



Manufacturer of Precision Tools and Equipment

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MANUFACTURE INFORMATION

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CARLSTADT, NJ 07072

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PREPARATION/REVISION DATE: 07/15/98

TRADE NAME/SYNONYMS...: THERMA-GUARD  
CHEMICAL NAME/SYNONYMS:  
CHEMICAL FAMILY.....:  
FORMULA.....:  
PRODUCT CODE.....: 54.469

\*\*\*\*\* HAZARDOUS INGREDIENTS \*\*\*\*\*

DOES PRODUCT CONTAIN HAZARDOUS INGREDIENTS? (Y,N,N/A,N/I) : Y

CHEMICAL/COMMON NAME	CAS-NUMBER	%	PEL-OSHA	TLV-ACGIH
CERAMIC WOOL FIBER	N/A	N/A	N/A	N/A

THE CERAMIC WOOL FIBER CONTAINS 1% CRYSTALLINE SILICA, WHICH ONLY WILL FORM AFTER SERVICE AT TEMPERATURES GREATER THAN 1000C. THE "AFTER SERVICE" DUST CAN PRESENT A HEALTH HAZARD IF INHALED OVER A LONG PERIOD OF TIME. THE ABOVE CERAMIC FIBER IS USED WET IN SMALL QUANTITIES AND THE FORMATION OF DUST IS THEREFOR NOT APPLICABLE.

DOES PRODUCT CONTAIN CARCINOGENS (NTP, IARC, OR OSHA)? (Y,N,N/A,N/I): Y

CHEMICAL/COMMON NAME	CAS-NUMBER	%	NTP	IARC	OSHA
CERAMIC WOOL FIBER-1%CRYSTALLINE SILICA	N/A	N/A	N/A	N/A	N/A

\*\*\*\*\* HEALTH HAZARD DATA \*\*\*\*\*

HEALTH EFFECTS (ACUTE AND CHRONIC)

CWF CAN CAUSE IRRITATION TO THE EYES ON CONTACT AND TO THE SKIN ON PROLONGED CONTACT. IF THE MATERIAL CONTACTS THE SKIN IT SHOULD BE WASHED OFF THOROUGHLY USING MILD SOAP AND WATER. ACUTE: IRRITATION OF SKIN AND UPPER RESPIRATORY SYSTEM. CHRONIC HEALTH HAZARDS CAN OCCUR FROM LONG TERM EXCESSIVE INHALATION OF CRYSTALLINE SILICA DUST. CRYSTALLINE SILICA IN THE LUNGS CAN PRODUCE PNEUMOCOCCIOSIS, COMMONLY CALLED SILICOSIS, WHICH IS A SLOWLY DEVELOPING DISEASE. SYMPTOMS ARE USUALLY DELAYED (10 YEARS OR MORE). SMOKING CAN INCREASE RISK OF INJURY.

PRIMARY ROUTES OF ENTRY

LUNGS AND SKIN

420-488



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MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

PRE-EXISTING UPPER RESPIRATORY AND LUNG DISEASES SUCH AS, BUT NOT LIMITED TO BRONCHITIS, EMPHYSEMA AND ASTHMA.

EMERGENCY FIRST AID PROCEDURES

N/A

\*\*\*\*\* CHEMICAL DATA \*\*\*\*\*

BOILING POINT(F) . . . .	N/A	SPECIFIC GRAVITY (WATER=1) . . . . .	N/A
VAPOR PRESSURE (MMHG)	N/A	PERCENT VOLATILE BY VOLUME (%) . . . . .	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAP RATE ( N/A =1)	N/A

SOLUBILITY IN WATER.. NO

APPEARANCE AND ODOR INFORMATION

WHITE TO OFF-WHITE FIBER. NO ODOR. DENSITY APPROX. 4-8 LBS PER CUBIC FOOT

\*\*\*\*\* PHYSICAL HAZARD DATA \*\*\*\*\*

FLASH POINT (METHOD USED) N/A FLAMMABLE LIMITS-LEL= N/A UEL= N/A

EXTINGUISHING MEDIA

PRODUCT IS NON-COMBUSTIBLE REFRACTORY. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDINGS

SPECIAL FIRE FIGHTING PROCEDURES

NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS

SEE EXTINGUISHING MEDIA

\*\*\*\*\* REACTIVITY DATA \*\*\*\*\*

INCOMPATIBILITY (MATERIALS TO AVOID)

NONE

HAZARDOUS DECOMPOSITION PRODUCTS

NONE

WILL HAZARDOUS POLYMERIZATION OCCUR

NO

CONDITIONS TO AVOID/POLYMERIZATION



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NONE

IS THE PRODUCT STABLE  
YES UNDER NORMAL CONDITIONS OF STORAGE AND USE.

