# Safety Data Sheet

Issue Date: 17-Jan-2019

Revision Date: 21-Jan-2019

Version 1

# **1. IDENTIFICATION**

Product identifier			
Product Name	TopShell®		
Other means of identification			
SDS #	TOP-001		
Decommonded use of the chami	and restrictions on use		
Recommended use of the chemi Recommended Use	<u>cal and restrictions on use</u> Topshell® was designed to aggressively bond to existing asphalt surfaces and roadways. TopShell® creates a new, extremely durable wearing surface that protects existing asphalt from further deterioration. TopShell® was also designed to resurface concrete surfaces. TopShell® provides a new, extremely durable wearing surface to worn or scaling concrete.		
Details of the supplier of the safe	ety data sheet		
Supplier Address TopShell LLC P.O. Box 50222 Austin, TX 78763			
Emergency telephone number Company Phone Number Emergency Telephone	(888) 488-4577 INFOTRAC 1-352-323-3500 (International)		
	1-800-535-5053 (North America)		
	2. HAZARDS IDENTIFICATIO	N	
Appearance Grey powder	Physical state Solid	Odor Mild	
Classification_			
Skin corrosion/irritation		Category 1	
Serious eye damage/eye irritation		Category 1	
Carcinogenicity		Category 1A	
Specific target organ toxicity (repeated exposure)		Category 1	
<u>Signal Word</u> Danger			
Hazard statements Causes severe skin burns and eye May cause cancer Causes damage to organs through	-		



### Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not breathe dust/fume/gas/mist/vapors/spray Do not eat, drink or smoke when using this product

### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

### Precautionary Statements - Storage

Store locked up

## Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

### Other hazards

Toxic to aquatic life with long lasting effects

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Silica, Quartz	14808-60-7	45-75
Portland cement	65997-15-1	30-40
Titanium dioxide	13463-67-7	1-7
Calcined Kaolin	92704-41-1	1-7
Citric Acid	77-92-9	0.5-5
Amorphous silica	112926-00-8	0.5-5
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	0.5-5
Amorphous silica (glass)	7631-86-9	<1

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. \*\*

# **4. FIRST AID MEASURES**

### **Description of first aid measures**

General Advice	Immediately call a poison center or doctor/physician.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
Skin Contact	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor/physician.
Ingestion	Rinse mouth. Do NOT induce vomiting.

#### Most important symptoms and effects, both acute and delayed

Symptoms	Causes severe skin burns and eye damage. May cause cancer. Causes damage to organs
	through prolonged or repeated exposure.

# Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

### Suitable Extinguishing Media

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

### Unsuitable Extinguishing Media Not determined.

### Specific Hazards Arising from the Chemical

Not determined.

### Protective equipment and precautions for firefighters

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

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protective equipment as required.

### Environmental precautions

### Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
-------------------------	---

Methods for Clean-Up Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on Safe Handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

Storage Conditions	Store locked up.
--------------------	------------------

Incompatible Materials None known based on information supplied.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silica, Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable particulate matter	TWA: 50 µg/m <sup>3</sup> TWA: 50 µg/m <sup>3</sup> excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m <sup>3</sup> respirable dust : (250)/ (%SiO2 + 5) mppcf TWA respirable fraction : (10)/ (%SiO2 + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Portland cement 65997-15-1	TWA: 1 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter	(vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction TWA: 50 mppcf <1% Crystalline silica	IDLH: 5000 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup> CIB 63 fine TWA: 0.3 mg/m <sup>3</sup> CIB 63 ultrafine, including engineered nanoscale
Citric Acid 77-92-9	-	15 mg / m3 (Total)	-
Amorphous silica 112926-00-8	-	(vacated) TWA: 6 mg/m <sup>3</sup> TWA: 20 mppcf : (80)/ (% SiO2) mg/m <sup>3</sup> TWA	_
Aluminum Oxide 1344-28-1	TWA: 1 mg/m <sup>3</sup> respirable particulate matter	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	-
Amorphous silica (glass) 7631-86-9	-	TWA: 50 µg/m <sup>3</sup> excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 6 mg/m <sup>3</sup> <1% Crystalline silica TWA: 20 mppcf : (80)/ (% SiO2) mg/m <sup>3</sup> TWA	IDLH: 3000 mg/m <sup>3</sup> TWA: 6 mg/m <sup>3</sup>

## Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

# Individual protection measures, such as personal protective equipment

Eye/Face Protection	Refer to 29 CFR 1910.133 for eye and face protection regulations.	
Skin and Body Protection	Refer to 29 CFR 1910.138 for appropriate skin and body protection.	
<b>Respiratory Protection</b>	Refer to 29 CFR 1910.134 for respiratory protection requirements.	
General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.		

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state	Solid		
Appearance	Grey powder	Odor	Mild
Color	Grey	Odor Threshold	Not determined
Bronortu	Values	Domorko - Mothod	
Property	Values	Remarks • Method	
pH Malting paint (fragging paint			
Melting point / freezing point	>2,000 °C / >3,632 °F		
Boiling point / boiling range	Not determined		
Flash point	Not determined		
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Not determined		
Flammability Limit in Air			
Upper flammability or explosive	Not determined		
limits			
Lower flammability or explosive	Not determined		
limits			
Vapor Pressure	Not determined		
Vapor Density	Not determined		
Relative Density	Not determined		
Water Solubility	Insoluble in water		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Autoignition temperature	Not determined		
Decomposition temperature	Not determined		
Kinematic viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		
Other information			
Bulk density	1.35 g/cm3		
Buik defisity			
10. STABILITY AND REACTIVITY			
IU. STABILITT AND REACTIVITT			

### **Reactivity**

Not reactive under normal conditions.

