

TECHALLOY MARYLAND INC -- TECHALLOY-COVERED ELECTRODES FOR MMAW, 308L -
- 3439-00N022420

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

Product ID:TECHALLOY-COVERED ELECTRODES FOR MMAW, 308L
MSDS Date:09/01/1989
FSC:3439
NIIN:00N022420
MSDS Number: BLSJX
=== Responsible Party ===
Company Name:TECHALLOY MARYLAND INC
Address:2310 CHESAPEAKE AVE
City:BALTIMORE
State:MD
ZIP:21222
Country:US
Info Phone Num:301-633-9300, 800-638-1458
Emergency Phone Num:301-633-9300, 800-638-1458
CAGE:59711

==== Contractor Identification ===

Company Name:TECHALLOY COMPANY, INC.
Address:2310 CHESAPEAKE AVENUE
Box:City:BALTIMORE
State:MD
ZIP:21222
Country:US
Phone:410-633-9300; 800-638-1458
CAGE:59711

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

Ingred Name:SUPP DATA: WELDER'S GLOVES & PROT FSHLD & MAY INCLUDE ARM
PROTECTORS, APRONS, HATS, SHOULDER PROT, AND DARK (ING 19)
RTECS #:9999999ZZ

Ingred Name:ING 18: SUBSTANTIAL CLOTHING. TRAIN WELDER NOT TO TOUCH
LIVE ELEC PARTS & TO INSULATE HIMSELF FROM WORK AND GROUND.
RTECS #:9999999ZZ

Ingred Name:EXPLAN OF CARCIN: GROUP A1, NTP KNOWN HUMAN CARCINOGEN.
RTECS #:9999999ZZ

Ingred Name:POTASSIUM HYDROXIDE (SARA III)
CAS:1310-58-3
RTECS #:TT2100000
Fraction by Wt: 0-0.5%
OSHA PEL:C, 2 MG/M3
ACGIH TLV:C 2 MG/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: 30-50%
OSHA PEL:10 MG(Fe*20*3)/M3
ACGIH TLV:5 MG(Fe*20*3)/M3

Ingred Name:CHROMIUM (SARA III)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 15-25%
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 6-20%
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 1-3%
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: 0.1-1.0%
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:MOLYBDENUM
CAS:7439-98-7
RTECS #:QA4680000
Fraction by Wt: 0-4%
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3; 9293

Ingred Name:COLUMBIUM
CAS:7440-03-1
Fraction by Wt: 0-3%
OSHA PEL:5 MG/M3 (MFR)
ACGIH TLV:5 MG/M3 (MFR)

Ingred Name:TITANIUM DIOXIDE
CAS:13463-67-7
RTECS #:XR2275000
Fraction by Wt: 1-15%
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:POTASSIUM TITANATE
CAS:12030-97-6
Fraction by Wt: 0-3%
ACGIH TLV:10 MG/M3 (MFR)

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE)
CAS:1317-65-3
RTECS #:EV9580000
Fraction by Wt: 5-15%
OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name:FLUORSPAR (CALCIUM FLUORIDE)
 CAS:14542-23-5
 Fraction by Wt: 2-10%
 OSHA PEL:2.5 MG/M3 AS F
 ACGIH TLV:2.5 MG/M3 AS F

Ingred Name:SODIUM FLUOALUMINATE; (CRYOLITE)
 CAS:15096-52-3
 RTECS #:WA9625000
 Fraction by Wt: 0-5%
 OSHA PEL:2.5 MG/M3 AS F
 ACGIH TLV:2.5 MG/M3 AS F

Ingred Name:FELDSPAR
 CAS:68476-25-5
 Fraction by Wt: 0-3%
 ACGIH TLV:2 MG/M3 (MFR)

Ingred Name:CHROMIUM (III) OXIDE (2:3)
 CAS:1308-38-9
 RTECS #:GB6475000
 Fraction by Wt: 0-0.5%
 OSHA PEL:1 MG(CR)/M3
 ACGIH TLV:0.05 MG(CR)/M3

Ingred Name:POTASSIUM SILICATE
 CAS:1312-76-1
 Fraction by Wt: 0-2%
 ACGIH TLV:5 MG/M3 (MFR)

Ingred Name:SODIUM SILICATE
 CAS:1344-09-8
 Fraction by Wt: 1-5%
 ACGIH TLV:5 MG/M3 (MFR)

