SAFETY DATA SHEET



Section 1. Identification

Product Name: BD Grout (B-Side) Bridge Preservation, LLC 686 S. Adams Street Kansas City, KS 66105 913.912.3305

Spill, leak, fire, exposure, or accident, call CHEMTREC day or night Domestic North America **800.424.9300** International **703.527.3887 e-mail: ehs@versaflex.com**

Section 2. Hazards Identification

Dormal	Tovicity	Acute Tox. 3	Dormal>200+z=10	000ma/ka			
Dermal [·] Skin cor	•	1B	Dermal>200+<=1000mg/kg				
SKIT COL	IUSIVE	ID	Destruction of dermal tissue: Exposure < 1 hour Observation < 14 days, visible necrosis in at least one animal				
		•					
Eye con	IUSIVE	1	•	ge: Irreversible damage 21 days after score: Corneal opacity >= 3, Iritis > 1.5			
Skin ser	neitizer	1	Skin sensitizer	score. Comear opacity >= 3, mils > 1.5			
Mutager		2		le: May include heritable mutations in			
Matager		2	-	, Positive evidence from tests in mammals			
			-	ests, In vivo somatic genotoxicity			
			supported by in vi				
Reprodu	uctive toxin	2		evidence possibly with other information			
GHS Hazaro	d <u>s</u>		GHS Preca	utions			
H311	Toxic in co	ntact with skin	P201	Obtain special instructions before use			
H314	Causes se	evere skin burns and	P202	Do not handle until all safety			
	eye dama	ge		precautions have been read and			
H317	May cause	e an allergic skin		understood			
	reaction		P260	Do not breathe			
H318		erious eye damage		dust/fume/gas/mist/vapours/spray			
H341		l of causing genetic	P261	Avoid breathing			
	defects			dust/fume/gas/mist/vapours/spray			
H361	Suspected the unborr	l of damaging fertility or n child	P264	Wash exposed skin thoroughly after handling			
			P272	Contaminated work clothing should no be allowed out of the workplace			
			P280	Wear protective gloves/protective			
				clothing/eye protection/face protection			
			P281	Use personal protective equipment as required			
			P310	Immediately call a POISON CENTER doctor/physician			

P312	Call a POISON CENTER or
P321	doctor/physician if you feel unwell Specific treatment (as detailed on this label)
P322	Specific measures (see on this label)
P361	Remove/Take off immediately all contaminated clothing
P363	Wash contaminated clothing before reuse
P301+P330+P33	IF SWALLOWED: Rinse mouth. Do
1	NOT induce vomiting
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P35	IF ON SKIN (or hair): Remove/Take off
3	immediately all contaminated clothing.
	Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air
	and keep at rest in a position
	comfortable for breathing
P305+P351+P33	IF IN EYES: Rinse continuously with
8	water for several minutes. Remove
	contact lenses if present and easy to
P308+P313	do - continue rinsing
1 300 1 313	IF exposed or concerned: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get
	medical advice/attention
P405	Store locked up
P501	Dispose of contents/container in
	accordance with applicable regional,
	national and local laws and regulations.
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Section 3. Composites/Information on Ingredients				
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits	
Isophorone diamine 2855-13-2 20 to 30%	OELs not established	OELs not established		
Benzyl alcohol 100-51-6 20 to 30%	OELs not established	OELs not established		
Trade Secret 20 to 30%	OELs not established	OELs not established		
Triethylenetetramine 112-24-3 10 to 20%	OELs not established	OELs not established		

Diethylenetriamine	vacated PELs - 1 ppm TWA	TLV - 1 ppm TWA	
111-40-0	vacated PELs - 4 mg/m3		
1 to 5%	TWA		
Trimethylhexamethylenediam	OELs not established	OELs not established	
ine			
25620-58-0			
1 to 5%			
Bisphenol A	OELs not established	OELs not established	
80-05-7			
1 to 5%			
Phenol	PELs - 5 ppm TWA PELs -	TLV - 5 ppm TWA TLV -	
108-95-2	19 mg/m3 TWA	250 mg/g creatinine	
0.1 to 1.0%		Medium: urine Time: end	
		of shift Parameter: Phenol	
		with hydrolysis	
		(background, nonspecific)	

Section 4. First-aid Measures

Move exposed person to fresh air. If breathing is labored, oxygen should be administered by qualified personnel.

