

DYNAMOLD, Inc.

DMS-4-828 SERIES MOLDABLE SHIM MATERIAL PART "A" BASE

Material Safety Data Sheet

Quick Identifier, Common Name (**DMS-4-828 Shim Material**)

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910, 1200. Standard must be consulted for specific requirements.

SECTION 1 - IDENTITY

FSCM No 30256
DATE PREPARED Revision 08/01/2003
NAME DYNAMOLD, INC
ADDRESS 2905 SHAMROCK AVE., FORT WORTH, TEXAS 76107
TELEPHONE NUMBER (817) 335-0862
FOR ADDITIONAL INFORMATION CONTACT P. MICHAEL PECK
Chem Tel 1 (-800-) 255-3924
COMMON NAME (USED ON LABEL) DMS-4-828 SERIES MOLDABLE SHIM MATERIAL PART "A" BASE
CHEMICAL FAMILY MIXTURE
CHEMICAL NAME MIXTURE
TRADE NAME & SYNONYMS DMS-4-828 SERIES MOLDABLE SHIM MATERIAL PART "A" BASE
FORMULA Mixture of Epoxy Resins and inert mineral fillers. Ingredients of this mixture are included in the US TSCA Inventory

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS #	% (VOL)	*TLV	**PEL
EPOXY NOVALAC RESIN	028064-14-4	<25%	NA	NA
Reaction products of Epichlorohydrin and Bisphenol "A" mixture	001675-54-3	<25%	NA	NA
SILICA	14808-60-7	<30%	NA	10 mg/m ³
ALUMINUM POWDER	7429-90-5	<10%	10 mg/m ³	10 mg/m ³
GLASS	65997-17-3	<10%	10 mg/m ³	None

THIS MATERIAL DOES NOT CONTAIN ASBESTOS

*TLV Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists

**PEL Permissible Exposure Limit established by the Occupational Safety and Health Administration (OSHA)

SECTION 3 - PHYSICAL DATA

BOILING POINT > 500° deg. F
SPECIFIC GRAVITY (H₂O=1) approximately 1.4
VAPOR PRESSURE (mm Hg) < 0.01mm
PERCENT VOLATILE BY VOLUME (%) NA
VAPOR DENSITY (AIR=1) NA
EVAPORATION RATE (butyl acetate=1) None
SOLUBILITY IN WATER None
REACTIVITY IN WATER Will not evolve flammable or toxic gases
APPEARANCE AND ODOR Heavy mastic, gray in color. Epoxy resin odor

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT approximately 450° deg. F (coc)
FLAMMABLE LIMITS IN AIR (% by VOLUME) NA UPPER NA
EXTINGUISHING MEDIA Dry chemical, CO₂, water spray, alcohol type foam, water fog
AUTO IGNITION TEMPERATURE None
UNUSUAL FIRE AND EXPLOSION HAZARDS DENSE SMOKE AND TOXIC GASES MAY BE LIBERATED
SPECIAL FIRE FIGHTING PROCEDURES SELF CONTAINED BREATHING APPARATUS WHEN FIGHTING FIRES IN CONFINED AREA

Continued on Reverse Side

SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE Inhalation, Eyes, Skin, Ingestion

INHALATION Not considered a hazard at room temperature. Remove to fresh air if affected.
EYES Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention immediately.
SKIN Wash with soap and water. Towel dry, consult physician if affected.
INGESTION Do not induce vomiting. Give a large quantity of water or milk. Do not give fluids to a unconscious person. Consult a physician.

CHEMICAL COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: NONE

CHRONIC OVEREXPOSURE No chronic overexposure or target organ effects are known.

EMERGENCY & FIRST AID PROCEDURES

INHALATION Not considered a hazard at room temperature. Remove to fresh air if affected.
EYES Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention. If contact with hot product occurs immediately flush with cool water for 15 minutes. Get medical attention immediately.
SKIN Remove contaminated clothing/shoes and wipe excess from skin. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing or until cleaned. Contaminated leather articles, including shoes cannot be decontaminated and should be destroyed to prevent reuse. If contact from hot product occurs immediately flush with cool water for 15 minutes. Carefully remove clothing: if clothing is stuck to burn area do not pull it off, but cut around it. Cover burn area with a clean material. Get medical attention immediately.
INGESTION Do not induce vomiting. Give a large quantity of water or milk. Do not give fluids to a unconscious person. Call a physician.

