Safety Data Sheet

Revision Date 09.18.2018 Revision: 2

1 Identification of the substance/mixture and the company/undertaking

1.1 Product identifier
Trade name: Unisorb DCR V-100 Epoxy Grout Resin
Label name: V-100 DCR Resin

1.2 Application of the substance / the mixture: Epoxy grout

1.3 Details of the supplier of the Safety Data Sheet
Manufacturer/Supplier:

www.unisorb.com
4117 Felters Rd.
Michigan Center, MI 49254
888-4-UNISORB
ISO - 9001: 2000 Certified

1.4 Emergency telephone number:
ChemTel Inc.
(800) 255-3924, +1 (813) 248-0585

2 Hazards identification

2.1 GHS Classification of the substance or mixture

Skin Irritant 2; H315: Causes skin irritation.
Eye Irritant 2; H319: Causes serious eye irritation.
Skin Sensitizer 1; H317: May cause and allergic skin reaction.

2.2 GHS Label elements

Hazard pictograms/symbols

Signal word: Warning

Hazard statements:
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H317: May cause and allergic skin reaction.

Precautionary statements:
P280: wear protective gloves / eye protection.
P273: Avoid release to the environment.
P264: Wash thoroughly after handling.
P261: Avoid breathing mist/vapours/spray.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do .Continue rinsing.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.

Additional information: Contains epoxy constituents. May produce an allergic reaction.

HMIS Rating:

Health:	2
Flammability:	1
Physical Hazard:	0

3 Composition/information on ingredients

3.2 Mixture
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 25068-38-6	Reaction product: bisphenol - A- (epichlorhydrin) epoxy resin (number average molecular weight≤700)	60-90%
Trade Secret	Glycidyl ether	10-20%

In conformity with 29CFR 1910.1200(i) the specific chemical identity may be withheld as Trade Secret, while all health/safety properties and effects are included in the SDS.

4 First aid measures

4.1 Description of first aid measures
General information: Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Take affected persons out into the fresh air.
After inhalation: Supply fresh air**;** consult doctor in case of complaints.
After skin contact: Immediately rinse with water. If skin irritation continues, consult a doctor.
After eye contact: Remove contact lenses if worn, if possible. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor**.**
After swallowing: Rinse out mouth and then drink plenty of water. Do not Induce vomiting; call for medical help immediately.
4.2 Most important symptoms and effects, both acute and delayed: Allergic reactions, Nausea, Coughing, Gastric or intestinal disorders, Irritant to skin and mucous membranes, Irritant to eyes.
4.3 Indication of any immediate medical attention and special treatment needed: Contains reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700). May produce an allergic reaction. If necessary oxygen respiration treatment. Later observation for pneumonia and pulmonary edema. Medical supervision for at least 48 hours.

5 Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: Water haze or fog, Foam, Fire-extinguishing powder, Carbon dioxide.
For safety reasons unsuitable extinguishing agents: Water with full jet**,** Water spray
5.2 Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.
5.3 Advice for the firefighters
Protective equipment: Wear self-contained respiratory protective device, Wear fully protective suit.
Additional information: Cool endangered receptacles with water fog or haze, Eliminate all ignition sources if safe to do so.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system. Prevent from spreading (e.g. by damming–in or oil barriers).
6.3 Methods and material for containment and cleaning up: Absorb liquid components with liquid-binding material. Send for recovery or disposal in suitable receptacles. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

7 Handling and storage

7.1 Precautions for safe handling: Use only in well-ventilated areas. Store in cool, dry place in tightly closed receptacles (60-80ºF recommended).
7.2 Conditions for safe storage, including any incompatibilities: Use only receptacles specifically permitted for this substance/product. Avoid storage near extreme heat, ignition sources or open flame.
Further Information about storage conditions: Keep container tightly sealed. Store in an area with adequate ventilation.