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

After contact with skin, wash immediately with plenty of warm, soapy water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Provided the patient is conscious, wash out mouth with water. Get medical attention if symptoms appear.

Section 5. Fire-fighting Measures

Extinguishing Media: Water, Foam, CO2 or dry powder.

Caution:

Heating or fire can release toxic gas.

Hazardous decomposition products:

Combustion products may include: carbon monoxide, carbon dioxide, nitrogen oxides, and hydrocarbons. **Special protective actions for fire-fighters:**

Promptly isolate the scene by removing all persons from the vicinity of the incident, if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. PVC boots, gloves, safety helmet and protective clothing should be worn.

Section 6. Accidental Release Measures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and Storage

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get into eyes.

Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and may be hazardous.

Material is to be stored in accordance with local regulations. Store in original container protected from direct sunlight in a dry and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Use appropriate containment to avoid environmental contamination.

Unsuitable containers: Do not store in containers made of copper, copper alloys or galvanized surfaces .

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Isophorone diamine 2855-13-2	OELs not established	OELs not established	
Benzyl alcohol 100-51-6	OELs not established	OELs not established	
Trade Secret N/A	OELs not established	OELs not established	
Triethylenetetramine 112-24-3	OELs not established	OELs not established	
Diethylenetriamine 111-40-0	vacated PELs - 1 ppm TWA vacated PELs - 4 mg/m3 TWA	TLV - 1 ppm TWA	
Trimethylhexamethylenedia mine 25620-58-0	OELs not established	OELs not established	
Bisphenol A 80-05-7	OELs not established	OELs not established	

Section 8. Exposure Controls/Personal Protection

Phenol 108-95-2	19 mg/m3 TWA	TLV - 5 ppm TWA TLV - 250 mg/g creatinine Medium: urine Time: end of shift	
		Parameter: Phenol with	
		hydrolysis (background, nonspecific)	

Engineering Controls: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Smell is not an adequate indicator of hazard.

Ventilation: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Protective Gear: In case of inadequate ventilation, wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Section 9. Physical and Chemical Properties

Appearance: Amber Vapor Pressure: No Data pH: No Data Freezing point: No Data Evaporation rate: No Data Explosive Limits: No Data Vapor Density: No Data Solubility: No Data Boiling range: No Data Decomposition temperature: No Data % Weight Volatile (VOC) 0.00

Odor: Faint odor Odor threshold: No Data Melting point: No Data Flash point: 212 F,100 C Flammability: No Data Vapor pressure: No Data Specific Gravity 0.999 Partition coefficient (n- No Data octanol/water): Autoignition temperature: No Data Viscosity: N/A

Section 10. Stability and Reactivity

Chemical Stability: Stable at room temperature. No specific test data related to reactivity is available for this product or its ingredients.

Hazardous reactions: None known. Stable under normal conditions.

Section 11. Toxicological Information

Oral Toxicity LD50: 2,101mg/kg Dermal Toxicity LD50: 204mg/kg Inhalation Toxicity LC50: 70mg/L

Routes of En	itry					
Inhalation	Skin C	ontact	Eye Contact	Ingestion		
Target Organ	IS					
Eyes System	Kidneys	Liver	Central Nervous	System	Skin	Peripheral Nervous
Effects of Over	exposure					
Carcinogenic CAS Numb None	-	<u>Description</u>		<u>% Weight</u>		<u>rcinogen Rating</u> Data

Section 12. Ecological Information

Only component information is listed, if any. No testing has been performed on this mixture as it relates to ecological impact.

