

# 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

<b>FSCM No</b>	30256	<b>HMIS INDEX</b>	0 - Minimal
<b>DATE PREPARED</b>	Revision 1/1/10		1 - Slight
<b>NAME</b>	DYNAMOLD, INC		2 - Moderate
<b>ADDRESS</b>	2905 SHAMROCK AVE., FORT WORTH, TEXAS 76107		3 - Serious
<b>TELEPHONE NUMBER</b>	( 817 ) 335-0862		4 - Severe
<b>FOR ADDITIONAL INFORMATION CONTACT</b>	P. MICHAEL PECK	<b>HMIS RATING</b>	1 - Health
<b>Chem Tel</b>	1 (-800-) 255-3924		1 - Flammability
<b>COMMON NAME (USED ON LABEL)</b>	DMS-4-828 SERIES MOLDABLE SHIM MATERIAL PART "A" BASE		0 - Reactivity
<b>CHEMICAL FAMILY</b>	MIXTURE		
<b>CHEMICAL NAME</b>	MIXTURE		
<b>TRADE NAME &amp; SYNONYMS</b>	DMS-4-828 SERIES MOLDABLE SHIM MATERIAL PART "A" BASE		
<b>FORMULA</b>	Mixture of Epoxy Resins and inert mineral fillers. Ingredients of this mixture are included in the US TSCA Inventory		
<b>US DOT SHIPPING NAME</b>	Epoxy Material		
<b>US DOT HAZARD CLASS</b>	None		
<b>US DOT ID NUMBER</b>	None		
<b>US DOT LABEL</b>	None		

### 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 <sup>3</sup>
ALUMINUM POWDER	7429-90-5	<10%	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
GLASS	65997-17-3	<10%	10 mg/m <sup>3</sup>	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

<b>BOILING POINT</b>	> 500° deg. F
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1)</b>	approximately 1.4
<b>VAPOR PRESSURE (mm Hg)</b>	< 0.01mm
<b>PERCENT VOLATILE BY VOLUME (%)</b>	NA
<b>VAPOR DENSITY (AIR=1)</b>	NA
<b>EVAPORATION RATE (butyl acetate=1)</b>	None
<b>SOLUBILITY IN WATER</b>	None
<b>REACTIVITY IN WATER</b>	Will not evolve flammable or toxic gases
<b>APPEARANCE AND ODOR</b>	Heavy mastic, gray in color. Epoxy resin odor

### SECTION 4 - FIRE AND EXPLOSION DATA

<b>FLASH POINT</b>	approximately 450° deg. F (coc)
<b>FLAMMABLE LIMITS IN AIR (% by VOLUME)</b>	NA UPPER NA
<b>EXTINGUISHING MEDIA</b>	Dry chemical, CO <sub>2</sub> , water spray, alcohol type foam, water fog
<b>AUTO IGNITION TEMPERATURE</b>	None
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b>	<u>DENSE SMOKE AND TOXIC GASES MAY BE LIBERATED</u>
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	<u>SELF CONTAINED BREATHING APPARATUS WHEN FIGHTING FIRES IN CONFINED AREA</u>

Continued on Reverse Side

## SECTION 5 - HEALTH INFORMATION

### PRIMARY ROUTES OF EXPOSURE Inhalation, Eyes, Skin, Ingestion

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

<b>INHALATION</b>	Not considered a hazard at room temperature. Remove to fresh air if affected.
<b>EYES</b>	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.
<b>SKIN</b>	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.	
<b>INGESTION</b>	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

<b>STABILITY</b>	Stable under normal conditions
<b>INCOMPATIBILITY</b>	Bases and strong oxidizing materials
<b>HAZARDOUS DECOMPOSITION BYPRODUCTS</b>	<b>IN FIRES:</b> Fumes containing nitrogen oxide and CO <sub>2</sub> may be released
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur
<b>CONDITIONS TO AVOID</b>	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

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

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

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

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## SECTION 10 - REGULATORY INFORMATION

### **Communication Standard 29 CFR 1910.1200**

### **Superfund Admendents and Reauthorization Act pf 1986 Title III (Emergency Planning and Community Right to Know Act of 1986) Sections 311 and 312**

To the best of our knowledge, this product does not contain chemicals which require reporting under this statute.

### **Superfund Admendents and Reauthorization Act pf 1986 Title III (Emergency Planning and Community Right to Know Act of 1986) Sections 313**

To the best of our knowledge, this product does not contain chemicals which require reporting under this statute.

**All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.**

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*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 01/1/10  
 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

#### HMIS INDEX

0 - Minimal  
 1 - Slight  
 2 - Moderate  
 3 Serious  
 4 - Severe

#### HMIS RATING

3 - Health  
 1 - Flammability  
 0 - Reactivity

DOT Non Bulk and Bulk  
 US DOT SHIPPING NAME TRIETHYLENETETRAMINE  
 US DOT HAZARD CLASS 8, UN2259, PGII  
 US DOT ID NUMBER UN2259  
 US DOT LABEL 8

IMDG Same as above and EMS No. F-A,S-B  
 ICAO/ATA Same as above and Cargo Packing Instruction 812, Passenger 808

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

FORMULA	CHEMICAL NAME	% WT.
	ALKYLAMINES	15-40%
	POLYAMIDE RESIN	40-70%
	IMIDAZOLE	5-10%

### SECTION 2 - HAZARDOUS INGREDIENTS

#### HAZARDOUS COMPONENT

CHEMICAL NAME	% WT.	CAS No.	PEL*	TLV**	Other
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 (H<sub>2</sub>O=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, CO<sub>2</sub> 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, CO<sub>2</sub>, WATER

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## 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.

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## 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<sub>2</sub> may be released  
**HAZARDOUS POLYMERIZATION** Will not occur  
**CONDITIONS TO AVOID** Excess heat, Sparks and open flames

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## 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.)

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## 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.

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## 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

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## SECTION 10 - REGULATORY INFORMATION

### Communication Standard 29 CFR 1910.200

### Superfund Amendments and Reauthorization Act of 1989 Title III (Emergency Planning and Community Right to Know Act of 1986) Sections 311 and 312

<b>Immediate (Acute) Health Hazard</b>	<b>Yes</b>
<b>Delayed (Chronic) Health Hazard</b>	<b>Yes</b>
<b>Fire Hazard</b>	<b>No</b>
<b>Reactive Hazard</b>	<b>Yes</b>
<b>Sudden Release of Pressure Hazard</b>	<b>No</b>

### Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right to Know Act of 1986) SECTION 313

To the best of our knowledge, this product does not contain chemicals which require reporting under this statute.

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

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