

EPOGEL™ Part B

Version 1.2

06/02/2004

1. PRODUCT AND COMPANY INFORMATION

Company	:	Degussa Building Systems 889 Valley Park Drive Shakopee, MN 55379
Telephone	:	952-496-6000
Emergency telephone number	:	(800) 424-9300 (703) 527-3887 (Outside Continental US)
Product name	:	EPOGEL™ Part B
MSDS ID No.	:	10165
TSCA Inventory	:	All components of this product are included, or are exempt from inclusion, in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Canadian DSL	:	All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List (DSL).
Product Use Description	:	Adhesive

2. HAZARDOUS INGREDIENTS

<u>Chemical</u>	<u>CAS No.</u>	<u>TLV</u>	<u>STEL</u>	<u>PEL</u>	<u>CEIL</u>	<u>Weight %</u>
BENZYL ALCOHOL	100-51-6	N.E.	N.E.	N.E.	N.E.	15.00 - 40.00 %
2-METHYLPENTAMETHYLENEDIAMINE	15520-10-2	N.E.	N.E.	N.E.	N.E.	5.00 - 10.00 %
M-XYLENEDIAMINE	1477-55-0	N.E.	N.E.	N.E.	N.E.	5.00 - 10.00 %
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	6864-37-5	N.E.	N.E.	N.E.	N.E.	5.00 - 10.00 %
2,4,6-TRIS((DIMETHYLAMINO)METHYL)PHENOL	90-72-2	N.E.	N.E.	N.E.	N.E.	1.00 - 5.00 %

3. HAZARDS IDENTIFICATION

HMIS® Rating		HEALTH 3	FLAMMABILITY 1	PHYSICAL HAZARD 0
WHMIS Class	:	E D2B		
Primary Routes of Entry	:	Ingestion Inhalation Eye contact Skin contact Skin absorption		

Effects of Overexposure

EPOGEL™ Part B

Version 1.2

06/02/2004

- Inhalation : Harmful by inhalation. Can cause moderate to severe irritation.
- Skin : Can cause severe irritation and possible burns. Components of the product may be absorbed into the body through the skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact.
- Eyes : Corrosive. Can cause severe irritation, redness, tearing and blurred vision and possible burns and corneal injury.
- Ingestion : Corrosive! Can cause severe and permanent damage to mouth, throat and stomach.
- Chronic exposure : Existing respiratory or skin ailments may be aggravated by exposure.

Carcinogenicity

	ACGIH	IARC	NTP	OSHA
BENZYL ALCOHOL	N.E.	N.E.	N.E.	N.E.
2-METHYLPENTAMETHYLENEDIAMINE	N.E.	N.E.	N.E.	N.E.
M-XYLENEDIAMINE	N.E.	N.E.	N.E.	N.E.
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	N.E.	N.E.	N.E.	N.E.
2,4,6-TRIS((DIMETHYLAMINO)METHYL)PHE NOL	N.E.	N.E.	N.E.	N.E.

4. FIRST AID MEASURES

- Eye contact : Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
- Skin contact : Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.
- Ingestion : Do not induce vomiting without medical advice. If conscious, drink plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. If a person vomits, place him/her in the recovery position. Never give anything by mouth to an unconscious person.
- Inhalation : Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

- Flash point : > 200.01 °F (93.34 °C)
- Autoignition temperature : no data available
- Lower explosion limit : no data available
- Upper explosion limit : no data available
- Suitable extinguishing media : water fog
foam
carbon dioxide (CO2)
dry chemical
- Fire and Explosion Hazards : Fire may produce irritating or poisonous fumes. Containers can build up pressure if

EPOGEL™ Part B

Version 1.2

06/02/2004

exposed to heat (fire). Cool closed containers exposed to fire with water spray.

Special Fire-fighting Procedures : As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up : Evacuate personnel to safe areas. Wear personal protective equipment. Contain spill immediately. Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Handling : Keep out of reach of children. For personal protection see section 8.

Storage : Store in a place accessible by authorized persons only. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye protection : Wear as appropriate:
safety glasses with side-shields
goggles
face-shield

Hand protection : Wear Chemically resistant gloves.

