

ALLOY RODS CORPORATION -- MISCELLANEOUS ARCALOY HIGH ALLOY COVERED EL --
3439-00-262-2739

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

Product ID:MISCELLANEOUS ARCALOY HIGH ALLOY COVERED EL

MSDS Date:02/15/1988

FSC:3439

NIIN:00-262-2739

MSDS Number: BRGTW

=== Responsible Party ===

Company Name:ALLOY RODS CORPORATION

Address:WILSON AVENUE

Box:517

City:HANOVER

State:PA

ZIP:17331

Country:US

Info Phone Num:717

-637-8911

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

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

Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

Other REC Limits:NONE RECOMMENDED

OSHA PEL:NOT ESTABLISHED.

ACGIH TLV:NOT ESTABLISHED.

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

Ingred Name:CALCIUM FLUORIDE
CAS:7789-75-5
RTECS #:EW1760000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2.5 MG/M3 (AS F).
ACGIH TLV:2.5 MG/M3 (AS F).

Ingred Name:POTASSIUM ALUMINUM SILICATE (FELDSPAR)
CAS:68476-25-5
Other REC Limits:NONE RECOMMENDED

Ingred Name:TITANIUM DIOXIDE
CAS:13463-67-7
RTECS #:XR2275000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:CHROMIUM (SARA III)
CAS:7440-47-3
RTECS #:GB4200000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9293
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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:CALCIUM CARBONATE (MARBLE)

(LIMESTONE)

CAS:1317-65-3

RTECS #:EV9580000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:SODIUM METASILICATE

CAS:6834-92-0

RTECS #:VV9275000

Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM HEXAFLUOROALUMINATE/CRYOLITE

CAS:15096-52-3

RTECS #:WA9625000

Other REC Limits:2.5 MG/M3 (F) NIOSH

OSHA PEL:2.5 MG/M3 (AS F).

ACGIH TLV:2 MG/M3 (AS AL).

Ingred Name:TITANIUM, METAL

CAS:7440-32-6

RTECS #:XR1700000

Other REC Limits:10 MG/M3

Ingred

Name:NIOBIUM/COLUMBIUM (OLD NAME)

CAS:7440-03-1

Other REC Limits:NONE RECOMMENDED

Ingred Name:BARIUM CARBONATE

CAS:513-77-9

RTECS #:CQ8600000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:NOT ESTABLISHED.

Ingred Name:POTASSIUM TITANATE

CAS:12030-97-6

Other REC Limits:NONE RECOMMENDED

Ingred Name:TUNGSTEN

CAS:7440-33-7

RTECS #:YO7175000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3/ 10 STEL

ACGIH TLV:5 MG/M3/10 STEL;9293

Ingred Name:ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000

Other

REC Limits:NONE RECOMMENDED
OSHA PEL:15MG/M3 DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9293

Ingred Name:TIN
CAS:7440-31-5
RTECS #:XP7320000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9293

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2MG/M3 FUME; 9293
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:SODIUM TITANATE
CAS:12034-34-3
Other REC Limits:NONE RECOMMENDED

Ingred Name:
e:CALCIUM SILICATE
CAS:1344-95-2
RTECS #:VV9150000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:MAGNESITE
CAS:546-93-0
RTECS #:OM2470000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:A

CUTE- FUMES AND GASES CAN BE

DANGEROUS TO YOUR HEALTH. CHRONIC- LONG TERM OVEREXPOSURE MAY LEAD TO SIDEROSIS (IRON DEPOSIT IN THE LUNG) AND MAY AFFECT PULMONARY FUNCTION. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.

Explanation of Carcinogenicity:CONTAINS CHROMIUM AND NICKEL.

Effects of Overexposure:DIZZINESS, NAUSEA, DRYNESS OR IRRITATION OF NOSE, THROAT OR EYES.

Medical Cond Aggravated by Exposure:PERSONS WITH IMPAIRED PULMONARY FUNCTION, AIRWAY DIS

EASES AND CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, CHRONIC BRONCHITIS, ETC... CAN BE AGGRAVATED BY THE EXPOSURE TO METAL FUMES.

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First Aid Measures
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First Aid:GET MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.

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Fire Fighting Measures
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Flash Point:NONFLAMMABLE

Extinguishing Media:SOLID FORM IS NOT COMBUSTIBLE UNDER NORMAL CONDITIONS, USE MEDIA APPROPRIATE FOR OR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLES.

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Accidental Release Measures
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Spill Release Procedures:IN SOLID FORM THIS MATERIAL POSES NO SPECIAL CLEAN-UP PROBLEMS.

Neutralizing Agent:NOT RELEVANT

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H
andling and Storage
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Handling and Storage Precautions:STORAGE- STORE IN A DRY PLACE.

Other Precautions:AVOID BREATHING OF FUMES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING AND DRINKING. REMOVE CONTAMINATED CLOTHING. LAUNDRY BEFORE REUSE.

=====
Exposure Controls/Personal Protection
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Respiratory Protection:USE NIOSH APPROVED RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED

D SPACE OR WHERE

LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

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

Protective Gloves:FLAME-PROOF WELDING GLOVES

Eye Protection:SAFETY GLASSES UNDER WELDING HELMET

Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, WORK CLOTHING AND APRON FOR WELDING. SEE ANSI STD Z49.1, SAFETY IN WELDING AND CUTTING.

Work Hygienic Practices:OBSERVE

GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:NOT KNOWN

Spec Gravity:NOT KNOWN

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:INSOLUBLE

Appearance and Odor:PRODUCTS AS SHIPPED ARE NONHAZARDOUS, NONFLAMMABLE, NONEXPLOSIVE, NONREACTIVE

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

Stability Indicator

Materials to Avoid:YES

STRONG ACIDS

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:METAL FUMES, CARBON MONOXIDE, CARBON DIOXIDE, OZONE, NITROGEN OXIDES & OXIDES OF INGREDIENTS MAY BE FORMED.

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

Waste Disposal Methods:PRIOR TO DISPOSAL, CONSIDER IF MATERIAL HAS RECOVERY VALUE. DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. PREVENT WASTE FROM CONTAMINATING ENVIRONMENT.

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