

ESAB GROUP INC -- 7018-MO1/E7018-A1 -- 3439-00-497-7560

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

Product ID:7018-MO1/E7018-A1

MSDS Date:03/16/2000

FSC:3439

NIIN:00-497-7560

Status Code:A

MSDS Number: CKYVZ

=== Responsible Party ===

Company Name:ESAB GROUP INC

Address:801 WILSON AVENUE

Box:517

City:HANOVER

State:PA

ZIP:17331

Country:US

Info Phone Num:717-637-8911 OR 800-933-7070

Emergency Phone Num:717-637-8911

Chemtrec Ind/Phone:(800)424-9300

CAGE:84021

=== Contract

or 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:WESCO II

Address:XXXXXXXXXXXXXX

Box:City:XXXXXXXXXX

Phone:XXXXXXXXXXXXXXXXXX

Contract Num:SP0490-01-D-5140

CAGE:1C9G4

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

Ingred Name:MANGANESE

CAS:7439-96-5

RTECS #:OO9275000

Minumum % Wt:1.

Maxumum % Wt:2.

OSHA PEL:C5 MG/M3

ACGIH TLV:5 MG/M3

Ingre

d Name:CALCIUM CARBONATE
CAS:471-34-1
RTECS #:FF9335000

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
OSHA PEL:15 MG/M3
ACGIH TLV:10 MG/M3

Ingred Name:SILICON DIOXIDE (SIO2)
CAS:7631-86-9

Ingred Name:CALCIUM FLUORIDE (CAF2)
CAS:7789-75-5
RTECS #:EW1760000

Ingred Name:SILICATE BINDER

Ingred Name:TITANIUM OXIDE (TIO2)
CAS:13463-67-7
RTECS #:XR2275000
OSHA PEL:15 MG/M3
ACGIH TLV:10 MG/M3

Ingred Name:MINERAL SILICATES

Ingred Name:MOLYBDENUM
CAS:7439-98-7
RTECS #:QA4680000
ACGIH TLV:10 M
G/M3

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500

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

LD50 LC50 Mixture:NO DATA PROVIDED BY MANUFACTURER
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:PRIMARY ROUTE OF ENTRY IS BY
INHALATION. SKIN CONTACT, EYE CONTACT, AND INGESTION ARE POSSIBLE.
ABSORPTION BY SKIN CONTACT IS UNLIKELY. ACUTE(SHORT TERM)
OVEREXPOSURE T

O THE GASES, FUMES AND DUSTS MAY INCLUDE IRRITATION OF THE EYES, LUNGS, NOSE AND THROAT. SOME TOXIC GASES ASSOCIATED WITH WELDING MAY CAUSE PULMONARY EDEMA, ASPHYXIATION, AND DEATH. CHRONIC: DUE TO DUST ACCUMULATION IN LUNGS, MAY EXPERIENCE REDUCED LUNG FUNCTION OR DISEASE.OVEREXPOSURE TO MANGANESE COMPOUNDS MAY AFFECT THE CENTRAL NERVOUS SYSTEM.

Explanation of Carcinogenicity:NO DATA GIVEN FOR INGREDIENTS FOUND IN THIS PARTICULAR PRODUCT.

Effects of Overexposure:ACUTE:

DIFFICULTY IN BREATHING, FREQUENT

COUGHING, OR CHEST PAIN. CHROMIUM/CHROMATE IN FUME CAN CAUSE IRRITATION OF NASAL MEMBRANES AND SKIN. PRESENCE OF NICKEL COMPOUNDS IN FUME CAN CAUSE METALLIC TASTE, NAUSEA, TIGHTNESS OF CHEST, FEVER, AND ALLERGIC REACTION. CHRONIC: LETHARGY, SLEEPINESS, MUSCULAR WEAKNESS, EMOTIONAL DISTURBANCES, SPASTIC GAIT.

Medical Condition Aggravated by Exposure:INDIVIDUALS WITH ALLERGIES OR IMPAIRED RESPIRATORY FUNCTION MAY HAVE SYMPTOMS WORSENERE

EXPOSURE TO WELDING FUMES: HOWEVER, REACTION CANNOT BE PREDICTED DUE TO VARIATION IN COMPOSITION AND QUANTITY.

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

First Aid:IN CASE OF EMERGENCY, CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUE RECOMMENDED BY THE RED CROSS. IF BREATHING IS DIFFICULT, GIVE OXYGEN AND CALL FOR A PHYSICIAN. FOR ELECTRIC SHOCK DISCONNECT AND TURN OFF THE POWER. IF NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION PREFERABLY MOUTH-TO-M

OUTH. IF NO DETECTABLE PULSE,

BEGIN CARDIO PULMONARY RESUSCITATION (CPR) IMMEDIATELY CALL A PHYSICIAN. FOR ARC BURN, APPLY COLD, CLEAN COMPRESSES AND CALL A PHYSICIAN.

