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TECHALLOY MARYLAND INC REID-AVERY DIVISION -- E6011 TECHALLOY -- 3439-00-262-2652

Product ID:E6011 TECHALLOY MSDS Date:09/01/1989 FSC:3439 NIIN:00-262-2652 MSDS Number: BJRMN === 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 800-638-1458 Emergency Phone Num:301-633-9300 OR 800-638-1458 CAGE:59711 === Contractor Identification === Company Name: KAMPI COMPONENTS CO., INC. Address:210 RT 13 Box:721 City:BRISTOL State:PA ZIP:19007-3517 Country:US Phone:215-736-2000 CAGE:7Z016 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

CAS:7439-89-6 RTECS #:NO4565500 Fraction by Wt: 65-85% Other REC Limits:NONE SPECIFIED

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

Ingred Name:TITANIUM DIOXIDE CAS:13463-67-7 RTECS #:XR2275000 Fraction by Wt: 1-15% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:CELLULOSE (PAPER FIBER) CAS:9004-34-6 RTECS #:FJ5691460 Fraction by Wt: 0.5-10% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3; 9192

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE) CAS:1317-65-3 RTECS #:EV9580000 Fraction by Wt: 1-5% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name:SILICA GEL CAS:112945-52-5 RTECS #:VV7310000 Fraction by Wt: 1-5% Other REC Limits:NONE SPECIFIED

Ingred Name:POTASSIUM TITANATE CAS:12030-97-6 Fraction by Wt: 0-3% Other REC Limits:NONE SPECIFIED

Ingred Name:SODIUM TITANATE CAS:12034-34-3 Fraction by Wt: 0-2% Other REC Limits:NONE SPECIFIED

Ingred Name:POTASSIUM ALUMINUM SILICATE (FELDSPAR) CAS:68476-25-5 Fraction by Wt: 0-3% Other REC Limits:NONE SPECIFIED

Ingred Name:IRON OXIDE CAS:1309-38-2 RTECS #:OM4800000 Fraction by Wt: 0-5% Other REC Limits:NONE SPECIFIED OSH A PEL:5 MG/M3 ACGIH TLV:10 MG/M3 (AS FE203)

Ingred Name:GRAPHITE, NATURAL CAS:7782-42-5 RTECS #:MD9659600 Fraction by Wt: 0-5% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MPPCF RDUST ACGIH TLV:2 MG/M3 RDUST; 9293

Ingred Name:ALPHA-ALUMINA (ALUMINUM OXIDE) (EPA LISTS ONLY FIBROUS FORMS) (SARA III) CAS:1344-28-1 RTECS #:BD1200000 Fraction by Wt: 0-2% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:POTASSIUM SILICATE CAS:1312-76-1 Fraction b y Wt: 0-5% Other REC Limits:NONE SPECIFIED

Ingred Name:SODIUM SILICATE CAS:1344-09-8 Fraction by Wt: 0-5% Other REC Limits:NONE SPECIFIED

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

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

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

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 Protection: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 CONTAMINATIED 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 THEPRESENCE OF CONTAMINANTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES.

HCC:V7

Stability Indicator

/Materials to Avoid:YES

NONE.

Stability Condition to Avoid:NONE, UNLESS OTHERWISE SPECIFIED. Hazardous Decomposition Products:WELDING AND CUTTING OPERATION MAY INCLUDE OXIDES OF IRON & COMPLEX OXIDES OF MN, SI, & AL; CO, CO2, & OZONE.

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING ENVIRONMENT. DISCARD ANY PRODUCT RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, I/A/W FEDE

RAL, STATE & LOCAL REGULATIONS

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