

TECHALLOY MARYLAND INC, REID-AVERY DIV. -- TECHALLOY AWS 309/316L/347 --  
3439-00-995-6750

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

Product ID:TECHALLOY AWS 309/316L/347  
MSDS Date:09/01/1989  
FSC:3439  
NIIN:00-995-6750  
MSDS Number: BGCHL  
=== Responsible Party ===  
Company Name:TECHALLOY MARYLAND INC, REID-AVERY DIV.  
Address:2310 CHESAPEAKE AVE.  
City:BALTIMORE  
State:MD  
ZIP:21222-4012  
Country:US  
Info Phone Nu  
m: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

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

Ingred Name:IRON  
CAS:7439-89-6  
RTECS #:NO4565500  
Fraction by Wt: 45-80%  
Other REC Limits:5 MG/M3

Ingred Name:CHROMIUM (SARA III)  
CAS:7440-47-3  
RTE

CS #:GB4200000  
Fraction by Wt: 11-32%  
Other REC Limits:NONE SPECIFIED BY M.  
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: 4-37%  
Other REC Limits:NONE SPECIFIED BY M.  
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: 0.5-2.5%  
Other REC Limits:NONE SPECIFIED BY M.  
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%  
Other REC Limits:3 MG/M3 AS SIO2  
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%  
Other REC Limits:NONE SPECIFIED BY M.  
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:Y

ES OSHA:NO

Health Hazards Acute and Chronic:SHORT TERM EXPOSURE TO WELDING FUMES, GASES OR DUST MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT AND EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. A CUTE EXPOSURE FROM SOME TOXIC GASES MAYCAUSE PULMONARY EDEMA, ASPHYXIATION AND EXCESSIVE EXPOSURE CAN BE FATAL.

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

Effects of Overexposure:COUGHING, DIFFICULTY IN BREATHING, DIZZINESS, NAUSEA.

Medical Cond Aggravated by Exposure:PULMONARY DISEASES.

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

First Aid:INHALATION:REMOVE TO FRESH AIR, PROVIDE CPR/OXYGEN IF NEEDED. EYE CONTACT:FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL HELP. SKIN CONTACT:COOL BURNS WITH ICE WATER,WASH METAL POWDER WITH SOAP AND WATER. GET MED ATTENTION BURNS. INGESTION:DRINK 1-2 GLASSES OF WATER. GET MEDICAL HELP IMMEDIATELY.

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

Extinguishing 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.

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

Spill Release Procedures:WEAR DUST MASK FOR DUSTY CONDITIONS. PICK UP OR SCOOP UP RODS FOR REUSE OR DISPOSAL.

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

Handling and Storage Precautions:STORE AT A DRY PLACE.

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

Respiratory Protection:USE AIR SUPPLIED RESPIRATOR OR SCBA 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 Equipme

nt:WEAR PROTECTIVE CLOTHING.

Work Hygienic Practices:WEAR PROTECTIVE GLSSES FOR ARC RAYS. WASH HANDS BEFORE EATING OF DRINKING.

Supplemental Safety and Health

FUMES, GASES, ARC RAYS AND ELECTRIC SHOCK CAN BE DANGEROUS TO YOUR HEALTH. FOR MORE INFO SEE ASZ 49.1-1983.

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

HCC:N1

Solubility in Water:INSOLUBLE

Appearance and Odor:SOLID WIRE OR ROD.

Percent Volatiles by Volume:0

===== Stability and Reactivity Dat

a =====

Stability Indicator/Materials to Avoid:YES

NONE

Stability Condition to Avoid:NONE STATED

Hazardous Decomposition Products:OXIDES OF

IRON,CHROMIUM,NICKLE,MANGANESE,SILICON AND MOLYBDENUM.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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