

TECHALLOY MARYLAND INC, REID-AVERY DIV. -- MIL-11018-M WELDING ELECTRODE --  
3439-00-165-4165

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

Product ID:MIL-11018-M WELDING ELECTRODE

MSDS Date:11/01/1985

FSC:3439

NIIN:00-165-4165

MSDS Number: BDDSV

=== Responsible Party ===

Company Name:TECHALLOY MARYLAND INC, REID-AVERY DIV.

Address:2310 CHESAPEAKE AVE.

City:BALTIMORE

State:MD

ZIP:21222-4012

Emergency Phone N

um:301-633-9300

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

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

Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

Ingred Name:MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:OO9275000

OSHA PEL:(C) 5 MG/M3 DUST

ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:SILICON

CAS:7440-21-3

RT

ECS #:VW0400000  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9293

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

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

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE)  
CAS:1317-65-3  
RTECS #:EV9580000  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name:NICKEL (SARA II  
I)  
CAS:7440-02-0  
RTECS #:QR5950000  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9192

Ingred Name:POTASSIUM TITANATE  
CAS:12030-97-6

Ingred Name:SODIUM SILICATE  
CAS:6834-92-0  
RTECS #:VV9275000  
ACGIH TLV:5 MG/CUM

Ingred Name:FELDSPAR  
CAS:68476-25-5

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

Ingred Name:COLUMBIUM  
CAS:7440-03-1  
OSHA PEL:5 MG/CUM  
ACGIH TLV:5 MG/CUM

Ingred Name:CALCIUM FLUORIDE  
CAS:7789-75-5  
RTECS #:EW1760000  
OSHA PEL:2.5 MG/M3

(F)  
ACGIH TLV:2.5 MG/M3 (F); 8990

Ingred Name:ALUMINUM SODIUM FLUORIDE (SODIUM FLUOALUMINATE OR CRYOLITE)  
CAS:15096-52-3  
RTECS #:WA9625000  
OSHA PEL:2.5 MG/M3 (F)  
ACGIH TLV:2.5 MG/M3 (F); 8990

Ingred Name:CHROMIUM (III) OXIDE  
CAS:1308-38-9  
RTECS #:GB6475000  
OSHA PEL:0.5 MG/M3 (CR)  
ACGIH TLV:0.5 MG/M3 (CR); 8990

Ingred Name:POTASSIUM SILICATE  
CAS:1312-76-1  
ACGIH TLV:5 MG/CUM

Ingred Name:POTASSIUM HYDROXIDE (SARA III)  
CAS:1310-58-3  
RTECS #:TT2100000  
OSHA PEL:C, 2 MG/M3  
ACGIH TLV:C 2 MG/M3; 919  
2  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

=====  
===== 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:ACUTE:MAY RESULT IN DISCOMFORT SUCH AS  
DIZZINESS,NAUSEA,DRYNESS OR IRRITATION OF NOSE,THROAT OR  
EYES,TIGHTNESS IN CHEST,FEVER & ALLERGIC REACTIONS. CHRONIC:MAY  
LEAD TO SIDEROSIS & IS BELIEVED BY SOME INVESTIGATORS TO AFFECT

PULMONARY FUNCTION.

Explanation of Carcinogenicity:NICKEL & CHROMIUM ARE LISTED AS  
CARCINOGENIC.

Effects of Overexposure:SEE "HEALTH HAZARDS".  
Medical Cond Aggravated by Exposure:NONE STATED

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

First Aid:REMOVE TO FRESH AIR.IF BREATHING IS DIFFICULT,ADMINISTER  
OXYGEN,IF BREATHING HAS STOPPED,APPLY ARTIFICIAL RESPIRATOR; GET  
MEDICAL HELP.

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

Extingui

shing Media:USE PROPER MEDIA FOR SURROUNDING FIRE.  
Fire Fighting Procedures:NEED TO WEAR PROTECTIVE EQUIPMENT.  
Unusual Fire/Explosion Hazard:WELDING ARC & SPARKS CAN IGNITE  
COMBUSTIBLES.

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

Spill Release Procedures:SWEEP UP OR SCOOP UP.

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

Handling and Storage Precautions:USE EXHAUST SYSTEM TO CLEAR WELDING  
FUMES.

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

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

Ventilation:USE ADEQUATE GENERAL VENTILATION & LOCAL EXHAUST AT THE  
ARC.

Protective Gloves:WELDER'S GLOVES

Eye Protection:HELMET/FACE SHIELD WITH FILTER LENS.

Other Protective Equipment:WEAR PROTECTIVE CLOTHING.

Supplemental Safety and Health

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

HCC:N1

Solubility in Water:INSOLUBLE

Appearance and Odor:SOLID WIRE OR ROD.

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES  
NONE

Stability Condition to Avoid:NONE STATED

Hazardous Decomposition Products:IT IS COMPLEX & CAN NOT BE CLASSIFIED  
EASILY,DEPENDING ON THE ELECTRODE USED,COATING & CONTAMINANTS IN  
THE ATMOSPHERE.

===== Disposal Co

nsiderations =====

Waste Disposal Methods:DISCARD ANY PRODUCT RESIDUE,DISPOSABLE CONTAINER  
OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER.

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