Safety Data Sheet

Epoxy Grout Fast – PART A

1. IDENTIFICATION

24 HOUR EMERGENCY ASSISTANCE	MANUFACTURER/GENERAL MSDS ASSISTANCE
CHEM-TEL 1-800-255-3924	**ONYX CONCRETE COATINGS** **Tel.:** (714)-572-6723 **1610 E. Miraloma Ave.** **Placentia, CA 92870**

PRODUCT IDENTIFIER/NAME: **Epoxy Grout Fast – PART A**
RECOMMENDED USE: Chemical intermediate for epoxy

2. HAZARD(S) IDENTIFICATION

HAZARD CLASSIFICATION:

Acute Oral Toxicity Category 5
Skin Irritation Category 2
Skin Sensitizer Category 1
Germ Cell Mutagenicity Category 2

NFPA ratings (scale 0 – 4):

HEALTH	**1**
FIRE	**1**
REACTIVITY	**0**
SPECIAL	**-**

NFPA HAZARD RATING:
4= EXTREME **2= MODERATE** **0= INSIGNIFICANT**
3= HIGH **1= SLIGHT**

HAZARD PICTOGRAMS:

SIGNAL WORD: Warning

PHYSICAL APPEARANCE: Clear, milky liquid with faint epoxy odor

HAZARD STATEMENTS:
EYE: Minor transient irritation. No corneal injury likely.
SKIN CONTACT: May cause allergic skin reaction in susceptible individuals. Prolonged exposure not likely to cause significant skin irritation. Repeated exposure may cause skin irritation.

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD_{50} for skin absorption in rabbits is 20,000 mg/kg.
INGESTION: Low acute oral toxicity; LD_{50} (rat) greater than 4000 mg/kg. No hazards anticipated from ingestion incidental to industrial exposure.
INHALATION: Vapors are unlikely due to physical properties. Not a problem unless heated to high temperature.
SYSTEMIC AND OTHER EFFECTS: Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects. A poorly characterized sample of low molecular weight epoxy resin of this type has been reported to produce skin cancer in a highly sensitive strain of mice. However, high levels of impurities compromise the validity of the findings. Epoxy resin that is representative of current manufacturing processes is not believed to be a cancer hazard to humans. Results of mutagenicity tests in animals have been negative. Has been shown to be negative in some in vitro mutagenicity tests and positive in others.

PRECAUTIONARY STATEMENTS: Use personal protective equipment as required to minimize repeated skin exposure. Wash thoroughly after handling. If skin irritation or rash occurs: Wash with plenty of soap and water and avoid repeated exposure. IF ON SKIN: Wash with plenty of soap and water.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Reaction products of Epichlorohydrin and Bisphenol A	(CAS 25085-99-8)	> 90%
Alkyl Glycidyl Ether	(CAS 68609-97-2)	>10%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not Hazardous per this OSHA Standard may be listed. Where proprietary Ingredient shows, the identity may be made available as provided **i**n this standard**.**

4. FIRST AID MEASURES

EYES: Irrigation of the eye immediately with water for fifteen minutes is a good safety practice.
SKIN: Contact will probably cause no more than irritation. Wash off in flowing water or shower. Wash clothing before reuse.
INGESTION: Low in toxicity. No adverse effects anticipated by this **r**oute of exposure incidental to proper industrial handling.
INHALATION: Remove to fresh air if effect occurs. Consult medical personnel.
NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on **j**udgment of the physician in response to reactions of the patient.

5. FIRE-FIGHTING MEASURES

FLASH POINT: 245°F
METHOD USED: PMCC
FLAMMABLE LIMITS
LFL: Not applicable
UFL: Not applicable
EXTINGUISHING MEDIA: Foam, CO_2, dry chemical
FIRE AND EXPLOSION HAZARDS: None.
FIRE-FIGHTING EQUIPMENT: Wear positive pressure SCBA.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Large spill -- dike up and pump into appropriate containers. Small spill -- use noncombustible absorbent material/sand and shovel into suitable containers.
DISPOSAL METHOD: Large quantities should be recovered. Collect small quantities in waste metal drums and seal for removal to an approved landfill, or incinerate in accordance with local, state, and federal regulations.

