

## THERMAL CERAMICS -- KOAWOOL MOLDABLE BV -- 8040-00N041260

## ===== Product Identification =====

Product ID:KOAWOOL MOLDABLE BV  
 MSDS Date:09/23/1991  
 FSC:8040  
 NIIN:00N041260  
 MSDS Number: BSHBK  
 === Responsible Party ===  
 Company Name:THERMAL CERAMICS  
 Address:2102 OLD SAVANNAH RD  
 Box:923  
 City:AUGUSTA  
 State:GA  
 ZIP:30903  
 Country:US  
 Info Phone Num:404-796-4200  
 Emergency Phone Num:404-796-4200  
 CAGE:0UHC8  
 === Contractor Identification ===  
 Company Name:THERMAL CERAMICS  
 Address:P.O. BOX 923 MS 300  
 Box:City:AUGUSTA  
 State:GA  
 ZIP:30903  
 Country:US  
 Phone:800-722-5681  
 CAGE:0UHC8

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

Ingrid Name:WATER  
 CAS:7732-18-5  
 RTECS #:ZC0110000  
 Fraction by Wt: 45-60%

Ingrid Name:RESP PROT:EQUIV; 10-100 TIMES WEG/PEL - SURVIVAIR FULL  
 FACEPIECE W/HIGH EFFICIENCY FILTER 1090-00/EQUIV; >100 (ING 6)  
 RTECS #:9999999ZZ

Ingrid Name:ING 5:TIMES WEG/PEL - MSA 01-00-06 FULL FACEPIECE TYPE C  
 SUPPLIED AIR/EQUIV; OSHA-APPROVED AIR SOURCE REQUIRED.  
 RTECS #:9999999ZZ

Ingrid Name:FIBERS, REFRACTORY CERAMIC; (REFRACTORY CERAMIC FIBER)  
 (RCF)  
 CAS:65997-17-3  
 RTECS #:LK3628000  
 Fraction by Wt: 20-60%  
 Other REC Limits:2 FIBERS/CC (MFR)  
 OSHA PEL:5 MG/M3 RDUST  
 ACGIH TLV:10 MG/M3

Ingrid Name:SILICA GEL; (SILICA, AMORPHOUS)  
 CAS:112945-52-5  
 RTECS #:VV7310000  
 Fraction by Wt: 0-30%  
 Other REC Limits:20 MPPCF (MFR)

OSHA PEL:6 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST

Ingreed Name:ETHYLENE GLYCOL (SARA III)  
CAS:107-21-1  
RTECS #:KW2975000  
Fraction by Wt: 0-10%  
OSHA PEL:50 PPM, C  
ACGIH TLV:50 PPM, VAP/MIST, C  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

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Hazards Identification  
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:EXPOS TO DUST SHLD BE MINIMIZED.  
LONG-TERM EXPOS TO RCF CAUSES NO KNOWN CHRONIC HLTH PROBLEMS IN  
HUMANS. IARC BELIEVES THERE IS SUFFICIENT EVID OF CARCIN IN ANIMALS  
BUT INSUFFICIENT DATA IN HUMANS. HN DLG RCF PRODS MAY GENERATE  
RESPIRABLE PARTICULATES WHICH MAY CAUSE TEMPORARY IRRIT/DISCOMFORT  
OF SKIN, (EFTS OF OVEREXP)  
Explanation of Carcinogenicity:CRYSTALLINE SILICA:GRP 2A (IARC  
VOL49,P49,'90), ANTIC TO BE A CARCIN (NTP 6TH ANN RPT, '91).  
Effects of Overexposure:HLTH HAZ:EYES, NOSE, THROAT/LUNGS. THESE PRODS  
CONTAIN MINOR AMTS OF BINDERS &/OR LUBRICANTS WHICH BURN OUT DURING  
FIRST HEAT-UP. THESE PRODS CONTAIN ETHYLENE GLYCOL, WHICH MAY CAUSE  
KIDNEY DMG - ALSO BRAIN, LIVER, SPLEEN, LUNG & BLOOD CHANGES. IT  
IS ALSO REPRO HAZ BASED ON TESTS W/ANIMALS. PRLNG/RPTD INHAL OF  
(SUPDAT)  
Medical Cond Aggravated by Exposure:HANDLING RCF PRODUCTS MAY GENERATE  
RESPIRABLE PARTICULATES WHICH MAY AGGRAVATE BRONCHIAL DISORDERS.

