

# LiquaTile 1187 Hardener

(Part B)

Safety Data Sheet (SDS)

## **Section 1 - Product and Company Identification**

Trade Name: LiquaTile 1187 Hardener (All Versions)

#### Company:

Wolverine Coatings Corporation 5969 US Highway 221 Roebuck, SC 29376 +1 (864) 587-3144 Product Code: LiquaTile 1187-020 NU2A Hardener

## **Emergency Contact:**

ChemTel 24 Hr. US Emergency Number: +1 (800) 255-3924 ChemTel 24 Hr. Worldwide Emergency Number: +1 (813) 248-0585

**Product Use:** Coatings

Not recommended for: None Identified

## **Section 2 - Hazards Identification**

## **GHS Ratings:**

Skin Corrosive	1B	Destruction of dermal tissue: Exposure < 1 hour Observation < 14 days, visible necrosis in at least one animal		
Eye Corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5		
Skin Sensitizer	1	Skin Sensitizer		
Mutagen	1B	Known to produce heritable mutations in human germ cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity		
Carcinogen	1A	Known Human Carcinogen Based on human evidence		
Aquatic toxicity	NONE			
GHS Hazards				
H314	Cause	s severe skin burns and eye damage		
H317	May c	ause an allergic skin reaction		
H318	Cause	s serious eye damage		
H340	May c	ause genetic defects		
H350	May c	ause cancer		
GHS Precautions				
P201	Obtain	special instructions before use		
P202	Do not	t handle until all safety precautions have been read and understood		
P260	Do not	t breathe dust/fume/gas/mist/vapours/spray		
P261	Avoid	breathing dust/fume/gas/mist/vapours/spray		
P264	Wash	thoroughly after handling		
P272	Contai	minated work clothing should not be allowed out of the workplace		
P280	Wear	Wear protective gloves/protective clothing/eye protection/face protection		
P281	Use pe	Use personal protective equipment as required		
P310	Immediately call a POISON CENTER or doctor/physician			
P321		ic treatment (see label)		
P363		contaminated clothing before reuse		
P301+P330+P331	IF SW	ALLOWED: Rinse mouth. Do NOT induce vomiting		
P302+P352		SKIN: Wash with soap and water		
P303+P361+P353		SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse ith water/shower		

P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable
P305+P351+P338	for breathing IF IN EYES: Rinse continuously with water for several minutes. Remove contact
P308+P313	lenses if present and easy to do – continue rinsing 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 all local, regional, national, and international regulations.

## Signal Word: Danger



## Section 3 - Composition / Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
Benzyl Alcohol	100-51-6	30.00% - 40.00%
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	68410-23-1	20.00% - 30.00%
Extra Pure Calcined Ceramic Oxides	1344-28-1	10.00% - 20.00%
Quartz	14808-60-7	5.00% - 10.00%
Trade Secret		5.00% - 10.00%
Hydrous magnesium silicate	14807-96-6	1.00% - 5.00%
Silicon dioxide, chemically prepared	112945-52-5	1.00% - 5.00%

#### **Section 4 - First Aid Measures**

**Inhalation:** If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

**Eye Contact:** Immediately flush eyes for at least fifteen minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. If eye irritation persists: Get medical advice/attention.

**Skin contact:** Immediately remove contaminated clothing and shoes. Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Get immediate medical attention.

## **Section 5 - Fire Fighting Measures**

Flash Point:

100 C (212 F) LEL: 1.00

UEL: 13.00

**Extinguishing Media:** Use carbon dioxide, foam, dry chemical, dry sand, water fog, or limestone powder extinguishing systems.

#### Unusual Fire and Explosion Hazards: None

**Hazardous combustion products:** Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (Stability and Reactivity) for additional information.

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**Special Fire Fighting Procedures:** Firefighters should be equipped with self-contained breathing apparatus. **Fire Equipment:** No Data

#### Section 6 - Accidental Release Measures

**Spill And Leak Procedures:** Avoid all personal contact. Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Spills should be contained, solidified, and placed in suitable containers for disposal.

#### Section 7 - Handling and Storage

**Handling Precautions:** Use good laboratory/workplace procedures. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Discard shoes contaminated with this product.

**Storage Requirements:** Keep away from heat, sparks, and open flames. Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use.

#### **Section 8 - Exposure Controls / Personal Protection**

Chemical Name / CAS #	<b>OSHA Exposure Limits</b>	ACGIH Exposure Limits	Other Exposure Limits
Benzyl Alcohol 100-51-6	Not Established	Not Established	Not Established
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines 68410-23-1	Not Established	Not Established	Not Established
Extra Pure Calcined Ceramic Oxides 1344-28-1	TWA: 15 mg/m3 total dust TWA: 5 mg/m3 Respirable fraction	TWA: 1 mg/m3	Not Established
Quartz 14808-60-7	TWA30 mg/m3 / %SiO2+2 total dust TWA: 10 mg/m3 /%SiO2+2 respirable fraction	TWA: 0.025 mg/m3	Not Established
Trade Secret	Not Established	Not Established	Not Established
Hydrous magnesium silicate 14807-96-6	TWA: 20 million particles per ft3	TWA: 2 mg/m3	Not Established
Silicon dioxide, chemically prepared 112945-52-5	TWA: 20 Million particles per cubic foot	Not Established	Not Established

112945-52-5

**Ventilation:** Good general mechanical ventilation and local exhaust is recommended.

**Hygiene:** Eye wash must be easily accessible. Wear protective clothing as necessary to prevent contact. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Gloves must be inspected regularly and prior to each use. Replace if necessary.

