



MATERIAL SAFETY DATA SHEET

Anchor Epoxy - Resin (Part A)

1. Product And Company Identification

Supplier

Mar-flex Waterproofing & Building Products
500 Business Parkway
Carlisle, OH 45005 USA

Telephone Number: 513-422-7285
FAX Number: 513-422-7282
E-Mail: info@mar-flex.com
Web Site: www.mar-flex.com

Manufacturer

Mar-flex Waterproofing & Building Products
500 Business Parkway
Carlisle, OH 45005 USA

Telephone Number: 513-422-7285
FAX Number: 513-422-7282
E-Mail: info@mar-flex.com
Web Site: www.mar-flex.com

Supplier Emergency Contacts & Phone Number

Chem-Trec: 1-800-424-9300

Manufacturer Emergency Contacts & Phone Number

Chem-Trec: 1-800-424-9300

Issue Date: 12/21/2011

Product Name: Anchor Epoxy - Resin (Part A)
CAS Number: Not Established
MSDS Number: 147
Product Code: IA-68170

Product/Material Uses - Anchor Epoxy is a 100% solids high modulus, high strength, epoxy gel adhesive. Used for anchoring bolts, dowels and reinforcing rebar in concrete.

Product Identification Text - Cartridge - 22 fl.oz. (.65L) - Side A and B combined

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
BISPHENOL A/EPICHLOROHYDRIN POLYMER	25068-38-6		75 - 100
LIMESTONE	1317-65-3	<	10
TALC	14807-96-6	<	10
TERPENE ALCOHOL	00098-55-5	<	3
ZINC OXIDE	01314-13-2	<	10

MIXTURE OF THE SUBSTANCES LISTED ABOVE WITH NON-HAZARDOUS ADDITIONS.

3. Hazards Identification

Primary Routes(s) Of Entry - Eye, Skin, Inhalation & Ingestion

Eye Hazards - May cause eye irritation.

Skin Hazards - May cause skin irritation.

Information pertaining to particular dangers for man and environment.

The product has to be labeled due to internationally acknowledged calculation procedures using the latest valid versions.

4. First Aid Measures

Eye - Rinse opened eye for several minutes under running water. Then consult a doctor.

Skin - Wash affected areas with soap and water and rinse thoroughly. If skin irritation continues, seek medical attention.

Ingestion - Seek immediate medical advice. Seek medical treatment.

Inhalation - Supply fresh air. In case of unconsciousness place victim stably on their side for transportation. Seek medical attention.



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Anchor Epoxy - Resin (Part A)

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point: >199 °F >93 °C

Fire And Explosion Hazards - Product does not present an explosion hazard.

Extinguishing Media - CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Fire Fighting Instructions - Because fire may produce thermal decomposition products, wear self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6. Accidental Release Measures

Wear protective equipment. Keep unprotected persons away. Contain and/or absorb spill with inert material (e.g. sand, vermiculite.) Place in closed container. Ventilate area. Keep product out of sewers and waterways by diking or impounding. Advise authorities if product has entered or may enter sewers or waterways. Assure conformity will applicable governmental regulations.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling Precautions - Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors/mists of this product. Use with adequate ventilation. Do not take internally.

Storage Precautions - Store in cool dry location. Store away from incompatible materials. Do not store together with alkalis (caustic solutions). Do not store together with oxidizing and acidic materials. Keep receptacle tightly sealed.

Work/Hygienic Practices - Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding any unnecessary exposure and removal of the material from the skin, eyes, and clothing. Wash hands and arms frequently. Shower after exposure. Wash work clothes when soiled. Safety showers and eye wash stations should be available.

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls - Ventilation: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Eye/Face Protection - Wear appropriate eye protection to prevent eye contact.

Skin Protection - To prevent repeated and prolonged skin contact, wear impervious clothing, gloves and boots.

Respiratory Protection - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Other/General Protection - Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.



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Anchor Epoxy - Resin (Part A)

8. Exposure Controls/Personal Protection - Continued

Ingredient(s) - Exposure Limits

LIMESTONE

OSHA PEL - 15 * ; 5 mg/m³ ** ; REL - 10 * ; 5*mg/m³ ** ; TLV - 10 mg/m³

*Total dust ; **Respirable fraction

TALC

ACGIH TLV - mg³/h²(SiO₃)₄

Precautions To Be Taken In Use

Use only with adequate ventiliation. Avoid breathing of vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

9. Physical And Chemical Properties

Appearance - White

Odor - Mild

Chemical Type: Mixture

Physical State: Liquid

Melting Point: Undetermined °F

Boiling Point: Undetermined °F

Percent VOCs: Not determined

Packing Density: @ 20 degrees C (68 degrees F): 1.200 g/cm³

Solubility: with water: Not miscible or difficult to mix

10. Stability And Reactivity

Stability: Stable

Conditions To Avoid (Stability) - No decomposition if used according to specifications.

