

Rev: September 22, 2015 Version 2

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product name: TEK 4000
Two-Part Epoxy (Part B)**Synonyms:** None**Product use description:**
Flooring Adhesive**Company:**
Shannon Specialty Floors
1005 South 60th Street
Milwaukee, WI 53214
(800) 522-9166**Emergency Contact:**
Chemtrec (800) 424-9300
CCN794556

SECTION 2: HAZARD(S) IDENTIFICATION

Classification:

Skin Corr. 1B	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 2	H411

Refer to Section 16 for full text of H-Phrases

Signal Word: Danger**Hazard Pictograms:**

GHS05



GHS07



GHS08

Hazard statements:

H314 - Causes severe skin burns and eye damage.
 H317 - May cause an allergic skin reaction.
 H318 - Causes serious eye damage.
 H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements:

P202 - Do not handle until all safety precautions have been read and understood.
 P260 - Do not breathe vapors, mist, or spray.
 P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
 P272 - Contaminated work clothing must not be allowed out of the workplace.
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves, protective clothing, and eye protection.
 P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 - IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position 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 center or doctor.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P362+P364 - Take off contaminated clothing and wash it before reuse.
 P405 - Store locked up.
 P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

Other hazards: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.**Unknown acute toxicity:** No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS *

<i>Component</i>	<i>CAS-No.</i>	<i>Weight %</i>	<i>Classification</i>
Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine	68082-29-1	15-40	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Propanol, oxybis-, dibenzoate	27138-31-4	3-7	Aquatic Chronic 3, H412
2,4,6-Tri(dimethylaminomethyl) phenol	90-72-2	3-7	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317
Tetraethylenepentamine	112-57-2	3-7	Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 2, H411
Triethylenetetramine	112-24-3	1-5	Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Quartz**	14808-60-7	0.1-1.0	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372

*The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

**Finely divided Quartz dust has caused cancer and lung disease in workers that inhale it over an extended period of time. Since this product is in a liquid form, the Quartz dust is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz dust are not applicable to this product.

Full text of H-phrases: see Section 16

SECTION 4: FIRST-AID MEASURES

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

Eye contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Skin contact: Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.



SECTION 4: FIRST-AID MEASURES (continued)

Effects of Overexposure: Irritation to eyes, skin and respiratory tract. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child (oral).

Eyes: Causes serious eye irritation. Symptoms may include: redness, pain, swelling, itching, burning, tearing, and blurred vision.

Skin: Causes skin irritation. Symptoms may include: redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause allergic skin reaction.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Inhalation: May cause respiratory irritation.

Chronic symptoms: Suspected of damaging fertility or the unborn child (oral).

Notes to physician: Show label where possible.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, dry chemical, or sand.

Unsuitable extinguishing media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Specific hazards from substance/mixture:

Fire hazard: Potentially violent decomposition can occur above 350°C.

Explosion hazard: Product is not explosive but if hazardous polymerization occurs can have an oxidizing effect that could lead to fire and possible explosion.

Reactivity: Hazardous polymerization can occur in contact with certain incompatible materials.

Specific hazards during fire fighting:

Precautionary measures fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

Firefighting instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Hazardous combustion products: Under fire conditions this material may produce hazardous carbon dioxide (CO₂), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

Special protective equipment for fire-fighters: Do not enter fire area without proper protective equipment, including respiratory protection.

Further information: Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:

General measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing vapor, mist, or spray. Use only outdoors or in a well-ventilated area.

For Non-Emergency Personnel

Protective equipment: Use appropriate personal protection equipment (PPE).

Emergency procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.



Methods for cleaning up: Place absorbed material in closed containers for disposal. Clean up spills immediately and dispose of waste safely. Notify authorities if product enters sewers or public waters.

Methods for containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not take up in combustible material such as: saw dust or cellulosic material.

Further information: Refer to Section 8, Exposure Controls/Personal Protection. Refer to Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:

Additional hazards when processed: Hazardous polymerization may occur if exposed to high temperature. Product to be handled in a closed system and under strictly controlled conditions.

Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.

Conditions for safe storage:

Technical measures: Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Comply with applicable regulations.