8 Exposure controls/personal protection

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
DNELs: No further relevant information available.
PNECs: No further relevant information available.
Additional information: The lists valid during the making were used as basis.
8.2 Engineering controls Provide readily accessible eye wash stations and safety showers. Provide ventilation adequate to ensure concentrations are minimized.
8.3 Personal protective equipment
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.
Respiratory protection: Not required under normal conditions of use. Use suitable respiratory protective device in case of insufficient ventilation. For spills, respiratory protection may be advisable.Use respiratory protection when grinding or cutting material.
Hand protection: Protective, impervious gloves. (Neoprene, PVC, Nitrile rubber) The glove material has to be impermeable and resistant to the product / the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Eye protection: Safety glasses with side shields. Contact lenses should not be worn.
Skin and Body protection: Protective work clothing. Where potential exposure warrants, rubber or plastic boots and chemically resistant protective suit.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance

Form:	Liquid
Colour:	Colorless
Odour:	Sweet
Odour threshold:	No data available
pH:	No data available
Melting point/range:	No data available
Boiling point/range:	>392 °F / >200 °C
Flash point:	>302 °F / >150 °C
Evaporation rate:	No data available
Flammability (solid, gaseous):	Not applicable
Upper/lower flammability or explosive limit:	Not applicable
Vapor pressure:	No data available
Vapor density:	No data available
Relative Density at 20°C:	1.12g/cm³
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	No data available
Auto/Self-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity	900 – 1,400 cps

10 Stability and reactivity

10.1 Reactivity
10.2 Chemical stability
Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions: Reacts with strong alkali. Exothermic polymerization. Reacts with strong acids and oxidizing agents. Reacts with catalysts.

10.4 Conditions to avoid: Avoid contact with strong oxidizing agents, excessive heat or flames.
10.5 Incompatible materials: Strong acids, bases and oxidizing agents.
10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide.

11 Toxicological information

11.1 Information on likely routes of exposure:

Inhalation: May cause respiratory irritation
Ingestion: No data
Skin contact: May cause skin irritation
Eye contact: May cause eye irritation

11.2 Symptoms related to physical, chemical and toxicological characteristics: No available data

11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure:

(Data for primary component, Reaction product: bisphenol - A- (epichlorhydrin) epoxy resin)

Acute toxic:

Oral	LD50 > 2,000 mg/kg (rat)
Dermal	LD50 > 2,000 mg/kg (rat)
Inhalation	No data

Skin Corrosive/irritant:

Test material was slightly irritating to skin in key studies. For the skin, mean erythema and edema scores were 0.8 and 0.5 respectively.

Serious eye damage/eye irritation:

Test material was slightly irritating to the eye in key studies. The mean eye score was 0.4

Respiratory sensitization: No data available

Skin sensitization:

In a local lymph node assay, the concentration that would cause a 3-fold increase in proliferation (EC-3) was calculated to be 5.7% which is consistent with moderate dermal sensitization potential.

11.4 Numerical measures of toxicity: No data available for mixture**.**

Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU, Classification Guidelines for Preparations as issued in the latest version: Irritant**,** Danger through skin absorption. Toxic and /or corrosive effects may be delayed up to 24 hours, Inhalation of concentrated vapours as well as oral intake will lead to anesthesia-like conditions and headache, dizziness, etc.

12 Ecological information

12.1 Toxicity

Aquatic toxicity:

(Data taken from SDS of primary component, Reaction product: bisphenol - A- (epichlorhydrin) epoxy resin)

Fish	96hr-LC50 = 3.6mg/L test mat. *Oncorhynchus mykiss* (direct application, nominal) (OECD Guideline 203) LC50 1.41 mg/L 96hr *Oryzias latipes*
Crustacea	48hr-EC50 = 2.8mg/L test mat *Daphnia magna* (direct application, nominal, based on: mobility) (OECD Guideline 202) EC50 1.7mg/L 48hr
Aquatic Plant	72hr-EC50 > 11 mg/L *Scenedesmus capricornutum* water soluble fraction (meas. (arithm. mean)) based on: growth rate (EPA-660/3-75-009)

12.2 Persistence and degradability: No data available.
12.3 Bioaccumulative potential: No further relevant information available.
12.4 Mobility in soil: No further relevant information available.
12.5 Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.
12.6 Other adverse effects: No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods
Waste from residue/unused product: This product should not be allowed to enter drains, water courses or the soil. Dispose of this material in a safe manner and in accordance with federal, state and local regulations
Contaminated packaging: Disposal must be made in accordance with official federal, state and local regulations.

