

Rev: September 22, 2015 Version 2

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product name: TEK 4000
Two-Part Epoxy (Part A)**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 Irrit. 2	H315
Eye Irrit. 2A	H319
Skin Sens. 1	H317
Repr. 2	H361
Aquatic Acute 3	H402
Aquatic Chronic 3	H412

Refer to Section 16 for full text of H-Phrases

Hazard Pictograms:

GHS07



GHS08

Signal Word: Danger**Hazard statements:**

H315 - Causes skin irritation.
 H317 - May cause an allergic skin reaction.
 H319 - Causes serious eye irritation.
 H361 - Suspected of damaging fertility or the unborn child (oral).
 H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

P202 - Do not handle until all safety precautions have been read and understood.
 P261 - Avoid breathing 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.
 P302+P352 - IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 - If exposed or concerned: Get medical advice/attention.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P362 - Take off contaminated clothing and wash before reuse.
 P391 - Collect spillage
 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>
Bisphenol A-epichlorohydrin polymer	25068-38-6	10-30	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (Polyurethane Prepolymer)	102900-03-8	10-30	Eye Irrit. 2A, H319
Alkyl (C12-14) glycidyl ether	68609-97-2	5-10	Skin Irrit. 2, H315 Skin Sens. 1, H317
Trimethylolpropane triacrylate	15625-89-5	1-5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
Phenol, 4-nonyl-, branched	84852-15-3	0.5-1.5	Acute Tox, 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361
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.

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: Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Use only non-sparking tools.

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: The substance will polymerize due to heating, on contact with incompatible materials, and under the influence of light. Heating may cause violent combustion or explosion producing acrid smoke. The substance may also spontaneously polymerize if it is not stabilized. 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.

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

Incompatible materials: Strong acids, strong bases, strong oxidizers. Amines. Fluorine. Ammonium salts.

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)	0.025mg/m ³ (respirable fraction)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
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)	0.05mg/m ³ (respirable dust)
USA IDLH	US IDLH (mg/m ³)	50mg/m ³ (respirable dust)
Alberta	OEL TWA (mg/m ³)	0.025mg/m ³ (respirable particulate)
British Columbia	OEL TWA (mg/m ³)	0.025mg/m ³ (respirable)
Manitoba	OEL TWA (mg/m ³)	0.025mg/m ³ (respirable fraction)
New Brunswick	OEL TWA (mg/m ³)	0.1mg/m ³ (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m ³)	0.025mg/m ³ (respirable fraction)
Nova Scotia	OEL TWA (mg/m ³)	0.025mg/m ³ (respirable fraction)
Nunavut	OEL TWA (mg/m ³)	0.1mg/m ³ (respirable mass)
Northwest Territories	OEL TWA (mg/m ³)	0.1mg/m ³ (respirable mass)
Ontario	OEL TWA (mg/m ³)	0.10mg/m ³ (designated substances regulation-respirable)
Prince Edward Island	OEL TWA (mg/m ³)	0.025mg/m ³ (respirable fraction)
Quebec	VEMP (mg/m ³)	0.1mg/m ³ (respirable dust)
Saskatchewan	OEL TWA (mg/m ³)	0.05mg/m ³ (respirable fraction)
Yukon	OEL TWA (mg/m ³)	300 particle/mL



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.



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	Paste - Viscous liquid
Appearance	Beige thick liquid
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting point/freezing point	Freezing point: 32°F (0°C)
Initial boiling point & range	>425°F (218°C)
Flash point	>200°F (93°C) (Setaflash method)
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 85,000 cps
Partition coefficient (n-octanol/water)	No data available
Specific Gravity	1.5



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 reactions are unlikely to occur under normal circumstances.

Incompatible materials: Strong acids. Strong bases. Strong oxidizers. Amines. Fluorine. Ammonium salts.

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

Possibility of hazardous reactions: Hazardous polymerization can occur in contact with certain incompatible materials.

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.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute toxicity: Not classified

LD50 and LC50 data: No data available

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

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

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: Causes skin irritation. Symptoms may include: redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries after eye contact: Causes serious eye irritation. 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: Suspected of damaging fertility or the unborn child (oral).

