

# ZeoFill®

# OdorZorb™

## Safety Data Sheet

### Section 1: Identification

<i>Product identified:</i>	Clinoptilolite – Natural Zeolite CAS No. 12173-10-3	
<i>Restrictions on use or sale:</i>	None	
<i>Company:</i>	ZeoFill® USA 12523 Limonite, Suite 440, Box 418 Mira Loma, California 91752	Phone: 888 926 - 4785 Website: <a href="http://www.zeofill.com">www.zeofill.com</a> Email: <a href="mailto:info@zeofill.com">info@zeofill.com</a>
<i>Emergency telephone number:</i>	888 926 - 4785 (ZeoFill® Office)	

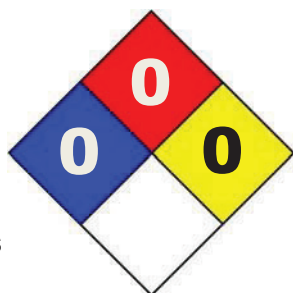
### Section 2: Hazard Identification

#### Regulation (EU) No 1272/2008

<i>GHS regulations:</i>	Not classified as hazardous.
<i>CLP regulation:</i>	Not classified as hazardous.
<i>Directive 67/548/EEC:</i>	Not applicable.
<i>Directive 1999/45/EC:</i>	Not applicable.
<i>Classification system:</i>	The classification is according to the latest editions of the EU-lists and extended by company literature data. The classification is in accordance with the latest editions of international substances lists and is supplemented by information from technical literature.

#### Label elements:

<i>Regulation (EC) No 1272/2008:</i>	Not regulated.
<i>Hazard pictogram:</i>	Not regulated.
<i>Signal word:</i>	Not regulated.
<i>Hazard determining components:</i>	None.
<i>Hazard statements:</i>	Not regulated.
<i>NFPA Hazard Rating (Scale 0 to 4)</i>	



Health (Blue)	0	No precaution necessary.
Flammability (Red)	0	Non combustible.
Reactivity (Yellow)	0	Not reactive when mixed with water.
Special (White)	None	

## HMIS Hazard Rating (Scale 0 to 4)

<b>HEALTH</b>	<b>0</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>REACTIVITY</b>	<b>0</b>

Health (Blue)	0	No significant health risk.
Flammability (Red)	0	Will not burn.
Reactivity (Yellow)	0	Will not react, polymerize, decompose, condense, or self react. Non-explosive.

<i>PBT and vPvB Assessment:</i>	PBT	Not applicable.
	vPvB	Not applicable.

**Section 3: Composition/Information on ingredients**

*Dangerous components:* None in reportable quantities.

<i>Chemical and common name</i>	<i>Wt. %</i>	<i>CAS Registry</i>	<i>EINECS</i>
Clinoptilolite (natural zeolite)	90-97	12173-10-3	215-283-8
Water	3-10	7732-18-5	231-791-2

**Section 4. First Aid Measures**

<i>General:</i>	No special measures required.
<i>After inhalation:</i>	Supply fresh air; consult doctor in case of complaints.
<i>After skin contact:</i>	Clean with water and soap. If skin irritation is experienced, consult a doctor.
<i>After eye contact:</i>	Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
<i>After swallowing:</i>	Rinse out mouth and then drink plenty of water. Do not induce vomiting. Treat symptomatically.

**Section 5. Fire-Fighting Measures**

<i>Suitable extinguishing media:</i>	Noncombustible.
<i>Extinguishing media:</i>	Compatible with all extinguishing media.
<i>Unusual hazards:</i>	None known.

**Section 6. Accidental Release Measures**

<i>Personal precautions:</i>	Avoid dust – use NIOSH approved respirator where dust occurs.
<i>Environmental precautions:</i>	No special measures required.
<i>Protection equipment:</i>	Safety glasses or chemical goggles.
<i>Spills cleanup:</i>	Pick up mechanically and place in a suitable container - avoid generating dust.

**Section 7. Handling and Storage**

<i>Safe handling:</i>	Avoid contact with eyes, skin, and clothing. Avoid generating and breathing dust.
<i>Safe storage:</i>	No special requirements.

**Section 8. Exposure Controls and Personal Protection**

<i>Limit values:</i>	Does not contain any relevant quantities of materials with critical values that have to
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	be monitored in the workplace.
<i>DNEL:</i>	No further information available.
<i>DNEC:</i>	No further information available.
<i>General protection:</i>	Use in a well ventilated workplace. Avoid generating and contacting dust.
<i>Eye protection:</i>	Wear safety glasses.