14 Transport information

DOT

UN number: Not Regulated

IATA

UN number: Not Regulated

IMDG

UN number: Not Regulated

TDG

UN number: Not Regulated

15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

United States (USA)

SARA

Section 355 (extremely hazardous substances):
None of the ingredients is listed.
Section 313 (Specific toxic chemical listings):
Component(s) above 'de minimus' level: None
TSCA (Toxic Substances Control Act):
All the ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer: None

Canada

Canadian Domestic Substances List (DSL):
All ingredients are listed.
Canadian Ingredient Disclosure list (limit 0.1%)
None of the ingredients is listed.
Canadian Ingredient Disclosure list (limit 1%)
None of the ingredients is listed.

15.2 Chemical Safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviation and acronyms:
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation

IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienist.
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substance
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)

1 Identification of the substance/mixture and the company/undertaking

1.1 Product identifier
Trade name: Unisorb DCR V-100 DCR Grout Hardener
Label name: V-100 DCR Hardener

1.2 Application of the substance / the mixture: Epoxy grout

1.3 Details of the supplier of the Safety Data Sheet
Manufacturer/Supplier:

UNISORB®
Unisorb Installation Technologies
www.unisorb.com
Box 1000 Jackson, MI 49204-1000
888-4-UNISORB·Fax 517-764-5607
ISO – 9001: 2000 Certified

1.4 Emergency telephone number:
ChemTel Inc.
(800) 255-3924, +1 (813) 248-0585

2 Hazards identification

2.1 GHS Classification of the substance or mixture

Acute Toxicity – Oral; Category 4
Acute Toxicity – Dermal; Category 4
Skin Corrosion; Category 1B
Serious Eye Damage; Category 1
Skin Sensitization; Category 1
Reproductive Toxicity; Category 2
Specific Target Organ Toxicity – single exposure; Category 3

2.2 GHS Label elements

Hazard pictograms/symbols

Signal word: Danger

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

Precautionary statements:
P201: Obtain special instructions before use.
P260: Do not breath dust/fume/gas/mist/vapours/spray.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P281: Use personal protective equipment as required
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTRE or doctor/physician.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Additional information: This product contains a component that is toxic by inhalation when aerosolized or sprayed. Please refer to Sections 11 for toxicity information. If product is not being aerosolized or sprayed, the inhalation toxicity may not be applicable.

HMIS Rating:

Health:	3
Flammability:	1
Physical Hazard:	0

3 Composition/information on ingredients

3.2 Mixture

Description: Mixture of substances listed below with potential nonhazardous additions.

Dangerous components:		
CAS: 111-40-0	Diethylenetriamine	40-70%
CAS: 80-05-7	Phenol, 4,4'-(1-methylethylidene)bis-	30-50%

4 First aid measures

4.1 Description of first aid measures

General information: Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately

After inhalation: Supply fresh air**;** consult doctor in case of complaints.

After skin contact: Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Take off contaminated clothing and shoes immediately.

After eye contact: Rinse immediately with plenty of water for at least 15 minutes. If symptoms persist, consult a doctor**.**

After ingestion: Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side. Do not Induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed: Repeated and/or prolonged exposures to low concentrations of vapors or aerosols may cause: sore throat, asthma, eye disease, kidney disorders, liver disorders, skin disorders and allergies.

4.3 Indication of any immediate medical attention and special treatment needed: Contains Phenol, 4,4'-(1-methylethylidene)bis-. May cause an allergic reaction.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Foam. Fire-extinguishing powder. Carbon dioxide.

5.2 Specific hazards arising from the substance or mixture: May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

5.3 Advice for the firefighters

Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.

Additional information: Cool endangered receptacles with water fog or haze. Eliminate all ignition sources if safe to do so.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources.

6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water. Inform respective authorities in case of seepage into water course or sewage system. Prevent from spreading (e.g. by damming–in or oil barriers).

