AI-1173

MSDS Number

BYGBM

National Stock Number

3439-01-380-1803

Product Name

AI-1173

Manufacturer

MILLER THERMAL TECHNOLOGIES INC ALLOYS INTL DIV

Product Identification

Product ID:AI-1173 MSDS Date:08/01/1991 FSC:3439 NIIN:01-380-1803 MSDS Number: BYGBM

Responsible Party

MILLER THERMAL TECHNOLOGIES, INC., ALLOYS INTL. DIV.

1901 ELLIS SCHOOL ROAD

BAYTOWN, TX 77521-1215

US

Emergency Phone: 713-426-5535

Info Phone: 713-426-5535

Cage: 06677

Contractor

MILLER THERMAL TECHNOLOGIES, INC., ALLOYS INTL. DIV.

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Ingredients

TUNGSTEN CARBIDE

CAS: 12070-12-1 RTECS: Y07250000

Fraction By Weight: 83% OSHA PEL5 MG W/M3 ACGIH TLV: 5 MG W/M3

COBALT (SARA 313)

CAS: 7440-48-4

RTECS: GF8750000

Fraction By Weight: 17%

OSHA PELO.1 MG/M3

ACGIH TLV: 0.02 MG/M3; A3; 9495



Hazards

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE: INHALATION OF DUST OR FUMES MAY

CAUSE SERIOUS RESPIRATORY IRRITATION; MAY CAUSE ASTHMA AND INTERSTITIAL FIBROSIS. CONTACT MAY CAUSE ALLERGIC SKIN REACTIONS OR EYE IRRITATION. CHRONIC: NONE SPEC IFIED BY MANUFACTURER. Explanation of Carcinogenicity: NO INGREDIENT OF A CONCENTRATION OF 0.1%

OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN. Effects of Overexposure: INHALED-COUGHING, SNEEZING, SHORTNESS OF BREATH. EYES-REDNESS, IRRITATION. SKIN-REDNESS, IRRITATION. INGESTED-NONE SPECIFIED BY MANUFACTURER.

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid

First Aid: INHALED-REMOVE FROM EXPOSURE. IF NEEDED, RESTORE BREATHING. SKIN/EYES-WASH THOROUGHLY WITH CLEAN WATER. CONTACT A PHYSICIAN IF IRRITATION OCCURS. INGESTED-IF CONSCIOUS, INDUCE VOMITING. GET MEDICAL AT TENTION.

Fire Fighting

Extinguishing Media: WATER FOG, CARBON DIOXIDE, DRY CHEMICAL. NITROGEN OR OTHER INERT GAS WHEN IN CONFINED AREA WHERE O2 CAN BE EXCLUDED. Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard: METAL CARBIDE/COBALT DUST MAY PRESENT A FIRE HAZARD UNDER FAVORING CONDITIONS & STRONG IGNITION SOURCE.

Accidental Release

Spill Release Procedures: USE CLEAN-UP METHODS WHICH AVOID CREATING DUST. VACUUM OR DAMP MOP. IF AIRBORNE DUST GENERATED, USE NIOSH/MSHA APPROVED RESPIRATOR WITH DUST CARDTRIDGE. VENTILATE AREA OF SPILL.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions: STORE IN A COOL, DRY, WELL-VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS. AVOID DAMPNESS IN STORAGE. Other Precautions: MAINTAIN GOOD HOUSEKEEPING PROCEDURES TO PREVENT ACCUMULATION OF DUST. NO EATING, DRINKING OR SMOKING IN WORK OR STORAGE AREAS. AVOID INGESTION, INHALATION OR SKIN CONTACT.

Exposure Controls

Respiratory Protection: IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IN ACCORDANCE WITH 29 CFR 1910.13 4 AND MANUFACTURER'S RECOMMENDATIONS. Ventilation: USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: WORK GLOVES.

Eve Protection: SAFETY GLASSES OR FACESHIELD OR GOGGLES. Other Protective Equipment: FIRE-RESTANT CLOTHES AROUND SPARK GENERATOR. PROTECTIVE WORK CLOTHES-APRON, COVERALLS. DLA-HMIS: EYE WASH AVAILABLE.

Work Hygienic Practices: WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE. Supplemental Safety and Health

Chemical Properties

HCC:N1

Boiling Pt:B.P. Text:5200F,2871C Vapor Density: 0.570#/IN3

Spec Gravity:13.9

Solubility in Water: INSOLUBLE

Appearance and Odor: GRAY POWDER; ODORLESS.



Stability

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS, STRONG MINERAL ACIDS, ACETYLENE, HYDRAZINIUM NITRATE, AMMONIUM NITRATE, BROMINE PENTAFLUORIDE. Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER. Hazardous Decomposition Products:NONE. Conditions to Avoid Polymerization:WILL NOT OCCUR.

Disposal

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

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