA PEL(C) 5 MG/M3 DUST  
ACGIH TLV: 5 MG/M3 DUST 9293

TITANIUM DIOXIDE  
CAS: 13463-67-7  
RTECS: XR2275000  
OSHA PEL15 MG/M3 TDUST  
ACGIH TLV: 10 MG/M3 TDUST; 9293

CALCIUM FLUORIDE  
CAS: 7789-75-5  
RTECS: EW1760000

KAOLIN

CAS: 1332-58-7

RTECS: GF1670500

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 2 MG/M3 TDUST; 9293

COPPER (SARA III)

CAS: 7440-50-8

RTECS: GL5325000

OSHA PEL0.1MG/M3 FUME/1 DUST

ACGIH TLV: 0.2MG/M3 FUME; 9192

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

## Hazards

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:SHORT TERM EXPOSURE TO WELDING FUMES, GASES OR DUST MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT AND EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. A CUTE EXPOSURE FROM SOME TOXIC GASES MAYCAUSE PULMONARY EDEMA, ASPHYXIATION AND EXCESSIVE EXPOSURE CAN BE FATAL.

Explanation of Carcinogenicity:NICKEL AND CHROMIUM ARE CONSIDERED POSSIBLE CARCINOGENS.

Effects of Overexposure:EXPOSURE TO WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT AND EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. WATERY EYES, HEADACHE, BREA THING DIFFICULTY, FREQUENT COUGHING AND/OR CHEST PAINS MAY OCCURE FROM ACUTE EXPOSURE. TOXIC GASES CAN BE FATAL.

Medical Cond Aggravated by Exposure:SOME WORKERS MAY BE AFFECTED BY A PRE-EXISTING CONDITION OR OTHER OCCUPATIONAL ILLNESS BECAUSE OF THE WIDE VARIATION IN INDIVIDUAL SUSCEPTIBILITIES.

## First Aid

First Aid:IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER PRIOR TO REMOVAL FROM EXPOSURE AREA AND ADMINISTRATION OF FIRST AID. REMOVE FROM EXPOSURE AREA AND CALL FOR MEDICAL AID. ADMINISTER OXYGEN IF BREATHING IS D IFFICULT. IF NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION. IF NO DETECTABLE PULSE, BEGIN EXTERNAL HEART MASSAGE. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.

## Fire Fighting

Flash Point:NONE

Extinguishing Media:NON-FLAMMBLE;USE SUITABLE MEDIA FOR SURROUNDING FIRES.

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:NOT EXPECTED

## Accidental Release

Spill Release Procedures:CLEAN 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 EXPOSU RE.

## Handling

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.

## Exposure Controls

Respiratory Protection: USE WELD FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN CUTTING, GRINDING OR WELDING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST OR GENERAL VENTILATION DOES NOT KEEP EXPOSURE BELOW RECOMMENDED LIMITS. USE ONLY NIOSH APPROVED RESPIRATORS.  
Ventilation: USE ENOUGH VENTILATION WHEN CUTTING, GRINDING OR WELDING TO KEEP THE DUST, FUMES & GASES FROM THE WORKERS BREATHING ZONE  
Protective Gloves: WELDERS LEATHER GLOVES  
Eye Protection: OSHA APPROVED GOGGLES/FACE SHIELD W/LENS  
Other Protective Equipment: FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING.  
Work Hygienic Practices: WASH THOROUGHLY BEFORE EATING OR SMOKING. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.  
Supplemental Safety and Health  
WELDING AND HOT CUTTING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY ARE DEPENDENT ON THE METAL BEING WELDED, THE PROCEDURES, PROCESSES AND THE TYPE OF WIRE OR ELECTRODES USED. OTHER INFLUENCING FACTORS ARE THE PRESENCE OF CONTAMINANTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES.

## Chemical Properties

HCC: N1  
Solubility in Water: NIL  
Appearance and Odor: WELDING ROD

## Stability

Stability Indicator/Materials to Avoid: YES  
NOT KNOWN  
Stability Condition to Avoid: HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES  
Hazardous Decomposition Products: WELDING AND CUTTING OPERATION MAY INCLUDE OXIDES OF THE METALS, CHROMATES, FLUORIDES, COMPLEX METALLICS, AND OZONE.

## Disposal

Waste Disposal Methods: DISPOSE I/A/W FEDERAL, STATE & LOCAL REGULATIONS

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