6.3 Methods and material for containment and cleaning up: Send for recovery or disposal in suitable receptacles. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

7 Handling and storage

7.1 Precautions for safe handling: Use only in well-ventilated areas. Store in cool, dry place in tightly closed receptacles

(60-80ºF recommended).
7.2 Conditions for safe storage, including any incompatibilities: Use only receptacles specifically permitted for this substance/product. Avoid storage near extreme heat, ignition sources or open flame.
Further Information about storage conditions: Keep container tightly sealed. Store in an area with adequate ventilation.

8 Exposure controls/personal protection

8.1 Control parameters
Exposure Limits:

Diethylenetriamine	Time Weighted Average (TWA):ACGIH	1 ppm	----------
Diethylenetriamine	Recommended Exposure Limit (REL): NIOSH	1 ppm	4 mg/m3
Diethylenetriamine	Time Weighted Average (TWA):OSHA Z1A	1 ppm	4 mg/m3
Diethylenetriamine	Time Weighted Average (TWA): Permissible Exposure Limit (PEL): US CA OEL	1 ppm	4 mg/m3
Diethylenetriamine	Time Weighted Average (TWA): TN OEL	1 ppm	4 mg/m3

8.2 Engineering controls Provide readily accessible eye wash stations and safety showers. Provide ventilation adequate to ensure concentrations are minimized.
8.3 Personal protective equipment
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.
Respiratory protection: Not required under normal conditions of use. Use suitable respiratory protective device in case of insufficient ventilation. For spills, respiratory protection may be advisable. Use respiratory protection when grinding or cutting material.
Hand protection: Protective, impervious gloves. (Neoprene, Butyl-rubber, Nitrile rubber) The glove material has to be impermeable and resistant to the product / the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Eye protection: Face shield with safety glasses or goggles underneath. Contact lenses should not be worn.
Skin and Body protection: Protective work clothing. Where potential exposure warrants, rubber or plastic boots and chemically resistant protective suit.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance

Form:	Liquid
Colour:	Straw
Odour:	Amine
Odour threshold:	No data available
pH:	Alkaline
Melting point/range:	No data available
Boiling point/range:	>392 °F / >200 °C
Flash point:	>212 °F / >100 °C
Evaporation rate:	No data available
Flammability (solid, gaseous):	Not applicable
Upper/lower flammability or explosive limit:	Not applicable
Vapor pressure:	No data available
Vapor density:	No data available
Relative Density at 20°C:	1.03g/cm³
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	No data available
Auto/Self-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity	70-150 cps

10 Stability and reactivity

10.1 Reactivity
10.2 Chemical stability
Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions: Reacts with strong alkali. Exothermic polymerization. Reacts with strong acids and oxidizing agents. Reacts with catalysts.
10.4 Conditions to avoid: Avoid contact with strong oxidizing agents, excessive heat or flames.
10.5 Incompatible materials: Strong acids, bases and oxidizing agents.
10.6 Hazardous decomposition products: Nitric acid, Ammonia, Nitrogen oxides (NOx), Nitrogen oxide can react with water vapors to form corrosive nitric acid, Carbon monoxide, Carbon dioxide (CO2), Aldehydes, Flammable hydrocarbon fragments.

11 Toxicological information

11.1 Information on likely routes of exposure:

Skin contact: Harmful in contact with skin. Causes skin burns.
Eye contact: Causes eye burns.
Ingestion: Harmful if swallowed. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
Inhalation: This product contains a component that is toxic by inhalation when aerosolized or sprayed. If product is not being aerosolized or sprayed, the inhalation toxicity may not be applicable. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system. Inhalation of aerosol may cause irritation to the upper respiratory tract. May cause nose, throat, and lung irritation. Can cause severe eye, skin and respiratory tract burns.