SECTION 6 - REACTIVITY DATA

STABILITY Stable under normal conditions
INCOMPATIBILITY Bases and strong oxidizing materials
HAZARDOUS DECOMPOSITION BYPRODUCTS **IN FIRES:** Fumes containing nitrogen oxide and CO_2 may be released
HAZARDOUS POLYMERIZATION Will not occur
CONDITIONS TO AVOID Excess heating over long periods degrades material properties

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED Use cautious judgment when cleaning up large spills. Remove ignition source. Wear respirator and protective clothing as appropriate. Shut off source of leak if it is safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material. Dispose of properly. Flush area with water. Small spills: take up with an absorbent material and dispose of properly.

WASTE DISPOSAL METHOD This product, if disposed as shipped, is not a hazardous waste as specified in 40 CFR 261. Dispose of in accordance with Federal, State and local regulations. (Burn in adequate incinerator, or bury in approved land fill.)

SECTION 8 - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None needed when general ventilation is provided
PROTECTIVE GLOVES Impervious gloves to prevent skin contact.
EYE PROTECTION Chemical splash goggles (ANSI Z87.1 1979)
OTHER PROTECTIVE CLOTHING OR EQUIPMENT Avoid contact with the eyes. Wear safety glasses or goggles as appropriate. Avoid prolonged or repeated contact with the skin. Wear chemical-resistant gloves and other clothing as required to minimize contact.

DO NOT HANDLE OR USE THIS PRODUCT UNTIL SAFETY PRECAUTIONS RECOMMENDED IN THIS SHEET HAVE BEEN READ AND FULLY UNDERSTOOD.

SECTION 9 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not store or handle product in the presence of heat. Keep container tightly closed when not in use. Store in cool dry location.
OTHER PRECAUTIONS Wash thoroughly after handling

THE INFORMATION CONTAINED WITHIN WAS OBTAINED FROM AUTHORITATIVE SOURCES AND IS BELIEVED TO BE ACCURATE FOR THE MANNER IN WHICH THE PRODUCT IS INTENDED TO BE USED. OTHER USES COULD RESULT IN CONSEQUENCES WHICH ARE NOT CONSIDERED WITHIN THIS DOCUMENT

DYNAMOLD, Inc. DMS-4-828 SERIES MOLDABLE SHIM MATERIAL PART "B" CATALYST

Material Safety Data Sheet

Quick Identifier, Common Name (DMS-4-828 Catalyst)

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910, 1200. Standard must be consulted for specific requirements.

SECTION 1 - IDENTITY

DATE PREPARED Revision 08/01/2003
NAME DYNAMOLD, INC
ADDRESS 2905 SHAMROCK AVE., FORT WORTH, TEXAS 76107
TELEPHONE NUMBER (817) 335-0862
FOR ADDITIONAL INFORMATION CONTACT P. MICHAEL PECK
EMERGENCY PHONE (CHEM-TEL) (800) 255-2924
COMMON NAME (USED ON LABEL) DMS-4-828 SERIES MOLDABLE SHIM MATERIAL PART "B" CATALYST
CHEMICAL FAMILY MIXTURE
CHEMICAL NAME MIXTURE

TRADE NAME & SYNONYMS DMS-4-828 SERIES MOLDABLE SHIM MATERIAL PART "B" CATALYST

FORMULA

<u>CHEMICAL NAME</u>	<u>% WT.</u>
ALKYLAMINES	15-40%
POLYAMIDE RESIN	40-70%
IMIDAZOLE	5-10%

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT

<u>CHEMICAL NAME</u>	<u>% WT.</u>	<u>CAS No.</u>	<u>PEL*</u>	<u>TLV**</u>	<u>Other</u>
ALKYLAMINES	15-40%	112-24-3	N/A	N/A	Non Carcinogenic
POLYAMIDE RESIN	40-70%	68-410231	N/A	N/A	Non Carcinogenic
IMIDAZOLE	5-10%	931-36-2	N/A	N/A	Non Carcinogenic

*PEL Permissible exposure limit established by the Occupational Safety and Health Administration (OSHA)

**TLV Threshold limit value established by the American Conference of Governmental Industrial Hygienists

SECTION 3 - PHYSICAL DATA

BOILING POINT 550° deg F.
SPECIFIC GRAVITY (H₂O=1) APPROXIMATELY .98
VAPOR PRESSURE < 0.01mm Hg.
PERCENT VOLATILE BY VOLUME(%) N/A
VAPOR DENSITY (AIR=1) 6.2
EVAPORATION RATE (Ethyl Ether=1) NONE
SOLUBILITY IN WATER COMPLETE
REACTIVITY IN WATER WILL NOT EVOLVE FLAMMABLE OR TOXIC GASES
APPEARANCE AND ODOR AMBER LIQUID WITH AMMONIACAL ODOR

