

THE ESAB GROUP (FORMALLY ALLOY RODS CORP) -- ALLOY RODS ARCALOY BARE STAINLESS
STEEL WELD ELECTRODE,ER308 -- 3439-00-995-6742

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

Product ID:ALLOY RODS ARCALOY BARE STAINLESS STEEL WELD ELECTRODE,ER308

MSDS Date:02/02/1995

FSC:3439

NIIN:00-995-6742

MSDS Number: CCCCX

=== Responsible Party ===

Company Name:THE ESAB GROUP (FORMALLY ALLOY RODS CORP)

Address:801 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:EO381

=== 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:THE ESAB GROUP (L-TEC WELDING AND CUTTING SYSTEMS)

Address:MIDDLE RD BOX 710

Box:517

City:ASHTABULA

State:OH

ZIP:44004

Country:US

Phone:216-992-1265

CAGE:EO381

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

Ingred Name:MANGANESE (SARA 313)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 1.0-2.5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C, 5 MG/M3 (FUME)
ACGIH TLV:0.2 MG/M3; 9596

Ingred Name:NICKEL (SARA 313) (CERCLA)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 9-11%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9596

Ingred Name:CHROMIUM (SARA 313) (CERCLA)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 19.5-
22%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9596
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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; 9596

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO

IARC:YES OSHA:YES

Health Hazards Acute and Chronic:EFFECTS OF ACUTE (SHORT TERM)
OVEREXPOSURE TO THE GASES, FUMES & DUST MAY INCLUDE IRRITATION OF
THE EYES, LUNGS, NOSE & THROAT. SOME TOXIC GASES MAY CAUSE
PULMONARY EDEMA, ASPHYXIATION & DEATH.

Explanation of Carcinogenicity:NICKEL AND CHROMIUM MUST BE CONSIDERED
POSSIBLE CARCINOGENS UNDER OSHA. IARC HAS INDICATED NICKEL &
CHROMIUM AS POSSIBLE

Effects of Overexposure:ACUTE OVEREXPOSURE MAY INCLUDE SIGNS AND
SYMPTOMS
SUCH AS WATERY EYES, NOSE AND THROAT IRRITATION, HEADACHE,
DIZZINESS, DIFFICULTY BREATHING, FREQUENT COUGHING OR CHEST PAIN.
Medical Cond Aggravated by Exposure:INDIVIDUALS WITH ALLERGIES OR
IMPAIRED RESPIRATORY FUNCTION MAY HAVE SYMPTOMS WORSENERD BY
EXPOSURE TO WELDING FUMES.

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

First Aid:IN CASE OF EMERGENCY CALL FOR MEDICAL AID. EMPLOY FIRST AID
TECHNIQUE RECOMMENDED BY AMERICAN RED CROSS. IF BREATHING IS
DIFFICULT, GIVE OXYGEN AND CALL DOCTOR. FOR ELECTRICAL SHOCK
DISCONNECT AND TUR N OFF THIS POWER. IF NOT BREATHING, GIVE
ARTIFICIAL RESPIRATION; IF NO PULSE, ADMINISTER CPR. IMMEDIATLY
CALL FOR MEDICAL AID. FOR ARC BURN, APPLY COLD, CLEAN COMPRESS AND
GET MEDICAL AID.

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

Autoignition Temp:Autoignition Temp Text:NP
Extinguishing Media:USE THE EXTINGUISHING MEDIA RECOMMENDED FOR THE
BURNING MATERIAL AND FIRE SI
TUATION.
Fire Fighting Procedures:THIS PRODUCT WILL NOT BURN.
Unusual Fire/Explosion Hazard:WELDING ARCS AND SPARKS CAN IGNITE
COMBUSTIBLES AND FLAMMABLE MATERIALS.

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

Spill Release Procedures:NOT APPLICABLE.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.
Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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===== Exposure Controls/P

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 EXPOSURES BELOW TLV.

Ventilation:USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC OR BOTH, TO KEEP THE FUME & GOGGLES BELOW THE TLV IN WORKER BREATH ZONE

Protective Gloves:WELDERS WORK GLOVES

Eye Protection:WELDERS HELMET WITH CORRECT LENSES

Other Protective Equipment:WEAR HEAD, HAND & BODY PROTECTION TO PREVENT

INJURY FROM RADIATION, SPARKS & ELECTRICAL SHOCK.

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

TRAIN THE WELDER NOT TO TOUCH LIVE ELECTRICAL PARTS AND TO INSULATE HIMSELF FROM WORK AND GROUND.

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

HCC:N1

Boiling Pt:B.P. Text:NP

Melt/Freeze Pt:M.P/F.P Text:NP

Decomp Temp:Decomp T

ext:NP

Vapor Pres:NP

Vapor Density:NP

Spec Gravity:NP

pH:NP

Viscosity:NP

Evaporation Rate & Reference:NP

Solubility in Water:NP

Appearance and Odor:SOLID STAINLESS STEEL WIRE OR ROD, ODORLESS.

Percent Volatiles by Volume:NP

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES

NONE CURRENTLY KNOWN

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:COMPLEX OF OXIDES OF THE I

INGREDIENTS,
AS WELL AS CARBON MONOXIDE AND CARBON DIOXIDE, OZONE, NITROGEN
OXIDES.

===== 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 AND LOCAL REGULATIONS.

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