11.2 Symptoms related to physical, chemical and toxicological characteristics: Repeated and/or prolonged exposures to low concentrations of vapors or aerosols may cause: sore throat, asthma, eye disease, kidney disorders, liver disorders, skin disorders and allergies.
11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure: This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. May cause allergic skin reaction. This product may cause adverse reproductive effects. Asthma, Eye disease, Kidney disorders, Liver disorders, Skin disorders and Allergies.
11.4 Numerical measures of toxicity: No data is available for full mixture**.**

Diethylenetriamine	CAS 111-40-0	Oral LD50	1080 mg/kg (rat)
		Dermal LD50	1090 mg/kg (rabbit)
Phenol, 4,4'-(1-methylethylidene)bis-	CAS 80-05-7	Oral LD50	3250 mg/kg (rat)
		Dermal LD50	3000 mg/kg (rabbit)

12 Ecological information

12.1 Aquatic toxicity: No data available on the product itself.
12.2 Persistence and degradability: No data available.
12.3 Bioaccumulative potential: No data available on the product itself.
12.4 Mobility in soil: No data available.
12.5 Other adverse effects: No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods
Waste from residue/unused product: This product should not be allowed to enter drains, water courses or the soil. Dispose of this material in a safe manner and in accordance with federal, state and local regulations
Contaminated packaging: Disposal must be made in accordance with official federal, state and local regulations.

14 Transport information

DOT

UN number: UN2735
Proper Shipping Name: Amines, Liquid, Corrosive, n.o.s. (Diethylenetriamine)
Hazard Class: 8
Packing Group: II
Labels(s): 8
Marine Pollutant: No

IATA

UN number: UN2735
Proper Shipping Name: Amines, Liquid, Corrosive, n.o.s. (Diethylenetriamine)
Hazard Class: 8
Packing Group: II
Labels(s): 8
Marine Pollutant: No

IMDG

UN number: UN2735
Proper Shipping Name: Amines, Liquid, Corrosive, n.o.s. (Diethylenetriamine)
Hazard Class: 8
Packing Group: II
Labels(s): 8
Marine Pollutant: No

TDG

UN number: UN2735
Proper Shipping Name: Amines, Liquid, Corrosive, n.o.s. (Diethylenetriamine)
Hazard Class: 8
Packing Group: II
Labels(s): 8
Marine Pollutant: No

15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Toxic Substance Control Act (TSCA) 12(b) Component(s): None.

Country	Regulatory list	Notification
USA	TSCA	Included on Inventory.
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

SARA

Section 355 (extremely hazardous substances):
None of the ingredients is listed.
Section 313 (Specific toxic chemical listings):
Component(s) above 'de minimus' level: Phenol, 4,4'-(1-methylethylidene)bis-
TSCA (Toxic Substances Control Act):
All the ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer or reproductive toxicity: Phenol, 4,4'-(1-methylethylidene)bis-

15.2 Chemical Safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviation and acronyms:
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienist.
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substance
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)

Safety Data Sheet

Revision Date 09.18.2018 Revision: 1

1 Identification of the substance/mixture and the company/undertaking

1.1 Product identifier
Trade name: Unisorb DCR V-100 DCR Grout Aggregate
Label name: Unisorb DCR V-100 Filler

1.2 Application of the substance / the mixture: Epoxy grout

1.3 Details of the supplier of the Safety Data Sheet
Manufacturer/Supplier:

UNISORB®
Unisorb Installation Technologies
www.unisorb.com
Box 1000 Jackson, MI 49204-1000
888-4-UNISORB·Fax 517-764-5607
ISO – 9001: 2000 Certified

1.4 Emergency telephone number:
ChemTel Inc.
(800) 255-3924, +1 (813) 248-0585

2 Hazards identification

2.1 Classification of the substance or mixture Not a hazardous substance or mixture.
2.2 GHS Label elements, including precautionary statements Not a hazardous substance or mixture.
2.3 Hazards not otherwise classified (HNOC) or not covered by GHS -

Non-classified Hazards
Eye contact: Dust may cause mechanical irritation to eyes.
Skin contact: Dries skin.
Inhalation: Causes respiratory tract irritation if inhaled.
Sensitization: Does not cause sensitization
Carcinogenicity: This product contains greater than 0.1% crystalline silica which is listed as a Group 1 carcinogen by IARC, a known carcinogen by NTP, OSHA and as A2 suspected human carcinogen by ACGIH.