7. HANDLING AND STORAGE

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Practice good caution and personnel cleanliness to avoid skin and eye contact. Avoid breathing vapors of heated material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Good room ventilation usually adequate for most operations.
RESPIRATORY PROTECTION: None normally needed.
SKIN PROTECTION: For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.
EYE PROTECTION: Use chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: Not applicable
VAP PRESS: Not applicable
VAP DENSITY: Not applicable
SOL. IN WATER: None
SP. GRAVITY: 1.12-1.14
APPEARANCE: Straw colored liquid.
ODOR: Faint epoxy odor

10. STABILITY AND REACTIVITY

STABILITY: (CONDITIONS TO AVOID) Excess heating over long periods of time degrade the resin.
INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Base.
HAZARDOUS DECOMPOSITION PRODUCTS: The by-products expected in incomplete pyrolysis or combustion of epoxy resins is mainly phenolics, carbon monoxide and water. The thermal decomposition products of epoxy resins therefore should be treated as potentially hazardous substances, and appropriate precautions should be taken.
HAZARDOUS POLYMERIZATION: Will not occur by itself but masses more than 1 pound of product plus aliphatic amine will cause irreversible polymerization with considerable heat buildup.

11. TOXICOLOGICAL INFORMATION

No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicity: **No Data Available**

Environmental Fate: **No Data Available**

Bioaccumulation: **No Data Available**

Biodegradation: **No Date Available**

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Large quantities should be recovered. Collect small quantities in waste metal drums and seal for removal to an approved landfill, or incinerate in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

Transportation Emergency Number: 1-800-255-3924 CHEM-TEL.

D.O.T. Shipping Name: Not Regulated by D.O.T.

15. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS:
The concentrations shown in this document are maximum or ceiling levels (expressed in weight %, unless otherwise specified) to be used for regulations. Trade Secrets are indicated by "TS".

SUPERFUND AMENDMENTS and REAUTHORIZATION ACT of 1986 (SARA) TITLE III:
Sections 301-304 require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355. Components present in this product at a level which could require reporting under this statute are:

Chemical Name	CAS Number	% By Weight
NONE		

Sections 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known.

EPA HAZARD CLASSIFICATIONS:

Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard
No	**No**	**No**	**No**	**No**

Section 313 requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% By Weight
NONE		

If you are unsure if you must report more information, call the EPA Emergency Planning and Right-To-Know Hot Line: 800-535-0202 or 202-479-2449.
TOXIC SUBSTANCES CONTROL ACT (TSCA):
The components of this product are contained on the chemical substance inventory list.

16. OTHER INFORMATION

Date Revised: 05/06/2015

MANUFACTURER'S NAME AND ADDRESS:
ONYX CONCRETE COATINGS
1610 E. Miraloma Ave.
Placentia, CA 92870
Telephone: 888-497-3872

The information herein is given in good faith, but no warranty expressed or implied is made. Onyx Concrete Coatings urges users of this product to evaluate its suitability and compliance with local regulations as Onyx cannot foresee the nature of the final application nor final location of usage.

Safety Data Sheet

Epoxy Grout Fast – PART B

1: Identification

24 HOUR EMERGENCY ASSISTANCE	MANUFACTURER/GENERAL MSDS ASSISTANCE
CHEM-TEL 1-800-255-3924	**ONYX CONCRETE COATINGS** **Tel.:** (714)-572-6723 **1610 E. Miraloma Ave.** **Placentia, CA 92870**

PRODUCT IDENTIFIER/NAME: **Epoxy Grout Fast – PART B**
RECOMMENDED USE: Curing agent for epoxy

2: Hazard(s) identification

GHS classification:

Acute toxicity (oral), category 4.
Acute toxicity(dermal), category 4.
Acute toxicity (inhalation), category 2.
Skin corrosion, category 1B.
Serious eye damage, category 1.
Skin sensitization, category 1.
Specific target organ toxicity - single exposure, category 3, respiratory irritation.
Reproductive toxicity, category 2.