0 1	
Component Ecotoxicity	
Isophorone diamine	72 Hr EC50 Desmodesmus subspicatus: 37 mg/L; 48 Hr EC50 Daphnia magna: 14.6 - 21.5 mg/L [semi-static]
Benzyl alcohol	96 Hr LC50 Pimephales promelas: 460 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 10 mg/L [static]; 48 Hr EC50 water flea: 23 mg/L
Triethylenetetramine	72 Hr EC50 Desmodesmus subspicatus: 2.5 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 20 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 3.7 mg/L; 96 Hr LC50 Poecilia reticulata: 570 mg/L [semi-static]; 96 Hr LC50 Pimephales promelas: 495 mg/L; 48 Hr EC50 Daphnia magna: 31.1 mg/L
Diethylenetriamine	72 Hr EC50 Pseudokirchneriella subcapitata: 1164 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 345.6 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 592 mg/L; 96 Hr LC50 Poecilia reticulata: 248 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 1014 mg/L [semi-static]; 48 Hr EC50 Daphnia magna: 16 mg/L
Trimethylhexamethylenediamine	72 Hr EC50 Desmodesmus subspicatus: 29.5 mg/L
Bisphenol A	96 Hr EC50 Pseudokirchneriella subcapitata: 2.5 mg/L; 96 Hr LC50 Pimephales promelas: 3.6 - 5.4 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 4.0 - 5.5 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4 mg/L; 96 Hr LC50 Brachydanio rerio: 9.9 mg/L [static]; 48 Hr EC50 Daphnia magna: 10.2 mg/L; 48 Hr EC50 Daphnia magna: 3.9 mg/L; 48 Hr EC50 Daphnia magna: 9.2 - 11.4 mg/L [Static]

56 Days LC100 Eisenia foetida: 6900 mg/kg [soil dry weight]; 96 Hr EC50 Pseudokirchneriella subcapitata: 46.42 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 0.0188 - 0.1044 mg/L [static]; 72 Hr EC50 Desmodesmus subspicatus: 187 - 279 mg/L [static]; 96 Hr LC50 Pimephales promelas: 11.9 -50.5 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 20.5 - 25.6 mg/L [static]; 96 Hr LC50 Pimephales promelas: 32 mg/L; 96 Hr LC50 Oncorhynchus mykiss: 5.449 - 6.789 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 7.5 - 14 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.23 - 7.49 mg/L [semistatic]; 96 Hr LC50 Oncorhynchus mykiss: 5.0 - 12.0 mg/L; 96 Hr LC50 Lepomis macrochirus: 13.5 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 11.9 - 25.3 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 11.5 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 34.09 - 47.64 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 31 mg/L [semi-static]; 96 Hr LC50 Brachydanio rerio: 27.8 mg/L; 96 Hr LC50 Cyprinus carpio: 0.00175 mg/L [semi-static]; 96 Hr LC50 Oryzias latipes: 33.9 - 43.3 mg/L [flow-through]; 96 Hr LC50 Oryzias latipes: 23.4 - 36.6 mg/L [static]; 48 Hr EC50 Daphnia magna: 4.24 - 10.7 mg/L [Static]; 48 Hr EC50 Daphnia magna: 10.2 - 15.5 mg/L

Section 13. Disposal Considerations

The generation of waste should be avoided or minimized by using excess product in an alternate, beneficial application wherever possible.

Empty containers may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

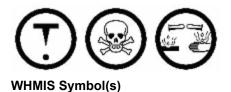
Section 14. Transport Information

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT	Polyamines, liquid, corrosive n.o.s. "Amine Hardener"	UN2735	II	8
IATA	Polyamines, liquid, corrosive n.o.s. "Amine Hardener"	UN2735	II	8
IMDG	Polyamines, liquid, corrosive n.o.s. "Amine Hardener"	UN2735	II	8

Section 15. Regulatory Information

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.



All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30, unless listed below:

- None

This product contains the following substance(s), which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372:

80-05-7 Bisphenol A 1.0 - 5% 108-95-2 Phenol 0.1 - 1.0%

Section 16. Other Information

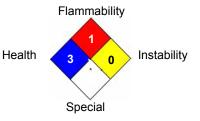
The customer is responsible for determining the proper PPE code for this material within their respective process.

Hazardous Material Information System (HMIS)

HEALTH	3	F L
FLAMMABILITY	1	۲ *
PHYSICAL HAZARD	0	0
PERSONAL PROTECTION	X	2

HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH

National Fire Protection Association (NFPA)



Date Prepared: 8/19/2015 Date revised: 2015-08-19

Reviewer Revision 4

Notice to reader:

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PUPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.