



Safety Data Sheet
Tech-Mix® Tile & Grout Defender
© TCC Materials
Version 1.0

TCC Materials
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Mendota Heights, MN 55120-1221

Emergency Telephone Number:
651-688-9116
Information Telephone Number
651-905-8137

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Section 1: Product Identification

Product Type: Ceramic Tile and Grout Sealer

Product Name:

Tech-Mix® Tile & Grout Defender

Chemical name: Proprietary emulsion

Recommended use: Waterproofing sealer, concrete/masonry

Section 2: Hazard Identification

Classification of the Product:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation:	Category 2
Serious eye damage/eye irritation:	Category 2A

GHS Label Elements, Including Precautionary Statements

Signal Word: Warning



Hazard Statements:

Causes skin irritation.
Causes serious eye irritation.

Appearance: White.
Physical State: Emulsion Liquid.
Odor: None.

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Wear eye/face protection.



Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label).

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

Skin

IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Precautionary Statements – Storage: None

Precautionary Statements – Disposal: None

Hazards not otherwise classified: Not applicable

Unknown Toxicity

2.5% of the mixture consists of ingredient(s) of unknown toxicity.

Other information

No information available.

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

Section 3: Hazardous Ingredients/Composition

Ingredient	Typical Percentage	CAS #
Proprietary ingredients	1-5%	Proprietary*
Ethanol	0.1-1%	64-17-5

*Specific chemical compositions withheld as trade secret. They are available upon request to health professionals, employees and their designated representatives in accord with 29CFR1910.1200(i).

Section 4: First Aid Measures

Description of First Aid measures

General Advice:

Show this safety data sheet to the doctor in attendance.



Inhalation:

Remove to fresh air.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin Contact:

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion:

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see Section 8).

Most Important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects:

Burning sensation.

Indication of any immediate medical attention and special treatment needed

Note to physician: Treat according to symptoms.

Section 5: Fire Fighting Measures

Fire extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Special hazards arising from the substance or mixture

No information available.

Uniform Fire Code

Irritant: Liquid

Hazardous Combustion Products

Carbon oxides.



Explosion Data

Sensitivity to Mechanical Impact	No.
Sensitivity to Static Discharge	No.

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.

Other Information

Refer to protective measures listed in Sections 7 and 8.

Environmental Precautions

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for Containment:

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up:

Soak up with inert absorbent material (e.g. sand, vermiculite). Pick up and transfer to properly labeled containers. Dispose in proper receptacle.

Section 7: Handling and Storage

Precautions for Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Keep out of the reach of children and animals.

Conditions for safe storage, including any incompatibilities

Storage:

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not puncture.

Incompatible Products

Strong acids. Strong oxidizing agents. Strong bases.



Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NOISH IDLH
Proprietary ingredients	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m ³ (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m ³ (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m ³	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m ³ STEL: 6 ppm STEL: 15 mg/m ³
Ethanol	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value
OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits
IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

Appropriate Engineering Controls

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Skin and body protection: Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves.



Eye/face protection: Wear safety glasses with side shields (or goggles).

General safety and hygiene safety measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands and face after use. Launder contaminated clothing before re-use. Always use protective equipment to avoid direct contact.

Section 9: Physical and Chemical Properties

Physical State:	Emulsion liquid.
Appearance:	White.
Odor:	None.
Odor Threshold:	no data available.
Color:	Milky white to clear.
pH value:	8.0
Melting point:	no data applicable.
Boiling Point:	100°C / 212°F
Flash point:	no data available.
Evaporation Rate:	no data available.
Flammability (solid, gas):	no data available.
Upper flammability limit:	no data available.
Lower flammability limit:	no data available.
Vapor pressure:	no data available.
Specific Gravity:	no data available.
Water Solubility:	Miscible in water.
Solubility in other solvents:	no data available.
Partition coefficient: n-octanol/water:	no data available.
Autoignition temperature:	no data available.
Decomposition temperature:	no data available.
Kinematic viscosity:	no data available.
Dynamic viscosity:	1.
Explosive properties:	no data available.
Oxidizing Properties:	no data available.
Other Information	
Softening Point:	no data available.
VOC Content (%):	no data available.
Particle Size No:	no data available.



Section 10: Stability and Reactivity

Reactivity: No data available.

Stable Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None under normal processing.

Hazardous Polymerization: Does not occur.

Conditions to Avoid: None known based on information supplied.

Incompatible Materials: Strong acids. Strong oxidizing agents. Strong bases.

Hazardous Decomposition Products: Carbon oxides.

