

ALLOY RODS CORPORATION -- COREWELD METAL CORED COMPOSITE ELECTRODE --
3439-01-232-8322

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

Product ID: COREWELD METAL CORED COMPOSITE ELECTRODE

MSDS Date: 06/06/1986

FSC: 3439

NIIN: 01-232-8322

MSDS Number: BQMLF

=== Responsible Party ===

Company Name: ALLOY RODS CORPORATION

Address: WILSON AVENUE

Box: 517

City: HANOVER

State: PA

ZIP: 17331

Country: US

Info Phone Num: 717-637-8

911

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

Company Name: SMITH S J CO INC

Address: 3707 W RIVER DR

Box: City: DAVENPORT

State: IA

ZIP: 52802-2411

Country: US

Phone: 319-324-5237

CAGE: 2N560

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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: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:COLUMBIUM
CAS:7440-03-1
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3
ACGIH TLV:5 MG/M3

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

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===== 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 Ha

zards Acute and Chronic:FUMES & GASES CAN BE DANGEROUS TO YOUR HEALTH. ACUTE-OVEREXPOSURE TO WELDING FUMES MAY RESULT IN DISCOMFORT. CHRONIC-OVEXPOSURE MAY LEAD TO SIDEROSIS (IRON DEPOSITS IN THE LUNG) & IS BELIEVED BY SOME INVESTIGATORS TO AFFECT PULMONARY FUNCTIONS. ARC RAYS CAN INJURE EYES & BURN SKIN. ELECTRICAL SHOCK CAN KILL.

Explanation of Carcinogenicity:NICKEL HAS BEEN IDENTIFIED BY IARC AND/OR NTP AS POTENTIAL CANCER CAUSING AGENTS.

Effects of Overexposure:EXPOS

URE TO WELDING FUMES MAY CAUSE DIZZINESS, NAUSEA, OR DRYNESS OR IRRITATION OF NOSE, THROAT, OR EYES.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN REDE CROSS.

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

Flash Point:NONFLAMMABLE

Unusual Fire/Explosion Hazard:WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLES. SEE Z-49.1.

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===== 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 LISTE

D. 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 SPACES 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 A

PROVED GOGGLES/FACE SHIELD W/LENS

Other Protective Equipment: AT A MINIMUM USE ARM PROTECTORS, APRONS, HATS, SHOULDER PROTECTION AS WELL AS DARK SUBSTANTIAL CLOTHING.

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

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

HCC:N1

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

Stability Indicator/Materials to Avoid: YES
NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products: CONSTITUENTS MAY INCLUDE COMPLEX OXIDES OF IRON, MANGANESE, SILICON, & WHEN PRESENT NICKEL, CHROMIUM, MOLYBDENUM.

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

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

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