

# **Gravel and Crushed Stone**

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Revision Date: 11/09/2020 Date of issue: 05/27/2015

Version: 2.0

# **SECTION 1: IDENTIFICATION**

<u>Product Identifier</u> <u>Product Form:</u> Mixture

**Product Name:** Crushed Stone

Synonyms: Aggregate, Flexible Base, Natural Limestone, Gravel, Construction Aggregate, Manufactured Sand, Screenings

**Intended Use of the Product** 

Use of the Substance/Mixture: Building materials, construction. Name, Address, and Telephone of the Responsible Party

Company:

**Titan Mid-Atlantic Aggregates LLC** 

25230 Sussex Drive

Waverly, VA 23890

#### **Titan Florida LLC**

455 Fairway Dr.

Deerfield Beach, FL 33441

Emergency Telephone Number CHEMTREC - 800-424-9300

# **SECTION 2: HAZARDS IDENTIFICATION**

# **Classification of the Substance or Mixture**

Classification (GHS-US)

STOT RE 1 H372

Full text of H-phrases: see section 16

Label Elements
GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

**Hazard Statements (GHS-US)** 

H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements (GHS-US) :

P260 - Do not breathe dust.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product. P314 - Get medical advice/attention if you feel unwell.

P501 - Dispose of contents/container in accordance with local, regional, national,

territorial, provincial, and international regulations.

## **Other Hazards**

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss.

# Unknown Acute Toxicity (GHS-US) Not available

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### Mixture

Name	Product Identifier	% (w/w)
Limestone	(CAS No) 1317-65-3	0 - 100
Quartz	(CAS No) 14808-60-7	>= 1

11/09/2020 EN (English US) 1/7

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Full text of H-phrases: see section 16

## **SECTION 4: FIRST AID MEASURES**

## **Description of 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).

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

difficulty persists.

Skin Contact: Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

**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.

Ingestion: Do not induce vomiting. Rinse mouth. Seek medical attention if any problems arise.

## Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes damage to organs through prolonged or repeated exposure.

Inhalation: Repeated exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis.

**Skin Contact:** Repeated or prolonged skin contact may cause irritation.

**Eye Contact:** Repeated or prolonged contact will cause mechanical irritation.

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

**Chronic Symptoms:** Causes damage to organs through prolonged or repeated exposure. Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss.

## Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

# **SECTION 5: FIRE-FIGHTING MEASURES**

# **Extinguishing Media**

**Suitable Extinguishing Media:** No fire hazard present for this material. **Unsuitable Extinguishing Media:** No fire hazard present for this material.

### **Special Hazards Arising From the Substance or Mixture**

Fire Hazard: Not flammable.

**Explosion Hazard:** Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

**Advice for Firefighters** 

**Precautionary Measures Fire:** No fire hazard present for this material. **Firefighting Instructions:** No fire hazard present for this material. **Protection During Firefighting:** No fire hazard present for this material.

Hazardous Combustion Products: Oxides of calcium.

Other Information: Refer to Section 9 for flammability properties.

**Reference to Other Sections** 

Refer to section 9 for flammability properties.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## Personal Precautions, Protective Equipment and Emergency Procedures

# 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:** Ventilate area. **Environmental Precautions** Not available

## Methods and Material for Containment and Cleaning Up

For Containment: Contain and collect as any solid.

11/09/2020 EN (English US) 2/7

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

## **Reference to Other Sections**

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

# **SECTION 7: HANDLING AND STORAGE**

# **Precautions for Safe Handling**

**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, Including Any Incompatibilities**

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:**. Keep/Store away from Incompatible materials. **Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

Specific End Use(s)

Building materials, construction.

# **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

Quartz (14808-60-7)		
Mexico	OEL TWA (mg/m³)	0.1 mg/m³ (respirable fraction)
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ (respirable fraction)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (STEL) (mg/m³)	250 mppcf/%SiO <sub>2</sub> +5, 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.05 mg/m³ (respirable dust)
USA IDLH	US IDLH (mg/m³)	50 mg/m³ (respirable dust)
Alberta	OEL TWA (mg/m³)	0.025 mg/m³ (respirable particulate)
British Columbia	OEL TWA (mg/m³)	0.025 mg/m³ (respirable)
Manitoba	OEL TWA (mg/m³)	0.025 mg/m³ (respirable fraction)
New Brunswick	OEL TWA (mg/m³)	0.1 mg/m³ (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m³)	0.025 mg/m³ (respirable fraction)
Nova Scotia	OEL TWA (mg/m³)	0.025 mg/m³ (respirable fraction)
Nunavut	OEL TWA (mg/m³)	0.1 mg/m³ (respirable mass)
		0.3 mg/m³ (total mass)
Northwest Territories	OEL TWA (mg/m³)	0.1 mg/m³ (respirable mass)
		0.3 mg/m³ (total mass)
Ontario	OEL TWA (mg/m³)	0.10 mg/m³ (designated substances regulation-respirable)
Prince Edward Island	OEL TWA (mg/m³)	0.025 mg/m³ (respirable fraction)
Québec	VEMP (mg/m³)	0.1 mg/m³ (respirable dust)
Saskatchewan	OEL TWA (mg/m³)	0.05 mg/m³ (respirable fraction)
Yukon	OEL TWA (mg/m³)	300 particle/mL
Limestone (1317-65-3)		
Mexico	OEL TWA (mg/m³)	10 mg/m³
Mexico	OEL STEL (mg/m³)	20 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust)
		5 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust)
		5 mg/m³ (respirable dust)
Alberta	OEL TWA (mg/m³)	10 mg/m <sup>3</sup>
British Columbia	OEL STEL (mg/m³)	20 mg/m³ (total dust)
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (total dust)
		3 mg/m³ (respirable fraction)
New Brunswick	OEL TWA (mg/m³)	10 mg/m³ (particulate matter containing no Asbestos and