Section 11: Toxicological Information

Information on Primary routes of exposure:

Product Information:

Inhalation: Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

Eye Contact: Specific test data for the substance or mixture is not available. Causes serious eye irritation (based on components). May cause redness, itching, and pain.

Skin Contact: Specific test data for the substance or mixture is not available. Causes skin irritation (based on components). Prolonged contact may cause redness and irritation.

Ingestion: Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Component Information:

Chemical Name	Oral LD50	Dermal LD 50	Inhalation LC50
Proprietary ingredient	= 1720 mg/kg (Rat)	= 1000 mg/kg (Rabbit) = 1 mL/kg (Rabbit)	
Ethanol	= 7060 mg/kg (Rat)		= 124.7 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms: Erythema (skin redness). May cause redness and tearing of the eyes.



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

Sensitization: No information available.

Mutagenic Effects: No information available.

Carcinogenicity:

The table below indicates whether each agency has listed any ingredient as a carcinogen. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanol	A3	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive Toxicity: No information available.

STOT - single exposure: No information available.

STOT - repeated exposure: No information available.

Chronic Toxicity: No known effect based on information supplied.

Target Organ Effects: Respiratory system. Eyes. Skin. Central Nervous System (CNS). Digestive System. Kidney. Liver. Testes.

Aspiration Hazard: No information available.

Numerical Measures of Toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-dust/mist): 150.00 mg/l

ATEmix (inhalation-vapor): 1,100.00 ATE mix



Section 12: Ecological Information

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Proprietary Ingredient	72h EC50: = 15 mg/L (Desmodesmus subspicatus)	96h LC50: = 3684 mg/L (Brachydanio rerio) 96h LC50: 300 - 1000 mg/L (Lepomis macrochirus) 96h LC50: 114 - 196 mg/L (Oncorhynchus mykiss) 96h LC50: > 200 mg/L (Oncorhynchus mykiss) 96h LC50: = 227 mg/L (Pimephales promelas)	EC50 = 110 mg/L 17 h EC50 = 12200 mg/L 2 h EC50 = 13.7 mg/L 30 min	48h EC50: = 65 mg/L
Ethanol 64-17-5		96h LC50: 12.0 - 16.0 mL/L (Oncorhynchus mykiss) 96h LC50: > 100 mg/L (Pimephales promelas) 96h LC50: 13400 - 15100 mg/L (Pimephales promelas)	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	48h LC50: 9268 - 14221 mg/L 48h EC50: = 2 mg/L 24h EC50: = 10800 mg/L

Persistence and Degradability: No information available.

Bioaccumulation

Chemical Name	Log Pow
Proprietary Ingredient	-1.91
Ethanol	-0.32



Other Adverse Effects: No information available.

Section 13: Disposal Considerations

Waste Treatment Methods

Disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Dispose of contents/containers in accordance with local regulations.

California Hazardous Waste Codes: 135

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Ethanol 64-17-5	Toxic Ignitable

Section 14: Transportation

DOT:	NOT REGULATED
Proper Shipping Name:	NON REGULATED
Hazard Class:	N/A
TDG:	Not regulated
MEX:	Not regulated
ICAO:	Not regulated
IATA:	Not regulated
Proper Shipping Name:	NON REGULATED
Hazard Class:	N/A
IMDG/IMO:	Not regulated
Hazard Class:	N/A
RID:	Not regulated
ADR:	Not regulated
ADN:	Not regulated



Section 15: Regulatory Information

International Inventories

TSCA: Complies
DSL: All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories:

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden release of pressure hazard:	No
Reactive Hazard:	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65



This product contains the following Proposition 65 chemicals. The listed substance(s) is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage. For more information go to www.P65Warnings.ca.gov.



Chemical Name	California Proposition 65
Ethanol 64-17-5	Carcinogen Developmental

U.S. State Right-to-Know Regulations:

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Proprietary Ingredient	X				
Proprietary Ingredient	X	X	X		X
Proprietary Ingredient	X		X		
Ethanol	X	X	X		X

International Regulations:

Mexico

National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Proprietary Ingredient		Mexico: TWA 3 ppm Mexico: TWA 8 mg/m ³ Mexico: STEL 6 ppm Mexico: STEL 15 mg/m ³
Ethanol		Mexico: TWA 1000 ppm Mexico: TWA 1900 mg/m ³

Mexico - Occupational Exposure Limits - Carcinogens

Canada

WHMIS Hazard Class

Not determined

Section 16: Other Information

NFPA:

Health Hazard	Flammability	Instability	Physical and Chemical Hazards
2	0	0	

HMIS:

Health Hazard	Flammability	Physical Hazard	Personal Protection
2	0	0	X



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Additional information on the products is available at: www.tccmaterials.com

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