<i>Respiratory protection:</i>	Not necessary in well ventilated area.
<i>Skin protection:</i>	Wear protective gloves against mechanical hazards according to NIOSH or EN 388.
<i>Body protection:</i>	Not required under normal conditions of use.

### Sections 9. Physical and Chemical Properties

<i>Appearance:</i>	Light tan solid (powders and granules).
<i>Odor:</i>	Odorless.
<i>Odor threshold:</i>	Not determined.
<i>pH values:</i>	Not applicable.
<i>Change in condition:</i>	Melting point/melting range: Not determined. Boiling point/boiling range: Not determined.
<i>Flash point:</i>	Not applicable. Will not burn.
<i>Evaporation rate:</i>	Not applicable; does not evaporate.
<i>Flammability (solid, gas):</i>	Not flammable. Upper/lower limits: Not applicable.
<i>Danger of explosion:</i>	Does not present and explosive hazard. Upper/lower limits: Not applicable.
<i>Vapor density:</i>	Does not apply. Does not evaporate.
<i>Relative density:</i>	Not determined
<i>Solubility:</i>	Water Insoluble. Alcohol Insoluble.
<i>Partition coefficient:</i>	Not applicable (insoluble in n-octanol and water).
<i>Auto ignition temperature:</i>	Will not auto ignite.
<i>Decomposition temperature:</i>	Not determined.
<i>Viscosity:</i>	Not applicable - solid.

### Section 10. Stability and Reactivity

<i>Chemical stability</i>	Stable if used as intended.
<i>Thermal stability:</i>	Stable if used as intended.
<i>Hazardous reaction:</i>	Possibility of hazardous reaction with strong acids and strong alkali.
<i>Conditions to avoid</i>	No further information available.
<i>Materials to avoid</i>	Strong acids and strong bases.
<i>Hazardous decomposition:</i>	No further information available.

### Section 11. Toxicological Information

<i>Toxicological:</i>	When used and handled according to instructions, the product does not have any
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	harmful effects based upon our experience.
<i>Sensitization:</i>	No sensitizing effects known.
<i>General EU Guidelines:</i>	Not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
<i>NTP</i>	Not listed in the National Toxicological Program <i>Report on Carcinogens</i> , 2011.
<i>IARC</i>	International Agency for Research on Cancer <i>MONOGRAPHS VOLUME 68</i> : clinoptilolite cannot be evaluated as to the carcinogenicity to humans (Group 3).

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## Section 12. Ecological Information

<i>Toxicity:</i>	No known toxicity to plants or animals.
<i>Environmental fate</i>	Inorganic material does not decompose and is not eliminated from environment by means of biological cleaning processes.
<i>Bioaccumulation:</i>	Does not bioaccumulate in animal or plants.
<i>Mobility in soil:</i>	Not mobile.

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## Section 13. Disposal Consideration

<i>Classification:</i>	Not a RCRA Hazardous Waste.
<i>Disposal method:</i>	Dispose in accordance with federal, state (provincial), and local regulations.

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## Section 14. Transportation Information

<i>UN Number:</i>	DOT, ADR, ADN, IMDG, IATA:	Not Regulated.
<i>UN Proper Shipping Name:</i>	DOT, ADR, ADN, IMDG, IATA:	Not Regulated.
<i>Transport Hazard Class:</i>	DOT, ADR, ADN, IMDG, IATA:	Not Regulated.
<i>Packing Group:</i>	DOT, ADR, IMDG, IATA:	Not Regulated.
<i>Marine pollutant:</i>	No.	
<i>Proper shipping name:</i>	Non-Hazardous for Transport.	
<i>Hazard Symbol:</i>	None required.	
<i>Hazard Id Number (HIM):</i>	None.	

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## 15. Regulatory Information

### *United States*

<i>SARA 355:</i>	Extremely hazardous substances:	None of the ingredients listed.
<i>SARA 313:</i>	Specific toxic chemical listings:	None of the ingredients listed.
<i>TSCA:</i>	All of the ingredients are listed.	
<i>California Prop 65:</i>	Known to cause cancer:	None of the ingredients listed.
	Known to cause reproductive toxicity:	None of the ingredients listed.
	Known to cause developmental toxicity:	None of the ingredients listed.
<i>Carcinogen categories:</i>	EPA	None of the ingredients listed.
	IARC	None of the ingredients listed.
	TLV by ACGHI	None of the ingredients listed.
	NIOSH-Ca	None of the ingredients listed.
	Ingredients Disclosure List (limit 0.1%)	None of the ingredients listed.
	Ingredients Disclosure List (limit 1%)	None of the ingredients listed.
<i>REACH, Article 57:</i>	Substances of very high concern (SVHC)	None of the ingredients listed.