### **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

None under normal processing.

# **Conditions to Avoid**

Keep out of reach of children.

### Incompatible materials

None known based on information supplied.

## Hazardous decomposition products

None known based on information supplied.

# **11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

Product Information	
Eye Contact	Avoid contact with eyes.
Skin Contact	Avoid contact with skin.
Inhalation	Do not inhale.
Ingestion	Do not ingest.

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Calcined Kaolin 92704-41-1	> 2000 mg/kg (Rat)	-	-
Citric Acid 77-92-9	= 3 g/kg (Rat) = 3000 mg/kg (Rat)	-	-
Sodium carboxymethyl cellulose 9004-32-4	= 27000 mg/kg (Rat)	> 2 g/kg (Rabbit)	> 5800 mg/m³ (Rat) 4 h
Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0	> 15000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 2400 mg/m³ (Rat) 4 h
Amorphous silica (glass) 7631-86-9	= 7900 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.2 mg/L (Rat) 1 h
Aluminum Oxide 1344-28-1	> 5000 mg/kg (Rat)	-	-

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Carcinogenicity

Please see section 4 of this SDS for symptoms.

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

Skin corrosion/irritation	Causes severe skin burns.

Serious eye damage/eye	Causes severe eye damage.
irritation	

#### May cause cancer.

Chemical name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		Х
13463-67-7				
Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0	A2	Group 1	Known	Х
Amorphous silica (glass) 7631-86-9		Group 3	Known	Х

Legend

ACGIH (American Conference of Governmental Industrial Hygienists) A2 - Suspected Human Carcinogen IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans Group 3 IARC components are "not classifiable as human carcinogens" NTP (National Toxicology Program) Known - Known Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

### STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

### Numerical measures of toxicity

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

Oral LD50	
Dermal LD50	
Gas	

16,310.80 mg/kg 36,400.00 mg/kg 56,000.00 mg/L

# **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Toxic to aquatic life with long lasting effects.

### **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Calcined Kaolin	100: 72 h Desmodesmus	100: 96 h Oncorhynchus mykiss	1: 48 h Daphnia magna mg/L EC50
92704-41-1	subspicatus mg/L EC50	mg/L LC50 semi-static	
Citric Acid		1516: 96 h Lepomis macrochirus	120: 72 h Daphnia magna mg/L
77-92-9		mg/L LC50 static	EC50
Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0		5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50
Amorphous silica (glass)	440: 72 h Pseudokirchneriella	5000: 96 h Brachydanio rerio mg/L	7600: 48 h Ceriodaphnia dubia mg/L
7631-86-9	subcapitata mg/L EC50	LC50 static	EC50

### Persistence/Degradability

Not determined.

#### Bioaccumulation

There is no data for this product.

### <u>Mobility</u>

Chemical name	Partition coefficient
Citric Acid	-1.72
77-92-9	

### Other Adverse Effects

Not determined

# **13. DISPOSAL CONSIDERATIONS**

### Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.	
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.	
14. TRANSPORT INFORMATION		

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
DOT	Not regulated
IATA	Not regulated

#### IMDG Marine Pollutant

This material may meet the definition of a marine pollutant

# **15. REGULATORY INFORMATION**

### International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Silica, Quartz	Х	Х	Х	Х	Х	Х	Х	Х
Portland cement	Х	Х	Х		Х	Х		Х
Titanium dioxide	Х	Х	Х	Х	Х	Х	Х	Х
Calcined Kaolin	Х	Х	Х	Х	Х	Х	Х	
Citric Acid	Х	Х	Х	Х	Х	Х	Х	Х
Sodium carboxymethyl cellulose	Х	Х		Х	Х	Х	Х	Х
Amorphous silica	Х	Х		Х	Х	Х	Х	Х
Petroleum distillates, solvent dewaxed heavy paraffinic	Х	Х	Х		Х	Х	Х	Х
Aluminum Oxide	Х	Х	Х	Х	Х	Х	Х	Х
Amorphous silica (glass)	Х	Х	Х	Х	Х	Х	Х	Х

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

### **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).

# <u>SARA 313</u>

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

### 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)

### US State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Silica, Quartz - 14808-60-7	Carcinogen
Titanium dioxide - 13463-67-7	Carcinogen
Amorphous silica (glass) - 7631-86-9	Carcinogen

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Silica, Quartz 14808-60-7	Х	X	Х
Portland cement 65997-15-1	Х	X	Х
Titanium dioxide 13463-67-7	Х	X	Х
Amorphous silica 112926-00-8	Х	X	Х
Aluminum Oxide 1344-28-1	Х	X	Х
Amorphous silica (glass) 7631-86-9		X	Х

# **16. OTHER INFORMATION**

NFPA	Health Hazards Not determined Health Hazards	Flammability Not determined Flammability	Ins Not Phy	
Issue Date: Revision Date: Revision Note:	Not determined 17-Jan-201 21-Jan-201 New format	9	Not	
Revision Note.	new ionnai			

Instability Not determined Physical hazards Not determined Special Hazards Not determined Personal Protection Not determined

### <u>Disclaimer</u>

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 a 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.

End of Safety Data Sheet