3 Composition/information on ingredients

3.2 Mixture
Description: Substance listed below.

Dangerous components:		
CAS: 1317-65-3	Calcium Carbonate	98-100%
CAS: 14808-60-7	Crystalline Silica, quartz (impurity)	0.1-2%

4 First aid measures

4.1 Description of first aid measures

General advice: In case of doubt or when symptoms persist, seek medical attention.
Eye contact: Hold eyelids apart and flush eyes with a steady, gentle stream of water for several minutes.
Skin contact: Wash skin with soap and water.
Ingestion: Rinse mouth with water. Do not induce vomiting.
Inhalation: Move person to fresh air

4.2 Most important symptoms and effects, both acute and delayed: No information available.

4.3 Indication of any immediate medical attention and special treatment needed: No information available.

5 Firefighting measures

5.1 Extinguishing Media: Compatible with all media; use the medium appropriate to the surrounding fire.
Unusual Fire and Explosion Habits: None known.
Special Fire Fighting Procedures: None known.
Hazardous Combustion Products: None known.

6 Accidental release measures

Personal precautions: Avoid contact with skin and eyes. Wear suitable personal protection equipment. Avoid inhalation of mist.
Potential environmental effects: Not considered to be harmful to aquatic life
Cleanup methods: Pick up mechanically and / or by rinsing with water. Avoid dry sweeping and use a sprinkler system or exhaust ventilation to prevent dust formation.

7 Handling and storage

Handling: Avoid dust formation. Provide appropriate exhaust ventilation in places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.
Storage: Store in a dry area. Keep containers closed and protect from physical damage.

8 Exposure controls/personal protection

8.1 Control parameters

Exposure Limits:

Calcium Carbonate (Limestone) - 1317-65-3

Standard	Respirable Dust	Total Dust
MSHA/OSHA PEL (as Inert or Nuisance Dust)	5 mg/m3	15 mg/m3
ACGIH TLV (as Particles Not Otherwise Specified)	3 mg/m3	*10 mg/m3

Crystalline Silica, quartz (impurity) - 14808-60-7

Standard	Exposure Limit
MSHA/OSHA PEL* (8-Hour Time-Weighted Average)	10 mg/m3 % SiO2+2

8.2 Engineering controls

Use mechanical ventilation (dilution and local exhaust) to control exposure.
Nuisance particles/
Nuisance dust:
If not specified dusts are:
ACGIH: 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction)
OSHA PEL: 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction)

8.3 Personal protective equipment

Eye Protection: Safety glasses with side shields
Skin and Body Protection: Use suitable protective clothing, gloves and footwear, selected with regard for use conditions and exposure.
Hand Protection: Impervious gloves: chemical resistant
EN 420
Respiratory Protection: In case of exposure to high levels of airborne dust, wear a respirator
EN 149, P2 half masks.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance

Form:	Granular Solid
Colour:	Off-White to Tan
Odour:	None
Odour threshold:	None
pH:	8.4 – 10.2 (5% water suspension)
Melting point/range:	>1000 °C
Boiling point/range:	>1000 °C
Flash point:	None
Evaporation rate:	No data available
Flammability (solid, gaseous):	Non-combustible solid
Upper/lower flammability or explosive limit:	Non-combustible solid
Vapor pressure:	Not Applicable
Vapor density:	Not Applicable
Relative Density at 20°C:	2.70 g/cm³
Solubility in / Miscibility with Water:	1.3 g/l, 20° C
Partition coefficient (n-octanol/water):	Not applicable
Auto/Self-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity	Not applicable

10 Stability and reactivity

10.1 Reactivity

Reactivity: None.
Chemical Stability: Stable
Thermal Stability: Stable
Incompatibility: Strong acids/
Hazardous Decomposition Products: None
Hazardous Polymerization: Not known to polymerize.

11 Toxicological information

Non-classified Hazards
Chronic toxicity: No evidence of mutagenic or reproductive effects.
Sensitization: Does not cause sensitization
Eye irritation: Slightly irritating, not classified.
Skin irritation: Dries skin and mucous membranes.
Inhalation: Contains > 0.1% crystalline silica which can be absorbed into the body by inhalation and may have effects on the lungs, resulting in fibrosis (silicosis).
Carcinogenicity: This product contains greater than 0.1% crystalline silica which is listed as a Group 1 carcinogen by IARC, a known carcinogen by NTP, OSHA and as A2 suspected human carcinogen by ACGIH.

