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Product ID: TECHALLOY COVERED ELECTRODES, 7018 MSDS Date:09/01/1989 FSC:3439 NIIN:00-465-1919 **MSDS Number: BSYKB** === 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

Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500 Fraction by Wt: 55-70% OSHA PEL:10 MG/M3 ACGIH TLV:5 MG/M3

Ingred Name:MANGANESE (SARA III) CAS:7439-96-5 RTECS #:OO9275 000 Fraction by Wt: 0.5-2% Other REC Limits:1 MG/M3;3 STEL(FUME) OSHA PEL:5 MG/M3 DUST, C ACGIH TLV:5 MG/M3 DUST

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 Fraction by Wt: 0.1-1% Other REC Limits:3 MG/M3 (SIO*2) OSHA PEL:10MG/M3 TDUST;5 RESP ACGIH TLV:10MG/M3 TDUST

Ingred Name:CHROMIUM (SARA III) CAS:7440-47-3 RTECS #:GB4200000 Fraction by Wt: 0-3.5% OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:MOLYBDENUM CAS:7439-98-7 RTECS #:QA4680000 Fraction by Wt: 0-1% Other REC Limits:15 MG/M3 (MFR) OSHA PEL:10 MG/M3 TDUST ACGIH TLV:10 MG/M3

Ingred Name:CALCIUM CARBONATE CAS:1317-65-3 RTECS #:EV9580000 Fraction by Wt: 5-12% OSHA PEL:15MG/M3 TDUST;5 RESP ACGIH TLV:10MG/M3 TDUST

Ingred Name:FLUORSPAR; (CALCIUM FLUORIDE) CAS:14542-23-5 Fraction by Wt: 3-10% OSHA PEL:2.5 MG/M3 (AS F) ACGIH TLV:2.5 MG/M3 (AS F)

Ingred Name:POTASSIUM TITANATE CAS:12030-97-6 Fraction by Wt: 0-2% OSHA PEL:N/K ACGIH TLV:10 MG/M3 (MFR)

Ingred Name:FELDSPAR CAS:68476-2

5-5 Fraction by Wt: 0-2% OSHA PEL:N/K ACGIH TLV:2 MG/M3 (MFR)

Ingred Name:ALUMINUM OXIDE (2:3); (ALPHA-ALUMINA) (ALUMINUM OXIDE) (EPA LISTS ONLY FIBROUS FORMS) (SARA III) CAS:1344-28-1 RTECS #:BD1200000 Fraction by Wt: 0-1% Other REC Limits:5 MG/M3 (MFR) OSHA PEL:10 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST (AL)

Ingred Name:SILICON DIOXIDE CAS:7631-86-9 Fraction by Wt: 0-2% OSHA PEL:5 MG/M3 (MFR) ACGIH TLV:3 MG/M3 (MFR)

Ingred Name:TITANIUM OXIDE; (TITANIUM DIOXIDE) CAS:13463-67-7 RTECS #:X R2275000 Fraction by Wt: 0-3% Other REC Limits:15 MG/M3 (MFR) OSHA PEL:10 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST

Ingred Name:POTASSIUM SILICATE CAS:1312-76-1 Fraction by Wt: 0-3% OSHA PEL:N/K ACGIH TLV:5 MG/M3 (MFR)

Ingred Name:SODIUM SILICATE CAS:1344-09-8 Fraction by Wt: 0-5% OSHA PEL:N/K ACGIH TLV:5 MG/M3 (MFR)

Ingred Name:SODIUM FLUOALUMINATE; (CRYOLITE) CAS:15096-52-3 RTECS #:WA9625000 Fraction by Wt: 0-2% OSHA PEL:2.5 MG/M3(AS F)(MFR) ACGIH TLV:2.5 MG/M3(AS F)(MFR)

Ingred Name:MAGNESIU

M (II) CARBONATE (1:1); (MAGNESITE) CAS:546-93-0 RTECS #:OM2470000 Fraction by Wt: 0-2% OSHA PEL:15MG/M3 TDUST;5 RESP ACGIH TLV:10MG/M3 TDUST

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

Ingred Name:SUPDAT:NITROGEN OXIDES MAY BE FORMED BY RADIATION FROM THE ARC. CONTACT NEHC FOR FURTHER INFO . RTECS #:9999999ZZ

Ingred Name:OTHER PREC:WELDING & CUTTING, & WELDING HANDBOOK", VOL 1, CH 9, "SAFE PRACTS IN WELDING & CUTTING", AVAIL FROM (ING 20) RTECS #:99999992Z

Ingred Name:ING 19:AMERICAN WELDING SOCIETY, INC, 550 W. LE JEUNE RD, P.O. BOX 351040, MIAMI, FL 33135, TEL (800)443-9353. RTECS #:9999999ZZ

Ingred Name:EYE PROT:LENS. PROVIDE PROT SCREENS & FLASH GOGGS, IF NEC, TO SHIELD OTHERS. AS RULE OF THUMB START W/SHADE THAT(ING 22) RTECS #:9999999ZZ

Ingred Name:ING 21:IS TOO DARK TO SEE WELDING ZONE. THEN GO TO NEXT LIGHTER SHADE WHICH GIVES SUFFICIENT VIEW OF WELD ZONE. RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP:INCLS WELDER'S GLOVES & PROT FACE SHLD, & MAY INCL ARM PROTECTORS, APRONS, HATS, SHOULDER PROT,(ING 24) RTECS #:9999999ZZ

