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ALLOY RODS CORPORATION -- 8N12 MISCELLANEOUS ARCALOY HIGH ALLOY COVERED ELECTRODES -- 3439-00-238-5667

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

Product ID:8N12 MISCELLANEOUS ARCALOY HIGH ALLOY COVERED ELECTRODES

MSDS Date:02/15/1988

FSC:3439

NIIN:00-238-5667

MSDS Number: BZPFS === Responsible Party ===

Company Name: ALLOY RODS CORPORATION

Address: WILSON AVENUE

Box:517

City:HANOVER

State:PA ZIP:17331 Coun

try: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:TITANIUM

CAS:7440-32-6

RTECS #:XR1700000

Other REC Limits: NONE RECOMMENDED

Ingred Name: NIOBIUM (ALSO CALLED COLUMBIUM)

CAS:7440-03-1

Other REC Limits:NO

## NE RECOMMENDED

Ingred Name: FELDSPAR; (POTASSIUM FELDSPAR)

CAS:68476-25-5

Other REC Limits: NONE RECOMMENDED

Ingred Name:SODIUM METASILICATE

CAS:6834-92-0

RTECS #:VV9275000

Other REC Limits: NONE RECOMMENDED

Ingred Name: POTASSIUM TITANATE

CAS:12030-97-6

Other REC Limits: NONE RECOMMENDED

Ingred Name:IRON CAS:7439-89-6

RTECS #:NO4565500

Other REC Limits: NONE RECOMMENDED

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE)

CAS:1317-65-3

RTECS #:EV9580000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 5 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9596

Ingred Name:CRYOLITE (SODIUM ALUMINUM FLUORIDE)

CAS:15096-52-3 RTECS #:WA9625000

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; 9596

Ingred Name:SODIUM TITANATE

CAS:12034-34-3

Other REC Limits: NONE RECOMMENDED

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

LD50 LC50 Mixture:WELDING FUME 5MG/M3

(ACGIH). Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES Health Hazards Acute and Chronic:FUMES/GASES CAN BE DANGEROUS TO HEALTH.ARC RAYS CAN INJURE EYES/BURN SKIN.ELECTRIC SHOCK CAN KILL.ACUTE OVEREXPO TO WELDING FUMES:DISCOMFORT,DIZZ,NAU,DRYNESS,IRRIT OF NOSE/THROAT/EYES.CHRONIC OVEREXPO MAY LEAD TO SIDEROSIS(IRON DEPOSITS INLUNT),BELIEVED BY SOME INVETIGATORS TO AFFECT PULM FUNCTION. Explanation of Carcinoge nicity:PER MSDS:CARCINOGENICITY:NTP-NI,CR. IARC-NI,CR. OSHA-CR. (IF INGREDS CONTAIN THESE MATLS). Effects of Overexposure:INJURY TO EYES, BURN TO SKIN. DEATH FROM ELECTRIC SHOCK. DISCOMFORT, DIZZINESS, NAUSEA, DRYNESS, IRRITATION OF NOSE/THROAT/EYES. SIDEROSIS. Medical Cond Aggravated by Exposure:AGGRAVATION OF PRE-EXISTING RESPIRATORY OR ALLERGIC CONDITIONS MAY OCCUR IN SOME WORKERS.
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First Aid:CALL FOR MEDICA L AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.
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Flash Point:NP Autoignition Temp:Autoignition Temp Text:NP Lower Limits:NP Upper Limits:NP Extinguishing Media:NON-FLAMMABLE. Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER. Unusual Fire/Explosion Hazard:WELDING ARC & SPARKS CAN IGNITE COMBUSTIBLES. SEE Z-49.1
=========== Handling and Storage =============
Handlin g and Storage Precautions:MONITOR FUMES OF CR VI/NI/CU WHEN PRESENT IN INGRED.READ/UNDERSTAND MFG INSTRUCTIONS/PRECAUT LABEL ON PROD.REF:Z-49.1/OSHA 29CFR1910. Other Precautions:ONE RECOMMENDED WAY TO DETERMINE COMP/QUANT OF FUMES/GASES WORKERS EXPO:TAKE AIR SMPL INSIDE WELDER'S HELMET/BREATH ZONE.SEE ANSI/AWS F1.1 FROM AMER WELD SOC,POB351040,MIA,FL33135.TRAIN WELDER NOT TOU CH LIVE ELECT PARTS/INSULATE FRM WORK/GR

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

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Respiratory Protection: USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED SPACE OR WHERE LOCAL EXHASUT OR VNETILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation:USE ENOUGH VENT/LOC EXHA @ARC/BOTH TO KEEP FUME/GAS BEL TLV IN WORKER BREATH ZONE/GEN AREA.TRAIN WELD KEEP HEAD OUT FUME

Protective Gloves:WELDERS GLOVES

Eye Protection: FCSHIELD W/FILT LEN, FLASH/SCREEN GOGG.

Other Protective Equipment:WEAR HELMET/HEAD/HAND/BODY PROT FRM RAD

IATION/SPARKS/ELECT SHOCK.ARM/SHOULD PROT,APRONS,HATS,DARK SUBSTANTIAL CLOTH.

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

DECOMPO:USED, COAT ON METAL, #OF WELDERS/VOL IN WORKAREA, QUAL/AMT OF VENTI, POSITION FO WLEDER HEAD W/RESPECT TO FUME PLUME, PRESENCE OF CONTAMIN IN ATM.ELECTRODE CONSUMED FUNE/GAS DECOMPO PROD DIFFERENT IN %/FORM FROM INGREDS.REASONABLY EXPECT:FLUORIDES, COMPLEX OXIDES OF METALS IN PRODUCT, CO/CO2, OZONE, NITROGEN OXIDE

S.

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

HCC:N1

Boiling Pt:B.P. Text:NP

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

Decomp Temp:Decomp Text:NP

Vapor Pres:NP Vapor Density:NP

Spec Gravity:NP

pH:NP

Viscosity:NP

Evaporation Rate & Dr. Reference: NP

Solubility in Water:NP

Appearance and Odor:NP

Percent Volatiles by Volume:NP

Corrosion Rate:NP

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

NONE SPECIFIED BY MANUFACTURER. Stability Condition to Avoid:NONE SPEC

IFIED BY MANUFACTURER.
Hazardous Decomposition Products:WELDING FUMES CAN'T BE CLASSIFIED SIMPLY.COPO/QUANT DEPENDENT UPON METAL BEING WELDED/PROCESS/PROCEDURES/ELECTRODES(SUP)

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRO.DISCARD ANY PRODUCT RESIDUE/DISPOSABLE CNTNR/LINER IN ENVIRO ACCEPTABLE MANNER IN FULL COMPLIANCE W/FED/STATE/LOC REGULATIONS.

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