Incompatible Materials - Reacts with acids, alkalis and oxidizing agents.

Hazardous Decomposition Products - Carbon monoxide and carbon dioxide.

11. Toxicological Information

Eye Effects - Irritating

Skin Effects - May cause irritation

Miscellaneous Toxicological Information - The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive, Irritant. Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Conditions Aggravated By Exposure - Sensitization possible through skin contact.

Ingredient(s) - Carcinogenicity

TALC

Listed In The IARC Monographs

12. Ecological Information

Ecotoxicological Information - Toxic for fish, plankton or any aquatic organism. Water hazard class 2 (self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water even if small quantities leach into the ground.



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Anchor Epoxy - Resin (Part A)

13. Disposal Considerations

Avoid/prevent release to the environment. Must not be disposed of as normal garbage. It is generators responsibility to determine if the waste meets applicable definitions of hazardous waste. Dispose in accordance with applicable federal, state and local government regulations.

14. Transport Information

Not regulated.

15. Regulatory Information

SARA Section 313 Notification - This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

Ingredient(s) - U.S. Regulatory Information

LIMESTONE

SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

Ingredient(s) - State Regulations

BISPHENOL A/EPICHLOROHYDRIN POLYMER

California - Proposition 65

NFPA	HMIS								
	<table><tbody><tr><td>HEALTH</td><td>1</td></tr><tr><td>FLAMMABILITY</td><td>1</td></tr><tr><td>REACTIVITY</td><td>0</td></tr><tr><td>PERSONAL PROTECTION</td><td>J</td></tr></tbody></table>	HEALTH	1	FLAMMABILITY	1	REACTIVITY	0	PERSONAL PROTECTION	J
HEALTH	1								
FLAMMABILITY	1								
REACTIVITY	0								
PERSONAL PROTECTION	J								

16. Other Information

Revision/Preparer Information

This MSDS Supercedes A Previous MSDS Dated: 01/26/1999

Disclaimer

The above information pertains to this product as currently formulated and is based on the information available at this time. Addition of reducers or other additives to these products may substantially alter the composition and hazards of the product.

Mar-flex Waterproofing & Building Products makes no warranties, express or implied and assumes no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes(s).

Mar-flex Building Solutions



MATERIAL SAFETY DATA SHEET

Anchor Epoxy - Hardener (Part B)

1. Product And Company Identification

Supplier

Mar-flex Waterproofing & Building Products
500 Business Parkway
Carlisle, OH 45005 USA

Telephone Number: 513-422-7285
FAX Number: 513-422-7282
E-Mail: info@mar-flex.com
Web Site: www.mar-flex.com

Manufacturer

Mar-flex Waterproofing & Building Products
500 Business Parkway
Carlisle, OH 45005 USA

Telephone Number: 513-422-7285
FAX Number: 513-422-7282
E-Mail: info@mar-flex.com
Web Site: www.mar-flex.com

Supplier Emergency Contacts & Phone Number

Chem-Trec: 1-800-424-9300

Manufacturer Emergency Contacts & Phone Number

Chem-Trec: 1-800-424-9300

Issue Date: 12/21/2011

Product Name: Anchor Epoxy - Hardener (Part B)
CAS Number: Not Established
MSDS Number: 148
Product Code: IA-68170

Product/Material Uses - Anchor Epoxy is a 100% solids high modulus, high strength, epoxy gel adhesive. Used for anchoring bolts, dowels and reinforcing rebar in concrete.

Product Identification Text - Cartridge - 22 fl.oz. (.65L) - Side A and B combined

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	90-72-2	<	5
2-((2-AMINOETHYL)AMINO)ETHANOL	111-41-1		10 - 25
2-PIPERAZIN-1-YLETHYLAMINE	140-31-8		10 - 25
CALCIUM CARBONATE	471-34-1		25 - 50
CYCLOHEX-1,2-YLENEDIAMINE	694-83-7		10 - 25
LIMESTONE	1317-65-3	<	5

MIXTURE OF THE SUBSTANCES LISTED ABOVE WITH NON-HAZARDOUS ADDITIONS.

3. Hazards Identification

Primary Routes(s) Of Entry - Eye, Skin, Inhalation & Ingestion

Eye Hazards - May cause eye irritation.

Skin Hazards - May cause skin irritation.

Information pertaining to particular dangers for man and environment.

The product has to be labeled due to internationally acknowledged calculation procedures using the latest valid versions.

4. First Aid Measures

Eye - Rinse opened eye for several minutes under running water. Then consult a doctor.