NFPA ratings (scale 0 – 4):

HEALTH	**2**
FIRE	**1**
REACTIVITY	**0**
SPECIAL	**-**

NFPA HAZARD RATING:
4= EXTREME 3= HIGH 2= MODERATE 1= SLIGHT 0= INSIGNIFICANT

Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements:

H302 Harmful if swallowed
H312 Harmful in contact with skin
H318 Causes serious eye damage
H317 May cause an allergic skin reaction
H361 Suspected of damaging fertility or the unborn child
H335 May cause respiratory irritation
H330 Fatal if inhaled
H314 Causes severe skin burns and eye damage

Precautionary statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 Wear respiratory protection.
P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
P302+P352+P312 If on skin: Wash with soap and water. Call a poison center or doctor/physician if you feel unwell.
P303+P361+P353+P310 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P308+P313 If exposed or concerned: Get medical advice/attention.
P320 Specific treatment is urgent (see … on this label).
P330 Rinse mouth.
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents and container as instructed in Section 13.

Hazards not otherwise classified: None

3: Composition/information on ingredients

Identification	Name	Wt. %
CAS number: 111-40-0	1,2-Ethanediamine, N1-(2-aminoethyl)-	40-70
CAS number: 80-05-7	Bisphenol A	20-40

4: First-aid measures

Description of first aid measures

After inhalation:

Take precautions to ensure your own safety.
Remove source of exposure or move person to fresh air and keep comfortable for breathing.
Immediately call a POISON CONTROL CENTER or seek medical attention. If breathing has stopped, trained personnel should begin rescue breathing. Avoid mouth-to-mouth contact by using a barrier device.
If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR).

After skin contact:

Immediately call a POISON CONTROL CENTER or seek medical attention.
Avoid direct contact and wear chemical protective clothing, if necessary.
Immediately take off all contaminated clothing.
Wash with plenty of water / soap and rinse thoroughly until medical aid is available.
Gently blot or brush away excess product.
Wash contaminated clothing before re-use or discard.

After eye contact:

Get medical advice/attention.
Avoid direct contact and wear chemical protective gloves, if necessary.
Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing:

Immediately call a POISON CONTROL CENTER or seek medical attention.
Rinse mouth and do not induce vomiting.
If breathing has stopped, trained personnel should begin rescue breathing.
Avoid mouth-to-mouth contact by using supplied air / barrier device.
If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR).

Most important symptoms and effects, both acute and delayed

Acute symptoms:

Harmful if swallowed. Harmful if contact with skin. Harmful if inhaled. Causes sever skin burns and eye damage. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of damaging fertility or the unborn child.

Delayed symptoms:

No information available.

Immediate medical attention and special treatment:

No information available.

5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

Unsuitable extinguishing media:

Do not use a water stream as an extinguisher.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

Additional information:

None

6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective eye wear, gloves and clothing.
Ensure adequate ventilation.
Ensure air handling systems are operational.

Environmental precautions:

Should not be released into the environment.
Prevent from reaching drains, sewer or waterway.

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing.
Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders).
Dispose of contents / container in accordance with local regulations.

Reference to other sections:

None

7: Handling and storage

Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8).
Use only with adequate ventilation.
Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.
Wash thoroughly after handling.
Do not swallow.
Do not get in eyes, on skin, or on clothing.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.
Protect from freezing and physical damage.
Keep container tightly sealed.
Hold bulk storage under a nitrogen blanket.

8: Exposure controls/personal protection

Components with workplace control parameters:

Component name	Identifier	Permissible concentration
1,2-Ethanediamine, N1-(2-aminoethyl)-	111-40-0	NIOSH TWA 1.0 ppm 4.0 mg/m³
1,2-Ethanediamine, N1-(2-aminoethyl)-	111-40-0	ACGIH TWA: 1.0 ppm

Appropriate engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Respiratory protection:

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements

or guidelines.
If there are no applicable exposure limit requirements or guidelines, use a NIOSH-approved respirator.

Eye protection:

Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.

Skin and body protection:

Select glove material impermeable and resistant to the substance.
Suitable gloves can be recommended by glove supplier.

General hygienic measures:

Wash hands before breaks and at the end of work.
Avoid contact with skin, eyes and clothing.
Wash contaminated clothing before reusing.

