

MILLER THERMAL TECHNOLOGIES,INC.,ALLOYS INTL. DIV. -- AI-1047 NICHROME-ALUMINUM  
COMPOSITE -- 3439-01-381-5136

===== Product Identification =====

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.

Address:1901 ELLIS SCHOOL ROAD

Box:City:BAYTOWN

State:TX

ZIP:77521-1215

Country:US

Phone:713-426-5535

CAGE:06677

===== 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

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===== Hazards Identification =====

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.  
Effe  
cts of Overexposure:BRONCHITIS, SIDEROSIS, CANCER CONNECTED TO  
PULMINARY FIBROSIS. MECHANICAL EYE IRRIT, CONJUNCTIVITIS.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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===== First Aid Measures =====

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.

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===== 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  
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)

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===== 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)

===== Handling and Storage =====

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