

THE ESAB GROUP, INC. -- 110 ALLOY RODS DUAL SHIELD MILD STEEL T-1/T-2 FLUX CORED WEL --
3439-00-276-0401

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

Product ID:110 ALLOY RODS DUAL SHIELD MILD STEEL T-1/T-2 FLUX CORED WEL

MSDS Date:02/15/1994

FSC:3439

NIIN:00-276-0401

MSDS Number: BYDZT

=== Responsible Party ===

Company Name:THE ESAB GROUP, INC.

Address:801 WILSON AVENUE

Box:517

City:HANOVER

State:PA

ZIP:17

331

Country:US

Info Phone Num:717-637-8911

Emergency Phone Num:717-637-8911

CAGE:59016

=== 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, INC

Address:801 WILSON AVE

Box:600

City:HAOVER

State:PA

ZIP:17331

Country:US

Phone:717-367-8911

CAGE:59016

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

Ingred Name:MANGANESE

(SARA 313)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 3.6%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9495

Ingred Name:MANGANESE COMPOUNDS
Fraction by Wt: 0.6%
Other REC Limits:NONE RECOMMENDED

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; 9495

Ingred Name:TITANIUM DIOXIDE
CAS:13463-67-7
RTECS #:XR2275000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
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ACGIH TLV:10 MG/M3 TDUST; 9495

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

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

LD50 LC50 Mixture:1989 TWA (WELDING FUME) = 5 MG/M3
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: INHALATION OF FUMES/GASES MAY
CAUSE IRRITATION OF EYES, LUNGS, NOSE, OR THROAT. MAY CAUSE
PULMONARY EDEM

A, ASPHYXIATION, POSSIBLE DEATH. CHRONIC: PROLONGED OR REPEATED EXPOSURE MAY CAUSE REDUCED LUNG FUNCTION, PULMONARY FIBROSIS, EDEMA. MAY ALSO AFFECT CNS.

Explanation of Carcinogenicity: NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.

Effects of Overexposure: WATERY EYES, NOSE AND THROAT IRRITATION, HEADACHE, DIZZINESS, DIFFICULTY BREATHING, FREQUENT COUGH, CHEST PAIN, METALLIC TASTE, NAUSEA, TIGHTNESS IN CHEST, FEVER, ALLER

GIC REACTION, LETHARGY, SLEEPINESS, MUSCULAR WEAKNESS, EMOTIONAL DISTURBANCES, SPASTIC GAIT.

Medical Conditions Aggravated by Exposure: PERSONS WITH ALLERGIES OR IMPAIRED RESPIRATORY FUNCTION.

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

First Aid: CALL FOR MEDICAL AID. EMPLOY FIRST AID METHODS RECOMMENDED BY AMERICAN RED CROSS. IF BREATHING IS DIFFICULT, GIVE OXYGEN & CALL PHYSICIAN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF ELECTRICAL SHOCK: CU

T OFF POWER. GIVE ARTIFICIAL RESPIRATION IF NEEDED, GET MEDICAL ATTENTION. IF NO PULSE, GIVE CPR. ARC BURN: APPLY COLD, CLEAN COMPRESS AND CALL PHYSICIAN.

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

Flash Point: NONFLAMMABLE

Extinguishing Media: USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures: NONE SPECIFIED BY MANUFACTURER.

Unusual Fire/Explosion Hazard: THE PRODUCT WILL NOT BURN; HOWEVER, WELDING ARCS & SPARKS CAN IGNITE COMBUSTIBLE OR FLAMMABLE MATERIALS.

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

Spill Release Procedures: MANUFACTURER STATES: NOT APPLICABLE.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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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/Personal Protection =====

Respiratory Protection: USE RESPIRABLE FUME R

ESPIRATOR OR AIR-SUPPLIED

RESPIRATOR WHEN WELDING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation:USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC OR BOTH, TO KEEP FUMES AND GASES BELOW TLV IN WORKER'S BREATHING ZONE.

Protective Gloves:WELDER'S GLOVES.

Eye Protection:HELMET W/FILTER LENSES.

Other Protective Equipment:WEAR HEAD, HAND & BODY PROTECTION WHICH HELP PREVENT INJURY FROM RADIATION, SPARKS, & ELECTRICAL SHOCK. SEE A NSI

Z49.1.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

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

HCC:N1

Appearance and Odor:TUBULAR STEEL WIRE CONTAINING MINERALS AND ALLOYS; ODOLRESS.

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

Stability Indicator/Materials to Avoid:YES

NONE CURRENTLY KNOWN.

Stability Conditio

n to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:WELDING FUMES AND GASES CANNOT BE CLASSIFIED SIMPLY. COMPOSITION DEPENDS ON METAL BEING WELDED & CONDITION OF SAID METAL

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

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

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