Skin - Wash affected areas with soap and water and rinse thoroughly. If skin irritation continues, seek medical attention.

Ingestion - Drink copious amounts of water and provide fresh air. Immediately call a doctor. Seek medical treatment.

Inhalation - Supply fresh air. In case of unconsciousness place victim stably on their side for transportation. Seek medical attention.



MATERIAL SAFETY DATA SHEET

Anchor Epoxy - Hardener (Part B)

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point: >201 °F >94 °C
Autoignition Point: 599 °F 315 °C
Lower Explosive Limit: 2.1 Vol%
Upper Explosive Limit: 10.5 Vol%

Fire And Explosion Hazards - Product does not present an explosion hazard.

Extinguishing Media - CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Fire Fighting Instructions - Because fire may produce thermal decomposition products, wear self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6. Accidental Release Measures

Wear protective equipment. Keep unprotected persons away. Contain and/or absorb spill with inert material (e.g. sand, vermiculite.) Place in closed container. Ventilate area. Keep product out of sewers and waterways by diking or impounding. Advise authorities if product has entered or may enter sewers or waterways. Assure conformity will applicable governmental regulations.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling Precautions - Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors/mists of this product. Use with adequate ventilation. Do not take internally.

Storage Precautions - Store in cool dry location. Store away from incompatible materials. Do not store together with alkalis (caustic solutions). Do not store together with oxidizing and acidic materials. Keep receptacle tightly sealed.

Work/Hygienic Practices - Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding any unnecessary exposure and removal of the material from the skin, eyes, and clothing. Wash hands and arms frequently. Shower after exposure. Wash work clothes when soiled. Safety showers and eye wash stations should be available.

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls - Ventilation: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Eye/Face Protection - Wear appropriate eye protection to prevent eye contact.

Skin Protection - To prevent repeated and prolonged skin contact, wear impervious clothing, gloves and boots.

Respiratory Protection - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or



MATERIAL SAFETY DATA SHEET

Anchor Epoxy - Hardener (Part B)

8. Exposure Controls/Personal Protection - Continued

longer exposure use respiratory protective device that is independent of circulating air.

Other/General Protection - Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Ingredient(s) - Exposure Limits

CALCIUM CARBONATE

OSHA PEL - 15* ; 5** mg/m³ ; REL - 10* ; 5** mg/m³ ; TLV - 10 mg/m³

*Total Dust ; **Respirable fraction

LIMESTONE

OSHA PEL - 15* ; 5** mg/m³ ; REL - 10* ; 5** mg/m³ ; TLV - 10 mg/m³

*Total Dust ; **Respirable fraction

Precautions To Be Taken In Use

Use only with adequate ventilation. Avoid breathing of vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

9. Physical And Chemical Properties

Appearance - Grey

Odor - Distinctive

Chemical Type: Mixture

Physical State: Liquid

Melting Point: Undetermined °F

Boiling Point: Undetermined °F

Percent VOCs: Not determined

Packing Density: @ 20 degrees C (68 degrees F): 1.640 g/cm³

Solubility: with water: Not miscible or difficult to mix

10. Stability And Reactivity

Stability: Stable

Conditions To Avoid (Stability) - No decomposition if used according to specifications.

Incompatible Materials - Reacts with acids, alkalis and oxidizing agents.

Hazardous Decomposition Products - Carbon monoxide and carbon dioxide.

11. Toxicological Information

Eye Effects - Strong caustic effect.

Skin Effects - Caustic effect on skin and mucous membranes.

Conditions Aggravated By Exposure - Sensitization possible through skin contact.

12. Ecological Information

Ecotoxicological Information - Toxic for fish, plankton or any aquatic organism. Water hazard class 2 (self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water even if small quantities leach into the ground.

13. Disposal Considerations

Avoid/prevent release to the environment. Must not be disposed of as normal garbage. It is generators responsibility to determine if the waste meets applicable definitions of hazardous waste. Dispose in accordance with applicable federal, state and local government regulations.



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Anchor Epoxy - Hardener (Part B)

14. Transport Information

Hazard Class

8

Secondary Hazard Class

Packing Class III

DOT Identification Number

UN2735

DOT Shipping Label

Amines, Liquid, Corrosive, N.O.S. (Aminoprophyldietanolamine)

15. Regulatory Information

SARA Section 313 Notification - This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

NFPA**HMIS**

HEALTH	3
FLAMMABILITY	1
REACTIVITY	2
PERSONAL PROTECTION	J

16. Other Information

Revision/Preparer Information

This MSDS Supersedes A Previous MSDS Dated: 04/02/2009

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The above information pertains to this product as currently formulated and is based on the information available at this time. Addition of reducers or other additives to these products may substantially alter the composition and hazards of the product.

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