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TECHALLOY MARYLAND INC. REID-AVERY DIV. -- AWS 316 WELDING ELECTRODE 3439-01-039-4382

Product ID: AWS 316 WELDING ELECTRODE MSDS Date:11/01/1985 FSC:3439 NIIN:01-039-4382 **MSDS Number: BGSLH** === Responsible Party === Company Name: TECHALLOY MARYLAND INC. REID-AVERY DIV. Address:2310 CHESAPEAKE AVE City:BALTIMORE State:MD ZIP:21222-4012 Emergency Phone Num: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 Ingred Name:IRON

Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500

Ingred Name:CHROMIUM (SARA III) CAS:7440-47-3 RTECS #:GB4200000 Fraction by Wt: 17-20% OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3; 9192 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

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ngred Name:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: 11-14% OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9192

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 RTECS #:VW0400000 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: 2-2.5% OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3; 9293

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. Medical Cond Aggravated by Exposure:NONE STATED

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

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

Spill Release Procedures: SWEEP UP OR SCOOP UP.

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

Respiratory Protection:USE RESPIRABLE FUME RESPIRATORY OR AIR SUPPLIED RESP

IRATOR 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

HCC:N1 Solubility in Water:INSOLUBLE Appearance and Odor:SOLID WI RE OR ROD. Percent Volatiles by Volume:0

Stability Indicator/Materials to Avoid:YES

NONE

Stability Condition to Avoid:NONE STATED.

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

Waste Disposal Methods: DISCARD ANY PRODUCT RESIDUE, DISPOSABLE CONTAIN

## ER OR LINER IN AN ENVIROMENTALLY ACCEPTABLE MANNER.

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