Storage conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible materials: Strong acids, strong bases, strong oxidizers. Nitrogen containing compounds, ammonium compounds.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters: For substances listed in Section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

<i>Quartz (14808-60-7)</i>		
USA ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
USA OSHA	OSHA PEL (STEL) (mg/m ³)	250 mppcf/%SiO ₂ +5, 10mg/m ³ /%SiO ₂ +2
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.05 mg/m ³ (respirable dust)
USA IDLH	US IDLH (mg/m ³)	50 mg/m ³ (respirable dust)
Alberta	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable particulate)
British Columbia	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable)
Manitoba	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
New Brunswick	OEL TWA (mg/m ³)	0.1 mg/m ³ (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
Nova Scotia	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
Nunavut	OEL TWA (mg/m ³)	0.1 mg/m ³ (respirable mass)
Northwest Territories	OEL TWA (mg/m ³)	0.1 mg/m ³ (respirable mass)
Ontario	OEL TWA (mg/m ³)	0.10 mg/m ³ (designated substances regulation-respirable)
Prince Edward Island	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
Quebec	VEMP (mg/m ³)	0.1 mg/m ³ (respirable dust)
Saskatchewan	OEL TWA (mg/m ³)	0.05 mg/m ³ (respirable fraction)
Yukon	OEL TWA (mg/m ³)	300 particle/mL
<i>Triethylenetetramine (112-24-3)</i>		
Ontario	OEL TWA (mg/m ³)	3 mg/m ³
Ontario	OEL TWA (ppm)	0.5 ppm



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Exposure controls:

Engineering controls: Emergency eyewash fountains and safety showers should be available in the immediate vicinity of any potential exposure, but are not required. Product to be handled under strictly controlled conditions. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be released. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits.

Personal protective equipment: Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection. Face shield.



Materials for protective clothing: Chemically resistant materials and fabrics.

Hand protection: Wear chemically resistant protective gloves.

Eye protection: Chemical safety goggles.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Environmental exposure controls: Do not allow the product to be released into the environment.

Consumer exposure controls: Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Appearance	Thick liquid
Odor	Amine odor
Odor threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point & range	-350°F (176.67°C)
Flash point	>200°F (93.33°C)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper flammable limit	No data available
Lower flammable limit	No data available
Vapor pressure	No data available
Vapor density at 20°C	No data available
Relative density	No data available
Solubility	No data available
Auto-ignition temperature	No data available
Decomposition Temperature	No data available
Viscosity	Approximately 30,000 cps



Partition coefficient (n-octanol/water)	No data available
Specific Gravity	1.4
Explosion data – sensitivity to mechanical impact	Not expected to present an explosion hazard due to mechanical impact.
Explosion data – sensitivity to static discharge	Not expected to present an explosion hazard due to static discharge

SECTION 10: STABILITY AND REACTIVITY

Conditions of reactivity: Hazardous polymerization can occur on heating.

Incompatible materials: Strong acids. Strong bases. Strong oxidizers. Amines.

Chemical stability: Stable under recommended handling and storage conditions (see Section 7).

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

Hazardous decomposition product: Under fire conditions this material may produce hazardous carbon dioxide (CO²), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke. Nitrogen oxides. Ammonia. Amines

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects – Product

Acute toxicity: Not classified

LD50 and LC50 data: No data available

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified

Teratogenicity: Not classified

Carcinogenicity: Not classified

Specific target organ toxicity (repeated exposure): Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Aspiration hazard: Not classified

Symptoms/Injuries after inhalation: May cause respiratory irritation

Symptoms/Injuries after skin contact: Contact may cause immediate severe irritation progressing quickly to chemical burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic reaction in sensitive individuals.

Symptoms/Injuries after eye contact: Serious damage to eyes. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

Symptoms/Injuries after ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic symptoms: No data available

Information on Toxicological Effects – Ingredients

LD50 and LC50 data:

Quartz (14808-60-7)	
LD50 Oral Rat	>5000 mg/kg
LD50 Dermal Rat	>5000 mg/kg
Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (68082-29-1)	
LD50 Oral Rat	>2000 mg/kg
LD50 Dermal Rat	>2000 mg/kg
Triethylenetetramine (112-24-3)	
LD50 Oral Rat	2500 mg/kg



LD50 Dermal Rabbit	550 mg/kg
2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)	
LD50 Oral Rat	1000 mg/kg
LD50 Dermal Rat	1280 mg/kg
Tetraethylenepentamine (112-57-2)	
LD50 Oral Rat	2100 mg/kg
LD50 Dermal Rat	660 µl/kg
Quartz (14808-60-7)	
IARC Group	Group 1
National Toxicology Program (NTP) Status	Known Human Carcinogens

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Triethylenetetramine (112-24-3)	
LC50 Fish 1	570 mg/l (exposure time: 96h - species: Poecilia reticulata [semi-static])
EC50 Daphnia 1	31.1 mg/l (exposure time: 48h - species: Daphnia magna)
LC50 Fish 2	495 mg/l (exposure time: 96h - species: Pimephales promelas)
Tetraethylenepentamine (112-57-2)	
LC50 Fish 1	420 mg/l (exposure time: 96h - species: Poecilia reticula [static])
EC50 Daphnia 1	24.1 mg/l (exposure time: 48h - species: Daphnia magna)

Persistence and degradability: No data available

Bioaccumulative potential:

Triethylenetetramine (112-24-3)	
BCF Fish 1	(no bioaccumulation expected)
Log Pow	-1.4
Tetraethylenepentamine (112-57-2)	
BCF Fish 1	(no bioaccumulation expected)
Log Pow	<1

Mobility in soil: No data available

Further information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal: Avoid release to the environment. Do not flush into surface water or sewer system.