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 ===== Hazards Identification =====
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
 Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
 Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
 Health Hazards Acute and Chronic:SHORT-TERM OVEREXP TO WELDING FUMES
 MAY RESULT IN DISCOMFORT SUCH AS: DIZZ, NAUSEA/DRYNESS/IRRIT OF
 NOSE, THROAT/EYES, TIGHTNESS IN CHEST, FEVER & ALLERGIC REACTIONS.
 LONG TERM OVEREXP TO WELDING FUME S MAY LEAD TO SIDEROSIS (IRON
 DEPOSIT IN LUNGS) AND IS BELIEVED BY SOME INVESTIGATORS TO AFFECT
 PULMONARY FUNCTION.
 Explanation of Carcinogenicity:NICKEL: IARC GROUP 1, NTP KNOWN ANIMAL
 CARC/SUSP HUMAN CARC. CHROMIUM & CERTAIN CR CMPDS: IARC GROUP 1,
 ACGIH (ING 20)
 Effects of Overexposure:SEE HEALTH HAZARDS.HAZ DECOMP:COMPLEX OXIDES OF
 MANGANESE,SILICON,NICKEL,CHROMIUM & MOLYBDENUM ALONG WITH
 FLOURIDES. GASEOUS REACTION PRODUCTS MAY INCLUDE CARBON MONOXIDE,
 AND CARBON DIOXIDE. OZONE AN D NITROGEN OXIDES MAY BE FORMED BY THE
 RADITION FROM THE ARC. REFER TO ORIG.MSDS FOR FURTHER INFORMATION.
 Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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 ===== First Aid Measures =====
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First Aid:INHAL: REMOVE TO FRESH AIR, OBTAIN MEDICAL ATTENTION. EMPLOY
FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS. INGEST:
CALL MD IMMEDIATELY . EYES: IMMED FLUSH W/POTABLE WATER FOR AT LE
AST 15 MINUTES, SEEK ASSISTANCE FROM MD. SKIN: FLUSH W/COPIOUS
AMOUNTS OF WATER. CALL MD .

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Fire Fighting Measures
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Extinguishing Media:USE MEDIA SUITABLE FOR SURROUNDING FIRE .
Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA AND FULL
PROTECTIVE EQUIPMENT .
Unusual Fire/Explosion Hazard:WELDING ARC & SPKS CAN IGNITE COMBUSTS &
FLAMMS. REFER TO AMERICAN NATIONAL STANDARD Z49.1 FOR FIRE
PREVENTION DURING THE USE OF WELDING & ALLIED PROCEDURES.

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Accidental Release Measures
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Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage
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Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.
Other Precautions:TRAIN THE WELDER NOT TO TOUCH LIVE ELECTRICAL PARTS
AND TO INSULATE HIMSELF FROM WORK AND GROUND. USE EXHAUST SYSTEM TO
CLEAR WELDING FUMES. MAKE SURE THAT INHALED AIR DOES NOT CONTAIN
FUME CONSTITUEN TS ABOVE PERMISSIBLE EXPOSURE LEVELS.

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Exposure Controls/Personal Protection
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Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRABLE FUME
RESPIRATOR/AIR SUPPLIED RESPIRATOR WHEN WELDING IN A CONFINED SPACE
OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW
THE RECOMMENDED EXPOSURE LIMIT.
Ventilation:USE ENOUGH VENT, LOCAL EXHAUST AT ARC/BOTH, TO KEEP THE
FUMES & GASES FROM THE WORKER'S BRTHG ZONE & THE GEN (SUPP DATA)
Protective Gloves:WELDER'S GLOVES.
Eye Protection:WEAR HELMET/USE FSHLD W/FILTER (SUP DAT)
Other Protective Equipment:WEAR HAND, HEAD & BODY PROT WHICH HELP TO
PVNT INJURY FROM RADIATION, SPKS & ELEC SHOCK. SEE ANSI Z49.1.
(SUPP DATA)
Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.
Supplemental Safety and Health
VENT:AREA. TRAIN WELDER TO KEEP HEAD OUT OF FUMES. EYE PROT:LENS.
PROVIDE PROT SCREENS & FLASH GOG, IF NEC, TO SHIELD OTHERS. AS A
RULE OF THUMB START W/A SHADE THAT IS TOO DARK TO SEE WELD ZONE.
THEN GO TO NEXT LIGHTER SHADE WHICH GIVES SUFFICIENT VIEW OF WELD
ZONE. OTHER PROT EQUIP:AT A MIN THIS INCLUDES (SEE ING 18)

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Stability and Reactivity Data
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Stability Indicator/Materials to Avoid:YES
NONE
Stability Condition to Avoid:NONE; UNLESS OTHERWISE SPECIFIED.
Hazardous Decomposition Products:REASONABLY EXPECTED FUME CONSTITUENTS
OF THESE PRODUCTS COULD INCLUDE PRIMARY OXIDES OF IRON;
SECONDARILY(SIGNS & SYMP)

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Disposal Considerations
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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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