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT > 300° F. (COC METHOD)
FLAMMABLE LIMITS IN AIR (% by VOLUME) LOWER N/A UPPER N/A
EXTINGUISHING MEDIA DRY CHEMICAL, CO₂, WATER SPRAY.
AUTO IGNITION TEMPERATURE > 640° F.
UNUSUAL FIRE AND EXPLOSION HAZARDS NONE
SPECIAL FIRE FIGHTING PROCEDURES SELF CONTAINED BREATHING APPARATUS WHEN FIGHTING FIRES IN CONFINED AREA
EXTINGUISHING MEDIA DRY CHEMICAL, CO₂, WATER

Continued on Reverse Side

SECTION 5 - HEALTH INFORMATION

ACUTE (EYE): Caution product is severe eye irritant
(SKIN): May be skin sensitizer
(INGESTION): May cause severe burns or ulceration
(INHALATION): Excessive inhalation can cause respiratory irritation

PRIMARY ROUTES OF EXPOSURE Inhalation, Eyes, Skin, Ingestion

INHALATION Excessive inhalation can cause respiratory irritation. Remove to fresh air and administer oxygen if needed. Consult Physician
EYES Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention immediately.
SKIN Wash with soap and water. Towel dry, consult physician if affected.
INGESTION Do not take internally. May cause gastrointestinal irritation, burns or ulceration. May cause burns of mouth and throat. Do not induce vomiting. Give a large quantity of water or milk. Do not give fluids to a unconscious person. Call a physician.

CHEMICAL COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: NONE

CHRONIC OVEREXPOSURE No chronic overexposure or target organ effects are known.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Disorders eyes or skin,

EMERGENCY & FIRST AID PROCEDURES

INHALATION Remove victim to fresh air and provide oxygen if breathing is difficult. If breathing has stopped, administer artificial respiration. Get emergency medical attention.
EYES Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention. If contact with hot product occurs immediately flush with cool water for 15 minutes. Get medical attention immediately.
SKIN Remove contaminated clothing/shoes and wipe excess from skin. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing or until cleaned. Contaminated leather articles, including shoes cannot be decontaminated and should be destroyed to prevent reuse. If contact from hot product occurs immediately flush with cool water for 15 minutes. Carefully remove clothing: if clothing is stuck to burn area do not pull it off, but cut around it. Cover burn area with a clean material. Get medical attention immediately.
INGESTION Do not induce vomiting. Give a large quantity of water or milk. Do not give fluids to a unconscious person. Call a physician.

SECTION 6 - REACTIVITY DATA

STABILITY Stable under normal conditions
INCOMPATIBILITY Fires and other oxidizing materials
HAZARDOUS DECOMPOSITION BYPRODUCTS **IN FIRES:** Fumes containing nitrogen oxide and CO_2 may be released
HAZARDOUS POLYMERIZATION Will not occur
CONDITIONS TO AVOID Excess heat, Sparks and open flames

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED Use cautious judgment when cleaning up large spills. Remove ignition source. Wear respirator and protective clothing as appropriate. Shut off source of leak if it is safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material. Dispose of properly. Flush area with dilute (5%) acetic acid. to remove trace residue. Small spills: take up with an absorbent material and dispose of properly.

WASTE DISPOSAL METHOD This product, if disposed as shipped, is not a hazardous waste as specified in 40 CFR 261. Dispose of in accordance with Federal, State and local regulations. (Burn in adequate incinerator, or bury in approved land fill.)

SECTION 8 - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None needed when general ventilation is provided
PROTECTIVE GLOVES Impervious gloves to prevent skin contact.
EYE PROTECTION Chemical splash goggles (ANSI Z87.1 1979)
OTHER PROTECTIVE CLOTHING OR EQUIPMENT Avoid contact with the eyes. Wear safety glasses or goggles as appropriate. Avoid prolonged or repeated contact with the skin. Wear chemical-resistant gloves and other clothing as required to minimize contact.

DO NOT HANDLE OR USE THIS PRODUCT UNTIL SAFETY PRECAUTIONS RECOMMENDED IN THIS SHEET HAVE BEEN READ AND FULLY UNDERSTOOD.

SECTION 9 - HANDLING AND STORAGE

Do not store on handle product in the presence of heat, sparks or open flame. Keep container tightly closed when not in use. Store in cool dry location. Wash thoroughly after handling