CONDITIONS TO AVOID/STABILITY  
NONE

\*\*\*\*\* SPILL AND LEAK PROCEDURES \*\*\*\*\*

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
SEE WASTE DISPOSAL

WASTE DISPOSAL METHOD  
SOLID WASTE REGULATIONS APPLY. CONSULT LOCAL, STATE, AND FEDERAL REGULATIONS  
TO DETERMINE BEST DISPOSAL ALTERNATIVES.

\*\*\*\*\* EXPOSURE CONTROL INFORMATION \*\*\*\*\*

VENTILATION

LOCAL EXHAUST	YES	MECHANICAL (GEN)	YES
SPECIAL.....	YES	OTHER.....	N/A

RESPIRATORY PROTECTION

PROVIDE ADEQUATE GENERAL AND LOCAL EXHAUST VENTILATION TO MEET PEL REQUIREMENTS. PROVIDE WORKERS WITH DUST RESPIRATORS WHERE DUST LEVELS MAY EXCEED PEL. NIOSH AND MSHA APPROVED EQUIPMENT ARE RECOMMENDED WHEN AIRBORN FIBER EXPOSURE LIMITS ARE EXCEEDED. NIOSH AND MSHA APPROVED BREATHING EQUIPMENT MAY BE REQUIRED FOR NON-ROUTINE AND EMERGENCY USE. VENTILATION SHOULD BE USED TO CONTROL OR REDUCE AIRBORN CONCENTRATIONS. ACCEPTABLE RESPIRATORS RECOMMENDED FOR GIVEN AIRBORN CONCENTRATIONS OF CERAMIC FIBER ARE:

2.0-5.0 F/CC	NIOSH APPROVED DISPOSABLE FACE MASK
5.0-50.0 F/CC	NIOSH APPROVED FULL FACE PIECE FACE HIGH EFFICIENT FILTER
>50.0 F/CC	NIOSH APPROVED FULL FACE SUPPLIED-AIR AIR APPROVED SOURCE REQUIRED

PENDING THE RESULTS OF LONG-TERM HEALTH EFFECTS STUDIES, ENGINEERING CONTROL OF AIRBORN FIBERS TO THE LOWEST LEVEL ATTAINABLE IS ADVISED.

PROTECTIVE GLOVES  
YES

OTHER PROTECTIVE EQUIPMENT  
NO

OTHER ENGINEERING CONTROLS



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SEE SPECIAL PRECAUTIONS

WORK PRACTICES

N/A

HYGENIC PRACTICES

N/A

\*\*\*\*\* SPECIAL PRECAUTIONS \*\*\*\*\*

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

STABLE UNDER NORMAL CONDITIONS OF STORAGE AND USE

MAINTENANCE PRECAUTIONS

SEE ABOVE

OTHER PRECAUTIONS

BECAUSE OF THE PRESENCE OF CRYSTALLINE SILICA IN FIRED REFRACTORY LININGS, PARTICULAR CARE SHOULD BE EXERCISED DURING TEAR-OUT TO MINIMIZE THE GENERATION OF DUST. ADHERENCE TO PROPER METHODS OF DUST SUPPRESSION AND CONTROL IS IMPERATIVE. FOLLOWING ARE RECOMMENDED PRECAUTIONS TO BE TAKEN DURING REMOVAL:

1. EMPLOYEES SHOULD BE APPRISED OF THE HAZARDS AND PROPER CONDITIONS AND PRECAUTIONS FOR SAFE USE OR EXPOSURE.
2. NIOSH APPROVED RESPIRATORS SHOULD BE USED FOR DUST LEVELS < 10X PEL
3. DUST GENERATION SHOULD BE MINIMIZED BY USE OF DUST CONTROL EQUIPMENT OR WATER SPRAY.
4. WEAR PROTECTIVE CLOTHING AND VACUUM CLEAN PRIOR TO REMOVING CLOTHING

OTHER COMMENTS

CERAMIC FIBER IS UNDER INVESTIGATION AS A POSSIBLE ANIMAL CARCINOGEN. ANIMAL STUDIES TO DATE ARE INCONCLUSIVE. EXPOSURE TO DUST FROM THIS PRODUCT SHOULD BE MINIMIZED UNTIL FURTHER ANIMAL AND HUMAN STUDIES ARE COMPLETE. THIS PRODUCT IS SUSPECTED TO BE AN ANIMAL CARCINOGEN.