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First Aid Measures  
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First Aid:INHAL:REMOVE TO FRESH AIR. INGEST:DRINK PLENTY OF WATER.  
SKIN:WASH W/MILD SOAP & WATER. EYES:FLUSH W/PLENTY OF WATER FOR AT  
LEAST 15 MINUTES. IF IRRITATION PERSISTS, CALL MD.

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Fire Fighting Measures  
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Extinguishing Media:MEDIA SUITABLE FOR SURROUNDING FIRE .  
Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA & FULL  
PROTECTIVE EQUIPMENT .

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Accidental Release Measures  
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Spill Release Procedures:FOLLOW ROUTINE HOUSEKEEPING PROCEDURES.  
VACUUMING W/HEPA FILTER IS PREFERRED; IS SWEEPING IS NECESSARY, USE  
DUST SUPPRESSANT.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage  
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Handling and Storage Precautions:APPROPRIATE VENT & NIOSH/MSHA APPROVED  
RESP PROTECTION SHOULD BE PROVIDED IN COMPLIANCE W/OSHA STD 29 CFR  
1910.94 & 1910.134, RESPECTIVELY.  
Other Precautions:AS MFRD, RCF PRODS ARE ALUMINOSILICATES WHICH MAY  
TRANSFORM UPON HEATING TO MULLITE & CRISTOBALITE (FORM OF

CRYSTALLINE SILICA). REMOVAL OF RCF PRODS AFTER SERVICE MAY GEN  
DUST. FOR FURTHER INFO, REFER TO THERMAL CERAMIC'S  
PAMPHLET, (SUPDAT)

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

Respiratory Protection:IN ACCORDANCE W/OSHA STD 29 CFR 1910.134,  
NIOSH/MSHA APPRVD RESP PROT MUST BE WORN TO PROT AGAINST INHAL OF  
RCF & CRISTOBALITE WHENEVER AIRBORNE CONCS EXCEED WEG & PEL,  
RESPECTIVELY. UP TO 10 TIMES WE G/PEL - 3M 9900, 3M 8710 OR (ING 5)  
Ventilation:LOCAL EXHAUST/MECHANICAL (GENERAL):FOLLOW OSHA STANDARD 29  
CFR 1910.94.

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:ANSI APRV CHEMICAL WORKERS GOGGLES (FP N

Other Protective Equipment:LONG SLEEVED SHIRTS, LONG PANTS, CAP.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

EFTS OF OVEREXP:RESPIRABLE FREE CRYSTALLINE SILICA DUST MAY CAUSE  
DELAYED LUNG INJURY (SILICOSIS). IARC BELIEVES THERE IS EVID OF  
CARCIN IN ANIMALS BUT EVID FOR CARCIN TO HUMANS IS LTD). OSHA REC  
TLV & PEL FOR FREE CRYSTALLINE SILICA IS 0.05 MG/M3. OTHER  
PREC:"HLTH & SAFETY ASPECTS OF REFRACTORY CERAMIC FIBERS".

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===== Physical/Chemical Properties =====

Solubility in Water:INSOLUBLE

Appearance and Odor:STICKY, PLIABLE MIXTURE; NO ODOR.

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

HYDROFLUORIC ACID & CONCENTRATED ALKALI.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

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===== Disposal Considerations =====

Waste Disposal Methods:WASTES ARE NOT HAZARDOUS WASTES AS DEFINED BY  
RCRA (40 CFR 261). COMPLY W/FEDERAL, STATE & LOCAL REGULATIONS.  
DISPOSE OF IN LANDFILL.

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