Ingred Name:ING 23:AS WELL AS DARK SUBSTANTIAL CLOTHING. RTECS #:9999999ZZ

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:Y

ES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ELEC ARC-WELDING MAY CREATE ONE/MORE OF FOLLOWING HLTH HAZS:FUMES & GASES CAN BE DANGEROUS TO YOUR HLTH. ARC RAYS CAN INJURE EYES & BURN SKIN. ELEC SHOCK CAN KILL. ACUTE:SHORT-TERM OVEREXP TO WELDING FUMES MAY RSLT IN DISCOMFORT SUCH AS DIZZ, NAUS OR DRYNESS/IRRIT OF NOSE, THROAT/EYES, TIGHTNESS
IN (EFTS OF OVEREXP) Explanation of Carcinogenicity:CHROMIUM:IARC MONOGRAPHS, VOL 49, PG 49,
1990:GRP 1. NTP 7TH ANNUAL
RPT ON CARCINS, 1992:KNOWN TO BE CARCINOGENIC.
Effects of Overexposure:HLTH HAZ:CHEST, FEVER & ALLERGIC RXNS. CHRONIC:LONG-TERM OVEREXP TO WELDING FUMES MAY LEAD TO SIDEROSIS (IRON DEPOSIT IN LUNGS) & IS BELIEVED BY SOME INVESTIGATORS TO AFFECT PULMONARY FUNCTION.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.
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First Aid:REMOVE TO FRESH AIR, OBTAIN MEDICAL ATTENTION. EMPLOY FIRST AID TE
CHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS. INGEST:CALL MD IMMEDIATELY . INHAL:REMOVE TO FRESH AIR. SUPPORT BREATHING (GIVE O*2/ARTF RESP) . EYES:IMMEDIATELYFLUSH W/POTABLE WATER FOR A MINIMUM OF 15 MINUTES, SEEK ASSISTANCE FROM MD . SKIN:FLUSH W/COPIOUS AMOUNTS OF WATER. CALL MD .
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Extinguishing Media:MEDIA SUITABLE FOR SURROUNDING FIRE . Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA & FULL PROTEC TIVE
EQUIPMENT . Unusual Fire/Explosion Hazard:SPARKS CAN IGNITE COMBUSTIBLES & FLAMMABLES. REFER TO ANSI Z29.1 FOR THE USE OF WELDING & ALLIED PROCEDURES.
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Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.
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Handling and Storage Precautions:READ & UNDERSTAND MFR'S INSTRUCTIONS & PREC LBL ON PROD. TRAIN WELDER TO KEEP HIS HEAD OUT OF FUMES. USE

EXHST SYS TO CLEAR WELDING FUMES.

Other Precautions: TRAIN WELDER NOT TO TOUCH LIVE ELEC PARTS & TO INSULATE HIMSELF FROM WORK & GROUND. MAKE SURE THAT INHALED AIR DOES NOT CNTN CONSTITUENTS ABOVE PELS. OTHER PRECS FOR ADDNL SAFETY INFO ON WELDING & CUT TING, SEE ANSI Z49.1, "SAFETY IN(ING 19)

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING I

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SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW RECOMMENDED EXPOSURE LIM IT.

- Ventilation: USE ENOUGH VENT, LOCAL EXHAUST AT ARC, OR BOTH, TO KEEP FUMES & GASES FROM WORKER'S BREATHING ZONE & GENERAL AREA. Protective Gloves: WELDER'S GLOVES.
- Eye Protection: WEAR HELMET/FACE SHLD W/FILTER (ING 21)
- Other Protective Equipment:WEAR HAND, HEAD & BODY PROT WHICH HELP TO PVNT INJURY FROM RADIA, SPKS & ELEC SHOCK. SEE ANSI Z49.1. AT MIN THIS(ING 23)

Wo

rk Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

HAZ DECOMP PROD:OXIDES OF MANGANESE, SILICON, CHROMIUM, MOLYBDENUM ALONG W/FLUORIDES. COMPOSITION & QUALITY OF WELDING FUMES & GASES DEPEND ON METAL BEING WELDED, PROCESS, ELECTRODES, COATINGS ON META L BEING WELDED, WORK AREA CONDITIONS, ETC. GASEOUS PRODS MAY INCLUDE CARBON MONOXIDE & CARBON DIOXIDE. OZONE & (ING 18)

Appeara

nce and Odor:NONE SPECIFIED BY MANUFACTURER.

Stability Indicator/Materials to Avoid:YES

NONE

Stability Condition to Avoid:NONE, UNLESS OTHERWISE SPECIFIED. Hazardous Decomposition Products:REASONABLY EXPECTED FUME CONSTITUENTS OF THESE PRODS COULD INCL PRIMARILY OXIDES OF IRON; SECONDARILY COMPLEX (SUPDAT)

Waste Disposal Methods:PREVENT WASTE FROM CO

NTAMINATING SURROUNDING

ENVIRONMENT. DISCARD ANY PRODUCT RESIDUE IN DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE W/FEDERAL, STATE & LO CAL REGULATIONS.

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