

TECHALLOY MARYLAND INC REID-AVERY DIVISION -- TECHALLOY -- 3439-00-088-8989

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Product Identification  
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Product ID:TECHALLOY

MSDS Date:09/01/1989

FSC:3439

NIIN:00-088-8989

MSDS Number: BPXCL

=== Responsible Party ===

Company Name:TECHALLOY MARYLAND INC REID-AVERY DIVISION

Address:2310 CHESAPEAKE AVE

City:BALTIMORE

State:MD

ZIP:21222-4012

Country:US

Info Phone Num:301-633-9300 OR 800-638-14

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Emergency Phone Num:301-633-9300 OR 800-638-1458

CAGE:59711

=== Contractor Identification ===

Company Name:AUFHAUSER CORP

Address:39 WEST MALL

Box:City:PLAINVIEW

State:NY

ZIP:11803-4209

Country:US

Phone:212-757-6824/FAX: 516-694-8690

CAGE:59401

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

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Composition/Information on Ingredients  
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Ingred Name:NICKEL

(SARA III)  
CAS:7440-02-0  
RTECS #:QR5950000  
Fraction by Wt: 35-99%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9293

Ingred Name:IRON  
CAS:7439-89-6  
RTECS #:NO4565500  
Fraction by Wt: 0-20%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG/M3  
ACGIH TLV:10 MG/M3 AS FE2O3

Ingred Name:CHROMIUM (SARA III)  
CAS:7440-47-3  
RTECS #:GB4200000  
Fraction by Wt: 0-26%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:0.5 MG/M3; 9293  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:MOLYBDENUM  
CAS:7439-98-7  
RTECS #:QA4680000  
Fraction by Wt: 0-30%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3; 9293

Ingred Name:MANGANESE (SARA III)  
CAS:7439-96-5  
RTECS #:OO9275000  
Fraction by Wt: 0.1-4%  
Other REC Limits:NONE RECOMMENDED  
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: .1-1.25%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9293

In

gred Name:NIOBIUM  
CAS:7440-03-1  
Fraction by Wt: 0-5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG/M3  
ACGIH TLV:5 MG/M3

Ingred Name:COPPER (SARA III)  
CAS:7440-50-8  
RTECS #:GL5325000  
Fraction by Wt: 0-30%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.1MG/M3 FUME/1 DUST  
ACGIH TLV:0.2MG/M3 FUME; 9293  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ALUMINUM (SARA III)  
CAS:7429-90-5  
RTECS #:BD0330000  
Fraction by Wt: 0-2%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15MG/M3 DUST/5 FUME  
ACGIH  
TLV:10MG/M3 DUST; 9293

Ingred Name:TITANIUM, METAL  
CAS:7440-32-6  
RTECS #:XR1700000  
Fraction by Wt: 0-3.5%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:VANADIUM (SARA III)  
CAS:7440-62-2  
RTECS #:YW1355000  
Fraction by Wt: 0-.6%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C,0.5 MG V2O5/M3 RD  
ACGIH TLV:0.05 MG V2O5/M3;9293

Ingred Name:TUNGSTEN  
CAS:7440-33-7  
RTECS #:YO7175000  
Fraction by Wt: 0-4.5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG/M3/ 10 STEL  
ACGIH TLV:5 MG/M3/10 STEL;9293

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Hazards Identification  
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LD50 LC50 Mixture:UNCLASSIFIED WELDING FUMES=5MG/M3 PEL

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: OVEREXPOSURE TO WELDING FUMES,  
GASES OR DUST MAY RESULT IN DISCOMFORT. CHRONIC: OVEREXPOSURE CAN  
LEAD TO SIDEROSIS & IS BELIEVED TO AFFECT PULMONARY FUNCTION.

Explanation of Carcinogenicity:RESPIRATORY CANCER FROM WELDING IS  
UNCONFIRMED.

Effects of Overexposure:EXPOSURE TO WELDING FUMES MAY RESULT IN  
DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT  
AND EYES.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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First Aid Measures  
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First Aid:REMOVE TO FRESH AIR, OBTAIN MEDICAL ATTENTION. EMPLOY FIRST  
AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.

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Fire Fighting Measures  
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Unusual Fire/Explosion Hazard:WELDING ARCS & SPARKS CAN IGNITE  
COMBUSTIBLES & FLAMMABLES. REFER TO AMERICAN NATIONAL STANDARD  
Z49.1 FOR FIRE PREVENTION DURING WELDING & ALLIED PROCEDURES.

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Handling and Storage  
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Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

Other Precautions:FUMES AND GASES CAN BE DANGEROUS TO YOUR HEALTH. ARC  
RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.

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Exposure Co  
ntrols/Personal Protection  
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Respiratory Protection:USE WELD FUME RESPIRATOR OR AIR SUPPLIED  
RESPIRATOR WHEN CUTTING, GRINDING OR WELDING IN A CONFINED SPACE OR  
WHERE LOCAL EXHAUST OR GENERAL VENTILATION DOES NOT KEEP EXPOSURE  
BELOW RECOMMENDED LIMITS. USE ONLY NIOSH APPROVED RESPIRATORS.

Ventilation:USE ENOUGH VENTILATION WHEN CUTTING, GRINDING OR WELDING TO  
KEEP THE DUST, FUMES & GASES FROM THE WORKERS BREATHING ZONE

Protective Gloves:WELDERS LEATHER GLOVES

Eye P

rotection:OSHA APPROVED GOGGLES/FACE SHIELD W/LENS

Other Protective Equipment:FLAME RETARDANT CLOTHING WHEN CUTTING,  
GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT  
CUTTING OR WELDING.

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR SMOKING.  
LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

WELDING AND HOT CUTTING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY.  
THEIR COMPOSITION AND QUANTITY ARE DEPENDENT ON THE METAL BEING  
WELDED,

THE PROCEDURES, PROCESSES AND THE TYPE OF WIRE OR  
ELECTRODES USED. OTHER INFLUENCING FACTORS ARE THE PRESENCE OF  
CONTAMINANTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES.

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

HCC:N1

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

Stability Indicator/Materials to Avoid:YES

NONE.

Stability Condition to Avoid:NONE, UNLESS OTHERWISE SPECIFIED.

Hazardous Decomposition Products:WELDING AND CUTTING OP  
ERATION MAY

INCLUDE OXIDES OF IRON & COMPLEX OXIDES OF MN, SI, & AL; CO, CO2, &  
OZONE.

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING ENVIRONMENT.

DISCARD ANY PRODUCT RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN  
ENVIRONMENTALLY ACCEPTABLE MANNER, I/AW FEDERAL, STATE & LOCAL  
REGULATIONS

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