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

Flash Point:NONFLAMMABLE

Extinguishing Media:PRODUCT WILL NOT BURN; HOWEVER, WELDING ARCS AND SPARKS CAN IGNITE COMBUSTIBLE AND FLAMMABLE MATERIALS. USE EXTINGUISHING MEDIA RECOMMENDED FOR BURNING MATERIALS AND FIRE SITUATION.

Fire Fighting

ting Procedures:SEE ANSI Z49.1 "SAFETY IN WELDING AND CUTTING"
AND "SAFE PRACTICES" CODE: SP, PUBLISHED BY THE AMERICAN WELDING
SOCIETY, PO BOX 351040. MIAMI, FL 33135, AND NFPA S18 "CUTTING AND
WELDING PROCESSES." PUBLISHED BY NATIONAL FIRE PROTECTION
ASSOCIATION, BATTERYMARCH PART, QUINCY, MA 02269
Unusual Fire/Explosion Hazard:ONLY THE PACKAGING FOR THIS PRODUCT WILL
BURN.

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

Spill Release Procedures:NOT A
PPLICABLE.
Neutralizing Agent:NO DATA PROVIDED BY MANUFACTURER.

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

Handling and Storage Precautions:NO DATA PROVIDED BY MANUFACTURER
Other Precautions:ELECTRIC ARC WORKING CREATE ONE OR MORE OF THE
FOLLOWING HEALTH OR PHYSICAL HAZARDS. FUMES AND GASES DANGEROUS TO
YOUR HEALTH. ELECTRIC SHOCK CAN KILL YOU. ARC RAYS CAN INJURE EYES
AND BURN SKIN. NOISE CAN DAMAGE HEARING. HEALTH AND PHYSICAL
HAZARDS AND CONSEQUENCE
S FOUND IN ESAB'S FREE PUBLICATIONS ,
F52-529 AND F2035.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE 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 VENTILATION, LOCAL EXHAUST AT THE ARC, OR BOTH.
TO KEEP THE FUMES AND GASES BELOW THE TLVS IN THE WORKER'S
BREATHING ZONE AND THE GENERAL AREA.
Protective Gloves:WELDERS GLOVES, HAND AND BODY PROTECTION, DARK
SUBSTANTIAL CLOTHING.
Eye Protection:WEAR HELMET OR USE FACE SHIELD WITH FILTER LENS.
Other Protective Equipment:HAND AND BODY PROTECTION TO PREVENT INJURY
FROM RADIATION, SPARKS AND ELECTRICAL SHOCK. SEE ANSI Z-49-1.
INCLUDES WELDERS GLOVES AND PROTECTIVE FACE SHIELD, ARM AND
SHOULDER PROTECTORS, APRONS, HATS.
Work Hygienic Practices:TRAIN THE WELDER TO KEEP HIS HEAD OUT OF THE
FUMES. TRAIN THE WELDER NOT TO TOUCH

H LIVE ELECTRICAL PARTS AND TO
INSULATE HIMSELF FROM WORK AND GROUND.

Supplemental Safety and Health

AS A RULE OF THUMB, START WITH A SHADE WHICH IS TOO DARK TO SEE THE
WELD ZONE. THEN GO TO THE NEXT LIGHTER SHADE WHICH GIVES SUFFICIENT
VIEW OF THE WELD ZONE. PROVIDE PROTECTIVE SCREENS AND FLASH GOGG
LES, IF NECESSARY, TO SHIELD OTHERS.

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

HCC:N1

Boiling Pt:B.P. Text:NONFLAMMABLE/NONREACTI

Appearance and Odor:SOL

ID, FLUX COATED STEEL CORE WIRE. ODORLESS.

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

Stability Indicator/Materials to Avoid:YES

NONE CURRENTLY KNOWN.

Stability Condition to Avoid:STABLE.

Hazardous Decomposition Products:FROM NORMAL USE OF THESE PRODUCTS
INCLUDE A COMPLEX OF THE OXIDES AND FLUORIDES OF THE MATERIALS
LISTED IN SECTION II. AS WELL AS CARBON MONOXIDE, CARBON DIOXIDE,
OZONE AND NITROGEN OXIDES.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:NO DATA PROVIDED BY MANUFACTURER

===== Ecological Information =====

Ecological:NO DATA PROVIDED BY MANUFACTURER

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING
ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE DISPOSABLE CONTAINER, OR
LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANN

ER, IN FULL COMPLIANCE
WITH FEDERAL, STATE AND LOCAL REGULATIONS.

===== MSDS Transport Information =====

Transport Information:NO DATA PROVIDED BY MANUFACTURER

===== Regulatory Information =====

SARA Title III Information:FOLLOWING INGREDIENTS ARE SUBJECT TO SECTION
313 OF SARA: MANGANESE.

Federal Regulatory Information:NO DATA PROVIDED BY MANUFACTURER

State Regulatory Information:THIS PRODUCT WHEN USED FOR WELDING OR

CUTTING PRODUCES FUMES OR GASES WHICH CONTAIN CHEMICALS KNOWN TO
THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS AND IN SOME CASES
CANCER.

===== Other Information =====

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assume responsibility for the suitability of this information to their
particular situation.