Personal Protective Equipment: Wear impervious protective gloves. Wear OSHA, NIOSH approved organic

vapor respirator if ventilation is inadequate. Wear appropriate protective eyewear such as splash-proof, chemical resistant safety goggles.

**Contaminated Gear:** Take off all contaminated clothing immediately. Wash contaminated clothing before reuse.

#### **Section 9 - Physical and Chemical Properties**

This mixture typically exhibits the following properties under normal circumstances:

Appearance:	Liquid	Odor:	Not available
Vapor Pressure:	0.92 mm Hg	Odor threshold:	Not available
Vapor Density:	Not available	pH:	Not available
Density (g/cm3):	1.25	Melting point:	Not available
Freezing point:	Not available	Solubility:	Not available
Boiling range:	Not available	Flash point:	100°C, 212°F
Evaporation rate:	Not available	Flammability:	Not available
Explosive Limits:	Not available	Partition coefficient (n- octanol/water):	Not available
Autoignition temperature:	Not available	Decomposition temperature:	Not available
Viscosity:	Not available	Grams VOC less water:	Not available

#### **Section 10 - Stability and Reactivity**

## Stability:

STABLE

#### Components of this mixture are incompatible with the following materials:

Strong Acids Strong Oxidizers

#### This mixture is likely to exhibit the following combustion products:

Carbon Dioxide, Carbon Monoxide Biphenyls Nitrogen Oxides Hydrocarbons

Hazardous polymerization will not occur.

#### **Section 11 - Toxicological Information**

#### Mixture Toxicity:

Oral Toxicity LD50: 2,875mg/kg Inhalation Toxicity LC50: 9mg/L

#### **Component Toxicity:**

#### **Routes of Entry:**

Inhalation Skin Contact Eye Contact Ingestion

#### Exposure to this material may affect the following organs:

Lungs Respiratory System

 The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing):

 CAS Number
 Description

 % Weight
 Carcinogen Rating

14808-60-7	Quartz	5 to 10%	Quartz: If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.
Section 12 - Ecolo	gical Information		
Component Ecotox	kicity:		

Benzyl Alcohol	LC50 460 mg/l fish 96 h; EC50 360 ppm water flea 48 h; EC50 640 mg/l algae 96 h; EC10 658 mg/l bacteria 16 h
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	LC50 10 mg/l fish 96h; EC50 1 mg/l water flea
Quartz	LC50 >10,000 mg/l fish 72h; EC50 7600 mg/L water flea 48h; EC50 440mg/L algae, 72h;
Trade Secret	LC50 87.6 mg/l fish 96h; EC50 15.2 mg/l water flea 48h; EC50 32.1 algae 72h; EC50 >1000 mg/l Bacteria 30h
Hydrous magnesium silicate	LC50 >100 g/l fish
Silicon dioxide, chemically prepared	LC50 >10,000 mg/l fish 96h; EC50 >1000 mg/l water flea 24h;

## Section 13 - Disposal Considerations

Waste disposal Methods: Dispose in accordance with Federal, State and Local regulations.

#### **Section 14 - Transport Information**

This material is classified for transport as follows:

<u>Agency</u> DOT	<b>Proper Shipping Name</b> Paint Related Material, Corrosive	<u>UN Number</u> 3066	Packing Group	Hazard Class 8
IATA	No Data			
IMDG	No Data			

## **Section 15 - Regulatory Information**

#### Additional regulatory listings, where applicable:

## State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

Hydrous magnesium silicate 14807-96-6 Quartz 14808-60-7

## Materials not included on the Canada DSL inventory:

- None

**Commonwealth of Massachusetts "Right to Know":** This product contains the following toxic or hazardous substances which appear on the Massachusetts Substance List:

Hydrous magnesium silicate 14807-96-6 Trade Secret Quartz 14808-60-7 Extra Pure Calcined Ceramic Oxides 1344-28-1 Benzyl Alcohol 100-51-6

**NJ "Right to Know":** This product contains the following toxic or hazardous substances which appear on the New Jersey Substance List:

Silicon dioxide, chemically prepared 112945-52-5 Hydrous magnesium silicate 14807-96-6 Trade Secret Quartz 14808-60-7 Extra Pure Calcined Ceramic Oxides 1344-28-1 Benzyl Alcohol 100-51-6

**Pennsylvania "Right to Know":** This product contains the following toxic or hazardous substances which appear on the Pennsylvania Substance List:

Silicon dioxide, chemically prepared 112945-52-5 Hydrous magnesium silicate 14807-96-6 Trade Secret Quartz 14808-60-7 Extra Pure Calcined Ceramic Oxides 1344-28-1 Benzyl Alcohol 100-51-6

## EPA SARA Title III Section 313 (40 CFR 372) components above 'de minimum' level:

Extra Pure Calcined Ceramic Oxides 1344-28-1

**Toxic Substances Control Act (TSCA):** All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

#### <u>Country</u>

**Regulation** 

#### **All Components Listed**

#### EU Risk Phrases

#### Safety Phrase

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

EPA SARA Title III Section 313 (40 CFR 372) compnenets above 'de minimum' level:

## Section 16 - Other Information

For further information, please contact the Product Safety director. The information and recommendations contained herein are, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. No representations or warranties, either expressed or implied of merchantability, fitness for a particular purpose, or any other nature, are made hereunder with respect to the information contained herein, or to the chemical to which the user refers.

## SDS: LiquaTile 1187 Hardener

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