11/09/2020 EN (English US) 3/7

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

		<1% Crystalline silica)
Nunavut	OEL TWA (mg/m³)	5 mg/m³ (respirable mass)
		10 mg/m³ (total mass)
Northwest Territories	OEL TWA (mg/m³)	5 mg/m³ (respirable mass)
		10 mg/m³ (total mass)
Québec	VEMP (mg/m³)	10 mg/m³ (Limestone, containing no Asbestos and <1%
		Crystalline silica-total dust)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³
Yukon	OEL STEL (mg/m³)	20 mg/m³
Yukon	OEL TWA (mg/m³)	30 mppcf
		10 mg/m³

### **Exposure Controls**

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Clean water should always be readily available for skin and (emergency) eye washing. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles or safety glasses with side shields. Gloves. Protective clothing. Dust formation: dust mask or Respirator (See Below).



**Specific Gravity** 









Materials for Protective Clothing: Wear suitable materials and fabrics.

**Hand Protection:** Wear protective gloves. **Eye Protection:** Goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

**Respiratory Protection:** Use NIOSH-approved dust mask or properly fitted, particulate filter respirator complying with an approved standard (NIOSH/MSHA), if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and assigned protection factor of the selected respirator.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on Basic Phy	ysical and Chemical Properties

Physical State : Solid

**Appearance** : Gray or brown, solid mixture

Odor : Faint

**Odor Threshold** Not available рΗ Not available **Evaporation Rate** Not available **Melting Point** Not available **Freezing Point** Not available **Boiling Point** Not available **Flash Point** Not available **Auto-ignition Temperature** Not available **Decomposition Temperature** Not available Flammability (solid, gas) Not available **Lower Flammable Limit** Not available **Upper Flammable Limit** Not available **Vapor Pressure** Not available Relative Vapor Density at 20 °C Not available **Relative Density** Not available

**Solubility** : Insoluble in water.

11/09/2020 EN (English US) 4/7

1.7 - 3.0

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Partition Coefficient: N-Octanol/Water: Not availableViscosity: Not available

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**

**Reactivity:** Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

Hazardous Decomposition Products: Quartz (silica) will dissolve in hydroflouric acid producing a corrosive gas, silicon tetrafluoride.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

# **Information on Toxicological Effects - Product**

Acute Toxicity: Not classified LD50 and LC50 Data: Not available Skin Corrosion/Irritation: Not classified Serious Eye Damage/Irritation: Not classified Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

**Teratogenicity:** Not classified **Carcinogenicity:** Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs through prolonged or repeated exposure.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Repeated exposure to respirable (airborne) crystalline silica dust will cause lung damage in the

form of silicosis.

**Symptoms/Injuries After Skin Contact:** Repeated or prolonged skin contact may cause irritation.

Symptoms/Injuries After Eye Contact: Repeated or prolonged contact will cause mechanical irritation.

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

**Chronic Symptoms:** Causes damage to organs through prolonged or repeated exposure. Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss.

# Information on Toxicological Effects - Ingredient(s)

#### LD50 and LC50 Data:

Quartz (14808-60-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
Quartz (14808-60-7)	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

## **SECTION 12: ECOLOGICAL INFORMATION**

Toxicity No additional information available

Persistence and Degradability Not available

**Bioaccumulative Potential** Not available

Mobility in Soil Not available

**Other Adverse Effects** 

Other Information: Avoid release to the environment.

11/09/2020 EN (English US) 5/7

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

## **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

# **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**

# **US Federal Regulations**

Crushed Stone		
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard	
Quartz (14808-60-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
	Delayed (chronic) health hazard	
Limestone (1317-65-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

# **US State Regulations**

Quartz (14808-60-7)	
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of
	California to cause cancer.

# Quartz (14808-60-7)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

## Limestone (1317-65-3)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

# **Canadian Regulations**

Crushed Stone	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Quartz (14808-60-7)	

Quartz (14808-60-7)			
Listed on the Canadian DSL (I	Listed on the Canadian DSL (Domestic Substances List)		
Listed on the Canadian IDL (II	Listed on the Canadian IDL (Ingredient Disclosure List)		
IDL Concentration 1 %	IDL Concentration 1 %		
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		
Limestone (1317-65-3)			
Listed on the Canadian NDSL (Non-Domestic Substances List)			
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria		

11/09/2020 EN (English US) 6/7

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

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, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 05/27/2015

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases:** 

STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
H372	Causes damage to organs through prolonged or repeated exposure

"The information provided herein is believed by seller to be accurate at the time of preparation, or prepared from sources believed to be reliable. Health and safety precautions in this data sheet may not be adequate for all individuals or situations. Users have the responsibility to comply with all laws and procedures applicable to the safe handling and use of the product, to determine the suitability of the product for its intended use, and to understand possible hazards associated with mixing this product with other materials. SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT, THE MERCHANTABILITY, OR FITNESS THEREOF FOR ANY PURPOSE, OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY SELLER".

11/09/2020 EN (English US) 7/7