Information on Toxicological Effects - Ingredients

LD50 and LC50 data:

Bisphenol A-epichlorohydrin polymer (25068-38-6)	
LD50 Oral Rat	>2000 mg/kg
LD50 Dermal Rat	>2000 mg/kg
Phenol, 4-nonyl-, branched (84852-15-3)	
LD50 Oral Rat	580 mg/kg
LD50 Dermal Rat	2031 mg/kg
Phenol (108-95-2)	
LD50 Oral Rat	340 mg/kg
LD50 Dermal Rabbit	630 mg/kg
LC50 Inhalation Rat	0.316 mg/l/4h (reported as 316 mg/m ³ /4h)
ATE US (gases)	700.00 ppmV/4h
Quartz (14808-60-7)	
LD50 Oral Rat	>5000 mg/kg



LD50 Dermal Rat	>5000 mg/kg
Trimethylolpropane triacrylate (15625-89-5)	
LD50 Dermal Rat	5000 mg/kg
Quartz (14808-60-7)	
IARC Group	Group 1
National Toxicology Program (NTP) Status	Known Human Carcinogens
Trimethylolpropane triacrylate (15625-89-5)	
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Bisphenol A-epichlorohydrin polymer (25068-38-6)	
LOEC (acute)	1 mg/l Daphnia magna
NOEC chronic crustacea	0.3 mg/l Daphnia magna
Phenol, 4-nonyl-, branched (84852-15-3)	
LC50 Fish 1	0.135 mg/l (exposure time: 96h - species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0.14 mg/l (exposure time: 48h - species: Daphnia magna)
LC50 Fish 2	0.1351 mg/l (exposure time: 96h - species: Lepomis macrochirus [flow-through])

Persistence and degradability: No data available

Bioaccumulative potential:

Phenol, 4-nonyl-, branched (84852-15-3)	
BCF Fish 1	271

Mobility in soil: No data available

Further information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal: This material is hazardous to the aquatic environment. Keep out of sewers and waterways. Do not empty into drains; dispose of this material and its container in a safe way.

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: Not regulated for transport

In accordance with IMDG: Not regulated for transport

In accordance with IATA: Not regulated for transport

In accordance with TDG: Not regulated for transport



SECTION 15: REGULATORY INFORMATION

U.S. Federal regulations:

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
Bisphenol A-epichlorohydrin polymer (25068-38-6)	
Listed on the United States Toxic Substances Control Act (TSCA) inventory.	
Phenol, 4-nonyl-, branched (84852-15-3)	
Listed on the United States TSCA inventory. Listed on United States SARA Section 313	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule.
SARA Section 313 - Emission Reporting	1.0%
Alkyl (C12-14) glycidyl ether (68609-97-2)	
Listed on the United States TSCA inventory.	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
Propanol, oxybis-, dibenzoate (27138-31-4)	
Listed on the United States TSCA inventory.	
Quartz (14808-60-7)	
Listed on the United States TSCA inventory.	
Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (102900-03-8) (Polyurethane Prepolymer)	
Listed on the United States TSCA inventory.	
Trimethylolpropane triacrylate (15625-89-5)	
Listed on the United States TSCA inventory.	


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



SECTION 15: REGULATORY INFORMATION (CONTINUED)

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.
	
Bisphenol A-epichlorohydrin polymer (25068-38-6)	
Listed on the Canadian Domestic Substances List (DSL).	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects.
Phenol, 4-nonyl-, branched (84852-15-3)	
Listed on the Canadian DSL.	
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.
Alkyl (C12-14) glycidyl ether (68609-97-2)	
Listed on the Canadian DSL.	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects.
Propanol, oxybis-, dibenzoate (27138-31-4)	
Listed on the Canadian 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.
Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (102900-03-8) (Polyurethane Prepolymer)	
Listed on the Canadian DSL.	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects.
Trimethylolpropane triacrylate (15625-89-5)	
Listed on the Canadian DSL.	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects.

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. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
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
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Muta. 2	Germ cell mutagenicity Category 2
Repr. 2	Reproductive toxicity Category 2
Resp. Sens. 1	Respiratory sensitization 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
Skin Sens. 1B	Skin sensitization Category 1B
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2

GHS Full Text Phrases (Continued):

STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic 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
H319	Causes serious eye irritation
H320	Causes eye irritation
H331	Toxic if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause 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.

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