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Product ID:NICKEL/GRAPHITE POWDER MSDS Date:04/05/1986 FSC:3439 NIIN:01-034-1253 MSDS Number: BKBMH === Responsible Party === Company Name: MILLER THERMAL TECHNOLOGIES, INC., ALLOYS INTL. DIV. Address:1901 ELLIS SCHOOL ROAD City:BAYTOWN State:TX ZIP:77521-1215 Country:U S Info Phone Num:713-426-5535 Emergency Phone Num:713-426-5535 CAGE:06677 === Contractor Identification === Company Name: HARDFACE ALLOYS, INC. (213-945-5477) CAGE:0B4K3 Company Name: MILLER THERMAL TECHNOLOGIES, INC., ALLOYS INTL. DIV. Address:1901 ELLIS SCHOOL ROAD Box:City:BAYTOWN State:TX ZIP:77521-1215 Country:US Phone:713-426-5535 CAGE:06677

Ingred Name:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Other REC Limits:NON E SPECIFIED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9192

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

LD50 LC50 Mixture:UNCLASSIFIED WELDING FUMES=5MG/M3 PEL Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:MAY CAUSE LUNG CHANGES. MAY CAUSE RESPIRATORY IRRITATION & DISEASE. CAN CAUSE METAL FUME FEVER, AFFECT THE NERVOUS SYSTEM & RESPIRATORY SYSTEM DISEASE. NICKEL:

MAY CAUSE RESPIRATORY DISEASE & ALLERG IC SKIN RASH.

Explanation of Carcinogenicity:NICKEL HAS BEEN IDENTIFIED BY IARC AND/OR NTP AS POTENTIAL CANCER CAUSING AGENT.

Effects of Overexposure:EXPOSURE TO WELDING FUMES MAY CAUSE METAL FUME FEVER WITH SYMPTOMS OF CHILLS, FEVER, NAUSEA, COUGH, DRY THROAT, WEAKNESS, MUSCLE ACHES, AND A SWEET OR

METALLIC TASTE IN THE MOUTH.

PROLONGED OR REPEATE D EXPOSURE MAY CAUSE DIFFICULTY IN WALKING, WEAKNESS OR CRAMPS IN THE LEGS, HOARSENESS, MEMORY LOSS, SKIN SENSITIZATION.

Medical Cond Aggravated by Exposure:PRE-EXISTING CHRONIC SKIN, EYE OR RESPIRATORY DISORDERS MAY BE AGGRAVATED IF INDIVIDUALS ARE REPEATEDLY OVEREXPOSED TO FUMES AND DUST.

First Aid:INHALATION: REMOVE TO FRESH AIR. CONSULT A PHYSICIAN. EY E:

FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. INGESTION: WHILE INGESTI ON OF LARGE ENOUGH QUANTITIES TO CAUSE HEALTH EFFECTS IS UNLIKELY, CONSULT A PHYSICIAN IF IT OCCURS.

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL AS APPROPRIATE FOR SURROUNDINGS. Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQ

UIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. Unusual Fire/Explosion Hazard: COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. MAY FORM EXPLOSIVE HYDROGEN CONCENTRATIONS IF EXPOSED TO ACIDS. Spill Release Procedures: CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES AND PLACE IN SUITABLE DOT APPROVED CONT AINERS AND DISPOSE OF IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. AVOID INHALATION AND SKIN EXPOSU RE. MAY DRY SWEEP OR VACUUM SPILLS. Handling and Storage Precautions: WEAR GLOVES AND FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING. Other Precautions: AVOID DIRECT SKIN CONTACT WITH MATERIAL. AVOID **BREATHING OF DUSTS AND** VAPORS. Respiratory Protection: WEAR NIOSH APPROVED RESPIRATORS FOR PROTECTION AGAINST AIRBORNE DUST OR FUMES. RESPIRATORS SHOULD BE USED IN ACCORDANCE WITH 29CFR 1910.134. Ventilation: USE LOCAL AND GENERAL VENTILATION TO KEEP AIRBORNE CONCENTRATIONS OF DUST OR FUMES BELOW THE TLV DURING USE. Protective Gloves:WELDERS LEATHER GLOVES Eve Protection: OSHA APPROVED GOGGLES/FACE SHIELD W/LENS Other Protective Equipment: BARRIER CREAMS MAY BE NECESSARY TO PREVENT SKIN SENSITIZATION AND DERMATITIS. 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 CONTA

MINANTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES.

HCC:N1 Boiling Pt:B.P. Text:5000F,2760C Spec Gravity:7.24 Solubility in Water:INSOLUBLE Appearance and Odor:FINE METALLIC POWDER, GRAY COLOR, NO ODOR

Stability Indicator/Materials to Avoid:YES ACIDS Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER. Hazardous Decomposition Products:WELDIN G AND CUTTING OPERATION MAY INCLUDE OXIDES OF THE METALS, CHROMATES, FLUORIDES, COMPLEX METALLICS, AND OZONE.

Waste Disposal Methods:RECYCLE OR DISPOSE IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

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