**Canada: CPR:** (Canadian Controlled Products Regulations): This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. WHMIS Classification: Not Controlled.

**DSL / NDSL:** (Canadian Domestic Substances List / Non-Domestic Substance List): Components of this product identified by CAS number are not listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notifications (NSN) regulations.

**Chemical Safety Assessment:** A Chemical Safety Assessment has not been carried out.

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## 16. Other information

### Safety Data Sheet:

Approved by: Scott Perez  
Date: February 08, 2022

### Abbreviations:


ACGIH	American Conference of Governmental Industrial Hygienists
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Classification, Labeling, and Packaging Regulation (EC) No 1272/2008
DNEL	Derived No-Effect Level (REACH)
DOT	US Department of Transportation
DSL	Domestic Substance List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EPA	Environmental Protection Agency
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
HMIS	Hazardous Materials Identification System (USA)
IARC	International Agency of Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
NIOSH	National Institute of Occupational Safety and Health
NFPA	National Fire Protection Association (USA)
NTP	National Toxicological Program
PBT	Persistent, Bioaccumulative, and Toxic
PNEC	Predicted No-Effect Concentration (REACH)
REACH	Registration, Evaluation, Authorization, and Restriction of Chemicals; (EC) 1907/2008
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendment and Reauthorization Act
SVHC	Substances of very high concern
TSCA	Toxic Substances Control Act
TLV	Threshold Limit Value
vPvB	Very persistent and very bioaccumulative
WHMIS	Workplace Hazardous Materials Information System (Canada)

The information on this Safety Data Sheet is believed to be accurate and is the best information available to KMI Inc. This document is intended only as a guide to the appropriate precautions for handling. KMI Inc. makes no warranty of merchantability or any other warrant, expressed or implied with respect to the information or the product to which this Safety Sheet relates. Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.

**SAFETY DATA SHEET – NeutraFill Coated Infill (All Grades) XIF-002**

<b>Product Name:</b> NeutraFill Coated Infill (All Grades) XIF-002
<b>Product Use:</b> Turf Infill. For professional use only.
<b>Supplier: ZeoFill Inc.</b> 12523 Limonite Ave, Suite 440, Box 418 Mira Loma, CA 91752 www.zeofill.com
<b>For Non-Emergency information and General Inquiries:</b> 888-926-4785
<b>Emergency Phone:</b> 1-800-424-9300 (CHEMTREC)

**2. HAZARDS IDENTIFICATION**

Classification of the Substance or Mixture	
<b>OSHA Classification (GHS-US)</b>	Carcinogen 1A, STOT SE 3, STOT RE 1
<b>WHMIS Classification</b>	Carcinogen 1A, STOT SE 3, STOT RE 1
<b>Hazard Pictograms (GHS-US)</b>	
<b>Signal Word (GHS-US)</b>	Danger
<b>Hazard Statements (GHS-US)</b>	May cause respiratory irritation by abrasion May cause cancer (Inhalation) Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (Inhalation)
<b>Precautionary Statements (GHS-US)</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear respiratory protection. If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If exposed or concerned: Get medical advice/attention. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.
<b>Other Hazards Not Contributing to the Classification:</b>	Dust may cause irritation by abrasion to eyes, nose, throat, lungs. Exposure may aggravate pre-existing conditions and/or increase the risk of certain disease. There is some evidence that exposure to respirable crystalline silica (quartz) is associated with increased incidence of kidney diseases, including end stage renal disease.
<b>Unknown Acute Toxicity (GHS-US)</b>	0%

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	Product identifier (CAS)	% (w/w)	Classification (GHS-US)
Silica Sand (Quartz)	14808-60-7	98.0-99.5%	Carc. 1A, STOT SE 3, STOT RE 1
Polymer Resin		0.5-2.0%	Not a hazardous substance and bound to silica

## 4. FIRST AID MEASURES

<u>Description of First Aid Measures</u>	
<b>General:</b>	Immediately flush eyes with running water for at least 15 minutes. Seek medical attention for irritation.
<b>Inhalation:</b>	Wash with soap and water.
<b>Skin Contact:</b>	Move to fresh air. Seek medical attention if irritation develops.
<b>Eye Contact:</b>	Rinse mouth with water. Get medical attention if discomfort persists.
<b>Ingestion:</b>	Treat symptomatically.

