

AI-1018

MSDS Number

BKBMB

National Stock Number

3439-01-030-6128

Product Name

AI-1018

Manufacturer

MILLER THERMAL TECHNOLOGIES INC ALLOYS INTL DIV

Product Identification

Product ID:AI-1018

MSDS Date:04/05/1986

FSC:3439

NIIN:01-030-6128

MSDS Number: BKBMB

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.

BAYTOWN, TX 77521-1215

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Ingredients

COBALT (SARA III)

CAS: 7440-48-4

RTECS: GF8750000

Fraction By Weight: 56.0%

OSHA PEL0.1 MG/M3;AS CO

ACGIH TLV: 0.05 MG/M3;DUST 9293

CHROMIUM (SARA III)

CAS: 7440-47-3

RTECS: GB4200000

Fraction By Weight: 25.0%

OSHA PEL1 MG/M3

ACGIH TLV: 0.5 MG/M3; 9192

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

NICKEL (SARA III)

CAS: 7440-02-0

RTECS: QR5950000

Fraction By Weight: 11.0%

OSHA PEL1 MG/M3

ACGIH TLV: 1 MG/M3; 9192

TUNGSTEN

CAS: 7440-33-7

RTECS: YO7175000

Fraction By Weight: 8.0%

OSHA PEL5 MG/M3/ 10 STEL

ACGIH TLV: 5 MG/M3/10 STEL;9192

Hazards

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:YES

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:CONTAINS CHROMIUM METAL WHICH IS CONSIDERED CARCINOGEN.

Effects of Overexposure:EXPOSURE TO WELDING FUMES MAY RESULT IN DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT AND EYES. MAY CAUSE BRONCHITIS - SIDEROSIS; SKIN SENSITIVITY MAY ALSO BE NOTED. MECHANICAL I RRRITATION - CONJUNCTIVITIS. FREQUENT COUGHING AND/OR CHEST PAINS MAY OCCUR FROM ACUTE EXPOSURE.

Medical Cond Aggravated by Exposure:SOME WORKERS MAY BE AFFECTED BY A PRE-EXISTING CONDITIONS OF BREATHING PROBLEMS OR OTHER OCCUPATIONAL ILLNESS BECAUSE OF THE WIDE VARIATION IN INDIVIDUAL SUSCEPTIBILITIES.

First Aid

First Aid:IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER PRIOR TO REMOVAL FROM EXPOSURE AREA AND ADMINISTRATION OF FIRST AID. INHALATION: REMOVE FROM EXPOSURE AREA AND CALL FOR MEDICAL AID; IF INHALED FUMES OF GAS ES AND BREATHING IS DIFFICULT OR NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION. EYES: FLUSH WITH WATER. DO NOT RUB EYES. CONTACT PHYSICIAN IF IRRITATION PERSISTS. IF SWALLOWED, GET MEDICAL ATTENTION.

Fire Fighting

Flash Point:NONE

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS.

Accidental Release

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES. AVOID GENERATION OF AIRBORNE DUST. WHERE POSSIBLE USE VACUUM SUCTION. USE HIGH EFFICIENCY ARRESTING (HEPA) FILTER IF NEEDED. USE DUST SUPPERASSANT WHERE S WEEPING IS NECESSARY.

Handling

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:DURING WELDING AND/OR BRAZING, THE FUME AND GAS DECOMPOSITION PRODUCTS GENERATED ARE DIFFERENT IN FORM FROM THE INGREDIENTS LISTED. AVOID INHALATION OF FUMES AND DUST.

Exposure Controls

Respiratory Protection:USE WELD FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN ARC CUTTING, 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 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 POWDER (PLASMA SPRAY POWDER) IS COBALT BASE ALLOY.

Chemical Properties

HCC:N1
Boiling Pt:B.P. Text:2050F,1121C
Spec Gravity:8.9
Solubility in Water:NEGLIGIBLE
Appearance and Odor:LIGHT TO DARK GRAY COLOR, FINE POWDER, NO ODOR

Stability

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRON ALKALIES
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:WELDING/CUTTING OPERATION MAY PRODUCE OF OXIDES OF THE METALS SUCH AS COBALT,TUNGSTEN,CHROMIUM,NICKEL ETC.

Disposal

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

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