Further information: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.



SECTION 14: TRANSPORT INFORMATION

In accordance with DOT:

Proper shipping name: CORROSIVE LIQUIDS, N.O.S. (2,4,6-Tri(dimethylaminomethyl)phenol, Tetraethylenepentamine)
 Hazard class: 8
 Identification number: UN1760
 Label codes: 8
 Packing group: II
 Marine pollutant: Marine pollutant
 ERG number: 171



In accordance with IMDG:

Proper shipping name: CORROSIVE LIQUIDS, N.O.S. (2,4,6-Tri(dimethylaminomethyl)phenol, Tetraethylenepentamine)
 Hazard class: 8
 Identification number: UN1760
 Label codes: 8
 Packing group: II
 Marine pollutant: Marine pollutant
 EmS-No. (Fire): F-A
 EmS-No. (Spillage): S-B



In accordance with IATA:

Proper shipping name: CORROSIVE LIQUIDS, N.O.S. (2,4,6-Tri(dimethylaminomethyl)phenol, Tetraethylenepentamine)
 Hazard class: 8
 Identification number: UN1760
 Label codes: 8
 Packing group: II
 ERG code (IATA): 8L



In accordance with TDG:

Proper shipping name: CORROSIVE LIQUIDS, N.O.S. (2,4,6-Tri(dimethylaminomethyl)phenol, Tetraethylenepentamine)
 Hazard class: 8
 Identification number: UN1760
 Label codes: 8
 Packing group: II
 Marine pollutant: Marine pollutant



SECTION 15: REGULATORY INFORMATION

U.S. Federal regulations:

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
Propanol, oxybis-, dibenzoate (27138-31-4)	
Listed on the United States Toxic Substances Control Act (TSCA) inventory.	
Quartz (14808-60-7)	
Listed on the United States TSCA inventory.	
Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (68082-29-1)	
Listed on the United States TSCA inventory.	
Triethylenetetramine (112-24-3)	
Listed on the United States TSCA inventory.	
2,4,6-Tri(dimethylaminomethyl) phenol (90-72-2)	
Listed on the United States TSCA inventory.	
Tetraethylenepentamine (112-57-2)	
Listed on the United States TSCA inventory.	

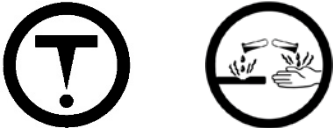


SECTION 15: REGULATORY INFORMATION (CONTINUED)

U.S. State regulations:

Quartz (14808-60-7)	
California Proposition 65 Carcinogens List	WARNING: This product contains chemicals known to the State of California to cause cancer.
Massachusetts	Right To Know List
New Jersey	Right To Know Hazardous Substances List
Pennsylvania	RTK (Right To Know) List
Triethylenetetramine (112-24-3)	
Massachusetts	Right To Know List
New Jersey	Right To Know Hazardous Substances List
Pennsylvania	RTK (Right To Know) List
Tetraethylenepentamine (112-57-2)	
Massachusetts	Right To Know List
New Jersey	Right To Know Hazardous Substances List
Pennsylvania	RTK (Right To Know) List

Canadian regulations:

WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive material
	
Propanol, oxybis-, dibenzoate (27138-31-4)	
Listed on the Canadian Domestic Substances List (DSL)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria.
Quartz (14808-60-7)	
Listed on the Canadian DSL	
Listed on the Canadian Ingredient Disclosure List (IDL)	
IDL Concentration 1%	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (68082-29-1)	
Listed on the Canadian DSL	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive material
Triethylenetetramine (112-24-3)	
Listed on the Canadian DSL	
Listed on the Canadian IDL	
IDL Concentration 0.1%	
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive material

Canadian regulations (Continued):

2,4,6-Tri(dimethylaminomethyl) phenol (90-72-2)	
Listed on the Canadian DSL	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive material
Tetraethylenepentamine (112-57-2)	
Listed on the Canadian DSL	
Listed on the Canadian IDL	
IDL Concentration 1%	
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class E - Corrosive material



WHMIS classification(s): see Canadian regulations.

Further information: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION

GHS Full Text Phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Carc. 1A	Carcinogenicity Category 1A
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Further Information:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release 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 or in any process, unless specified in the text.

Preparation Date: 09/22/2015

