

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

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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

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

===== 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 SUBJECT IS NOT BREATHING 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
AREAS.FIREFIGHTERS SHOULD WEAR SCBA & PROTECTIVE CLOTH(SUPPLEM)
Unusual Fire/Explosion Hazard:AVOID AIRBORNE DISPERSION 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 WHERE 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