9: Physical and chemical properties

Appearance (physical state, color):	Straw colored liquid	**Explosion limit lower:** **Explosion limit upper:**	1.9% 11.6%
Odor:	Ammonia-amine like odor	**Vapor pressure:**	< 1 mmHg at 20°C
Odor threshold:	Not determined or not available.	**Vapor density:**	Not determined or not available.
pH-value:	Alkaline	**Relative density:**	Not determined or not available.
Melting/Freezing point:	Not determined or not available.	**Solubilities:**	Negligible
Boiling point/range:	>200 °C	**Partition coefficient (n-octanol/water):**	Not determined or not available.
Flash point (closed cup):	103 °C	**Auto/Self-ignition temperature:**	Not determined or not available.
Evaporation rate:	Not determined or not available.	**Decomposition temperature:**	Not determined or not available.
Flammability (solid, gaseous):	Not determined or not available.	**Dynamic viscosity:**	Not determined or not available.
Density:	8.4 lbs./gal at 25°C	**Kinematic viscosity:**	Not determined or not available.

10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

Avoid extreme heat.

Incompatible materials:

Strong oxidizing agents.
Strong acids.

Hazardous decomposition products:

Carbon monoxide, carbon dioxide, and Nitrogen oxides.

11: Toxicological information

Exposure routes:

No information available.

Acute toxicity:

Oral:

1,2-Ethanediamine, N1-(2-aminoethyl)-: LD50 - Rat - 1,080 mg/kg.

Dermal:

1,2-Ethanediamine, N1-(2-aminoethyl)-: LD50 - Rabbit - 1,090 mg/kg.

Skin corrosion/irritation:

1,2-Ethanediamine, N1-(2-aminoethyl)-: Corrosive to the skin.

Serious eye damage/irritation:

Bisphenol A: Corrosive effect on the eyes.

Respiratory or skin sensitization:

Bisphenol A: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
1,2-Ethanediamine, N1-(2-aminoethyl)-: Sensitization possible through skin contact.

Carcinogenicity:

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

Germ cell mutagenicity:

No information available.

Reproductive toxicity:

Bisphenol A: Suspected of damaging fertility or the unborn child.

STOT-single and repeated exposure:

Bisphenol A: Component affects the respiratory system.

Aspiration toxicity:

No information available.

Additional toxicological information

No information available.

12: Ecological information

Ecotoxicity:

No information available.

Persistence and degradability:

No information available.

Bioaccumulative potential:

No information available.

Mobility in soil:

No information available.

Other adverse effects:

No information available.

13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies.

14: Transportation information

Land transport:

DOT (49 CFR) transport

UN Number:	UN2735
UN Proper shipping name:	UN2735, Amines, Liquid, Corrosive, N.O.S. (Diethylenetriamine, Bisphenol A), 8, II
UN Transport hazard classes:	8
Packing group:	II
Danger label:	8 Corrosive substances 
Environmental hazards:	No
Special precautions for user:	None

Air transport:

IATA-DGR

UN Number:	UN2735
UN Proper shipping name:	UN2735, Amines, Liquid, Corrosive, N.O.S. (Diethylenetriamine, Bisphenol A), 8, II
UN Transport hazard classes:	8

Packing group:	II
Danger label:	8 Corrosive substances 
Environmental hazards:	No
Special precautions for user:	None

Sea transport:

IMDG

UN Number:	UN2735
UN Proper shipping name:	UN2735, Amines, Liquid, Corrosive, N.O.S. (Diethylenetriamine, Bisphenol A), 8, II
UN Transport hazard classes:	8
Packing group:	II
Danger label:	8 Corrosive substances 
EMS code:	None
Environmental hazards:	No
Special precautions for user:	None
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable	

15: Regulatory information

North American

SARA Section 311/312 (Specific toxic chemical listings):
Acute,Chronic

SARA Section 302 (Extremely hazardous substances):
None of the ingredients are listed.

SARA Section 313 (Specific toxic chemical listings):
80-05-7 Bisphenol A.

TSCA (Toxic Substances Control Act):
All ingredients are listed.

TSCA Rules and Orders:
Not applicable.

Proposition 65 (California):

Chemicals known to cause cancer:
None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:
80-05-7 Bisphenol A.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients are listed.
Chemicals known to cause developmental toxicity:
None of the ingredients are listed.

Canada

DSL (Canadian Domestic Substances List):
All ingredients are listed.

16: Other information

Abbreviations and Acronyms: None

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 3-1-0

HMIS: 3-1-0

Initial preparation date: 11.08.2016

End of Safety Data Sheet