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MILLER THERMAL TECHNOLOGIES, INC., ALLOYS INTL. DIV. -- AI-1047 NICHROME-ALUMINUM

COMPOSITE -- 3439-01-381-5136

Product ID:AI-1047 NICHROME-ALUMINUM COMPOSITE

MSDS Date:08/01/1991

FSC:3439

NIIN:01-381-5136

MSDS Number: BYFDC === Responsible Party ===

Company Name: MILLER THERMAL TECHNOLOGIES, INC., ALLOYS INTL. DIV.

Address:1901 ELLIS SCHOOL ROAD

City:BAYTOWN

State:TX

ZIP:77521-1215

Country:US

Info Phone Num:713-426-5535

Emergency Phone Num:713-426-5535

CAGE:06677

=== Contractor Identification ===

Company Name: MILLER THERMAL TECHNOLOGIES, INC., ALLOYS INTL. DIV.

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======= Composition/Information on Ingredients ========

Ingred Name: NICKEL (SARA 313) (CERCLA)

CAS:7440-02-0

RTECS #:QR5950000 Fraction by Wt: 74%

Other REC Limits: NONE RECOMM

ENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9495

Ingred Name: CHROMIUM (SARA 313) (CERCLA)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by Wt: 20%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9495

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name: ALUMINUM (SARA 313)

CAS:7429-90-5

RTECS #:BD0330000 Fraction by Wt: 6%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15 MG/M3 DUST

S KNOWLEDGE. RTECS #:9999999ZZ Fraction by Wt: NONE Other REC Limits: NONE RECOMMENDED Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic: INHAL: BRONCHITIS, SIDEROSIS; CANCER-MAY BE CONNECTED TO PULMINARY FIBROSIS. EYE CONTACT: MECHANICAL IRRITATION, CONJUNCTIVITIS. Explanation of Carcinogenicity: CONTAINS NICKEL & CHROMIUM. cts of Overexposure:BRONCHITIS, SIDEROSIS, CANCER CONNECTED TO PULMINARY FIBROSIS. MECHANICAL EYE IRRIT, CONJUNCTIVITIS. Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER. First Aid:EYE CONTACT:FLUSH IMMED W/LG AMTS OF WATER. EYELIDS SHOULD BE HELD AWAY FROM EYEBALLS TO INSURE THOROUGH RINSING. DO NOT RUB EYES. OBTAIN MED ATTN IF IRRIT STAYS. INHAL:REMOVE FROM EXPOSURE. IF SUBJEC T IS NOT BREA THING FOLLOW STANDARD PROCEDURE. SKIN:REMOVE FROM EXPOSURE. WASH SKIN W/SOAP/WATER. INGEST:NONE. ============ Fire Fighting Measures ========================= Extinguishing Media: DRY CHEMICAL, DRY SAND, GRAPHITE TO SMOTHER FIRE. TYPE D. Fire Fighting Procedures: USE WATER ONLY IN MIST/FOG APPLICATION TO AVOID SPREADING POWDER/ACCUMULATED DUST IN SURROUNDING

Fire Fighting Procedures:USE WATER ONLY IN MIST/FOG APPLICATION TO AVOID SPREADING POWDER/ACCUMULATED DUST IN SURROUNDING AREAS.FIREFIGHTERS SHOULD WEAR SCBA & PROTECTIVE CLOTH(SUPPLEM) Unusual Fire/Explosion Hazard:AVOID AIRBORNE DISPERS ION OF ANY FINELY

DIVIDED POWDER IN ENCLSD INDUSTRIAL AREA TO REDUCE POT FOR DUST IGN.RXS W/WATER,ALKALIS,ACIDS TO PRODUCE HYDROGEN.(SUPP)

======== Accidental Release Measures ===========

Spill Release Procedures:AVOID AIRBORNE DUST GENERATION.WHERE POSSIBLE USE VAC SUCTION TO CLEAN SPILL MATL.USE HIGH EFFICIENCY PARTICULATE ARRESTING(HEPA)FILTER IF VAC EXHAU IS DISCHARGED INTO WORKPLACE.USE DUST SUPPRESSANT W HERE SWEEPING NECESSARY.PERSONAL SAFETY(S

UPPLEME)
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Handling and Storage Precautions: KEEP IN CLSD CNTNRS.DO NOT STORE NEA

Handling and Storage Precautions: KEEP IN CLSD CNTNRS.DO NOT STORE NEAR STRONG OXIDIZERS.DO NOT STORE IN AREAS PROTECTED BY AUTOMATIC SPRINKLER.

Other Precautions:PROPER GROUDING OF EQPMT ESSENTIAL.USE NON-SPARKING TOOLS.ALL ELECTRICAL EQPMT MUST BE EXPLO-PROOF.AVOID STATIC BUILUP/DISCHARGE.HOWEVER PER WARNING LABEL SUBMITTED W/MSDS:AVOID PROLONG SKIN CONTACT & INHALING DUST.MAY CAUSE ALLERGIC RX.

===== Exposure Controls/Personal Protection ========

Respiratory Protection: USE NIOSH APPROVED DUST RESPIRATORS SELECTED ACCORDING TO OSHA 29CFR 1910.134 WHERE AIRBORNE LEVELS OF MATLS EXCEED THE RECOMMENDED EXPO LIMITS. NUISANCE DUST MASK, 3M TYPE 8710 OR EQUIVALENT.

Ventilation:MECHANICAL(GEN):EXPLO/PROOF.USE ADEQUATE VENTI IN ORDER TO MAINTAIN AIRBORNE PARTICULATE LEVELS