Body Protection : Wear as appropriate:
Chemically resistant clothes
preventive skin protection

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygienic Practices : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

Engineering Controls : Local exhaust ventilation can be necessary to control any air contaminants to within their TLVs during the use of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color : gray

Physical State : gel

Odor : strong

pH : no data available

Odor Threshold : no data available

EPOGEL™ Part B

Version 1.2

06/02/2004

Vapor Pressure	:	< 1 mm/Hg at 77 °F (25 °C)
Vapor Density	:	Heavier than air
Boiling point/range	:	no data available
Freeze Point	:	no data available
Water solubility	:	insoluble
Specific Gravity	:	1.58
Viscosity	:	no data available
Evaporation rate	:	no data available
Partition coefficient (n-octanol/water)	:	no data available
VOC Concentration as applied (less water and exempt solvents)	:	0 g/l Note: VOC concentration expressed as applied when all components are mixed and applied per manufacturer's instructions.

10. STABILITY AND REACTIVITY

Stability	:	Stable under recommended storage conditions.
Conditions to avoid	:	None known.
Materials to avoid	:	strong acids strong bases strong oxidizing agents
Hazardous decomposition products	:	Oxides of carbon nitrogen oxides (NO _x) Fire may produce irritating or poisonous fumes.
Hazardous polymerization	:	Will not occur when handled according to instructions.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>	<u>Exposure time</u>
	LC50	no data available		
<u>Component</u>				
BENZYL ALCOHOL	LC50	no data available		
2-METHYLPENTAMETHYLENEDIAMINE	LC50	no data available		
M-XYLENEDIAMINE	LC50	no data available		
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	LC50	no data available		

EPOGEL™ Part B

Version 1.2

06/02/2004

2,4,6-TRIS((DIMETHYLAMINO)METHYL)PHENOL LC50 no data available

Acute oral toxicity

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>
	LD50 (Oral)	no data available	

Component

BENZYL ALCOHOL	LD50 (Oral)	no data available	
2-METHYLPENTAMETHYLENEDIAMINE	LD50 (Oral)	no data available	
M-XYLENEDIAMINE	LD50 (Oral)	no data available	
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	LD50 (Oral)	550 mg/kg	rat
2,4,6-TRIS((DIMETHYLAMINO)METHYL)PHENOL	LD50 (Oral)	no data available	

Acute dermal toxicity

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>
	LD50 (Dermal)	no data available	

Component

BENZYL ALCOHOL	LD50 (Dermal)	2,000 mg/kg	rabbit
2-METHYLPENTAMETHYLENEDIAMINE	LD50 (Dermal)	no data available	
M-XYLENEDIAMINE	LD50 (Dermal)	no data available	
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	LD50 (Dermal)	no data available	
2,4,6-TRIS((DIMETHYLAMINO)METHYL)PHENOL	LD50 (Dermal)	1,280 mg/kg	rabbit

12. ECOLOGICAL INFORMATION

Ecotoxicological Information : There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province and federal regulation.

14. TRANSPORT INFORMATION

DOT	: Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (2-METHYLPENTAMETHYLENEDIAMINE; M-XYLENEDIAMINE)
	UN-No	2735
	Class	8
	Packaging group	III
	Primary Label	Corrosive

IATA	: Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (2-METHYLPENTAMETHYLENEDIAMINE; M-XYLENEDIAMINE)
------	------------------------	--

EPOGEL™ Part B

Version 1.2

06/02/2004

UN-No	2735
Class	8
Packaging group	III
Primary Label	Corrosive

15. REGULATORY INFORMATION

SARA 311/312 (RTK)

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE (ACUTE) HEALTH HAZARD DELAYED (CHRONIC) HEALTH HAZARD

SARA 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>Weight %</u>	<u>CAS No.</u>	<u>Chemical Name</u>
-----------------	----------------	----------------------

This product contains no chemicals subject to the SARA 313 supplier notification requirements.

CERCLA

CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product.

<u>RQ</u>	<u>CAS No.</u>	<u>Chemical Name</u>
-----------	----------------	----------------------

No CERCLA chemicals exist in this product above reportable concentrations.

TSCA Section 12(b) Export Notification

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

<u>CAS No.</u>	<u>Chemical Name</u>
----------------	----------------------

There are no TSCA 12(b) Chemicals in this product.

California Proposition 65

The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at < 0.1%:

<u>CAS No.</u>	<u>Chemical Name</u>
71-43-2	BENZENE

16. OTHER INFORMATION

Legend : N.E. - Not Established
 TLV - Threshold Limit Value
 STEL - Short Term Exposure Limit
 PEL - Permissible Exposure Limit
 CEIL - Ceiling

EPOGEL™ Part B

Version 1.2

06/02/2004

Prepared By : Environment, Health and Safety Department

This information is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of the manufacturer's knowledge, or is obtained from sources believed by the manufacturer to be accurate and is not intended to be all inclusive. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. The manufacturer assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, the manufacturer assumes no responsibility for injuries proximately caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.

End of MSDS.