12 Ecological information

Potential environmental effects: Not considered to be harmful to aquatic life

Ecotoxicity: This product is considered to pose little risk to the environment.

Persistence / Degradability: Non-degradable

Bioaccumlative potential: None

Mobility: Inert material

Other Adverse Effects: None known

13 Disposal considerations

13.1 Waste treatment methods
Waste from residue/unused product: Disposal must be made in accordance with official federal, state and local regulations.
Contaminated packaging: Disposal must be made in accordance with official federal, state and local regulations.

14 Transport information

DOT
Not dangerous goods

IATA
Not dangerous goods

IMDG
Not dangerous goods

TDG
Not dangerous goods

15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EPA:
SARA Title III, Sections 302, 304, 311, 312, 313; CERCLA RQ:
This product is not subject to these referenced SARA and CERCLA regulations.
Clean Water Act
The components of this product are not regulated under any of the following sections of the Clean Water Act: Section 307 Priority Pollutants or Section 311 Hazardous Substances. It would be regulated under 304 Water Quality Criteria Substances for suspended solids.
Clean Air Act
The components of this product are not regulated under any of the following sections of the Clean Air Act: Section 112 Hazardous Air Pollutants, Section 112 Statutory Air Pollutants, Section 112 High-Risk Pollutants, Section 112(r) Accidental Release Prevention Substances or Section 602 Ozone Depleting Substance. As a powder product, it would be regulated under Section 109 Criteria Pollutants particulates.

States Right-to-Know (RTK):
California Proposition 65
This product contains a component currently on the California list of Known Carcinogens and Reproductive Toxins. Respirable crystalline silica is known to the State of California to cause cancer.
CONEG
Heavy metals defined as lead, mercury, cadmium and hexavalent chromium are not intentionally introduced to this product and with respect to lead, mercury, cadmium and hexavalent chromium, the incidental level of these four metals is less than 100 ppm.

CANADA
WHMIS:
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the CPR. This product has been classified as:
D2A - Very Toxic Material Causing Other Toxic Effects

15.2 Chemical Safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Definitions of Acronyms
ACGIH: American Conference of Governmental Industrial Hygienists
ANSI: American National Standards Institute
APF: Assigned Protection Factor
California REL: California Inhalation Reference Exposure Limit
CAS: Chemical Abstracts Service
CCOHS: Canadian Centre for Occupational Health and Safety
CEPA: Canadian Environmental Protection Agency
CERCLA: Comprehensive Environmental Response, Compensation and Liability Act
CFR: US Code of Federal Regulations
CPR: Controlled Products Regulation
DHHS: Department of Health and Human Services
DSL: Domestic Substances List
EEC: European Economic Community Guidelines
EINECS: European Inventory of Existing Commercial chemical Substances
EPA: Environmental Protection Agency
EPCRA: Emergency Planning and Community Right to Know Act
FDA: Food and Drug Administration
GHS: Globally Harmonized System
HEPA: High-Efficiency Particulate Air
IARC: International Agency for Research on Cancer
IDLH: Immediately Dangerous to Life and Health
MSHA: Mine Safety and Health Administration
NIOSH: National Institute for Occupational Safety and Health, US Department of Health and Human Services
NIOSH REL: NIOSH Recommended Exposure Limit
NPRI: National Pollutant Release Inventory
NTP: National Toxicology Program
OEL: Occupational Exposure Limit
OSHA: Occupational Safety and Health Administration, US Department of Labor
PEL: Permissible Exposure Limit
PMF: Progressive Massive Fibrosis
RCRA: Resource Conservation and Recovery Act
SARA Title III: Title III of the Superfund Amendments and Reauthorization Act, 1986
SDS: Safety Data Sheet
STOT: Specific Target Organ Toxicity
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act
TWA: Time-Weighted Average
WHMIS: Workplace Hazardous Materials Information System