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

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

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:301-63

3-9300

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: 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

Ingred 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
====== 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.
Medical Cond Aggravated by Exposure:NONE STATED
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First Aid:REMOVE TO FRESH AIR.IF BREATHING IS DIFFICULT,ADMINISTER OXYGEN,IF BREATHING GAS STOPPED,APPLY ARTIFICIAL RESPIRATOR, GET MEDICAL HELP.
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Extinguishing Media:USE PROPER MEDIA FOR SURROUNDING FIRE. Fire Fighting Procedures:NEED TO WEAR PROTECTIVE EQUIPM

ENT. 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 RES
PIRATOR 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 W IRE 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 GASILY,DEPENDING ON THE ELECTRODE USED,COATING & CONTAMINANTS IN THE ATMOSPHERE.
======== Disposal Considerations ===========
Waste Disposal Methods:DISCARD ANY PRODUCT RESIDUE,DISPOSABLE CONTAI

NER OR LINER IN AN ENVIROMENTALLY ACCEPTABLE MANNER.

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