<u>Most Important Symptoms and Effects Both Acute and Delayed</u>	
<b>Symptoms/Injuries:</b>	Irritation by abrasion of respiratory tract.
<b>Symptoms/Injuries After Inhalation:</b>	Chronic inhalation of respirable quartz (crystalline silica) may cause silicosis, a fibrosis or scarring of the lungs. Silicosis may be progressive and may lead to disability and death. Adverse health effects such as lung disease, silicosis, cancer, autoimmune disease, tuberculosis and nephrotoxicity can occur with exposure. There are generally no symptoms or signs of exposure to quartz. Chronic silicosis often has no symptoms. Acute silicosis can occur with exposures to very high concentrations of respirable quartz over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss. Acute silicosis is fatal.
<b>Symptoms/Injuries After Skin Contact:</b>	Prolonged contact with dust may cause irritation by abrasion.
<b>Symptoms/Injuries After Eye Contact:</b>	Prolonged contact will cause irritation by abrasion and may result in corneal injury.
<b>Symptoms/Injuries After Ingestion:</b>	None expected under normal conditions of use.
<b>Chronic Symptoms:</b>	Prolonged and frequent exposure through inhalation may cause cancer or damage lungs.
<b>Indication of Any Immediate Medical Attention and Special Treatment Needed</b>	If you feel unwell, seek medical advice.

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## 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Agents</b>	Use extinguishing media appropriate for surrounding fire.
<b>Unsuitable Extinguishing Agents</b>	None known
<b>Products of Combustion</b>	None anticipated

<b>Advice for Firefighters</b>	
<b>Precautionary Measures Fire</b>	Exercise caution when fighting any fire
<b>Firefighting Instructions</b>	Fight fire from safe distance and protected location.
<b>Hazardous Combustion Products</b>	May release toxic fumes, including Formaldehyde, Silicon Oxides, and Carbon Oxides
<b>Protection of Firefighters</b>	Fire fighters should wear “bunker gear” and Self-Contained Breathing Apparatus (SCBA).

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Do not breathe dust. Avoid generating dust.
<b>Environmental Precautions</b>	Not available

<b>For Non-Emergency Personnel</b>	
<b>Protective Equipment:</b>	Use appropriate personal protection equipment (PPE).
<b>Method of Cleanup</b>	Shovel into containers for reuse. Do not use product contaminated with dirt, water or other materials. Contaminated materials should be disposed of in a suitable facility.

<b>Methods and Material for Containment and Cleaning Up</b>	
<b>For Containment:</b>	Use appropriate personal protection equipment (PPE).
<b>Methods for Cleaning Up:</b>	Avoid generation of dust during clean-up of spills. Use only non-sparking tools.

<b>Reference to Other Sections</b>	See Section 8, Exposure Controls and Personal Protection.
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## 7. HANDLING AND STORAGE

<b>Additional Hazards When Processed:</b>	Good housekeeping is needed during storage, transfer, handling, and use of this material to avoid excessive dust accumulation.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety procedures. Use only outdoors or in a well-ventilated area. Do not breathe dust.
<b>Storage Conditions</b>	Store in a well-ventilated place.
<b>Incompatible Materials</b>	Strong bases. Strong acids. Strong oxidizers.
<b>Specific End Use(s)</b>	Proppant. For professional use only.




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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Quartz (14808-60-7) (Respirable dust only)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (STEL) (mg/m <sup>3</sup> )	250 mppcf/%SiO <sub>2</sub> +5, 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Alberta	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>
British Columbia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Yukon	OEL TWA (mg/m <sup>3</sup> )	300 particle/mL
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>

<b>Particles Not Otherwise Specified</b>		
USA OSHA	OSHA PEL (TWA)(mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (total dust)
USA OSHA	OSHA PEL (TWA)(mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (respirable fraction)
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust)
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable fraction)

<b>Appropriate Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal Protective Equipment</b>	 Insufficient ventilation: wear respiratory protection.
<b>Materials for Protective Clothing</b>	Specific materials not required.
<b>Hand Protection</b>	Impermeable protective gloves.
<b>Eye Protection</b>	In case of dust production: protective goggles.
<b>Skin and Body Protection</b>	Wear suitable working clothes.
<b>Respiratory Protection</b>	Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of dust are expected to exceed exposure limits.
<b>Other Information</b>	When using, do not eat, drink or smoke

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Solid	<b>Flash point</b>	Not flammable
<b>Appearance</b>	Grayish/Black, Green or Red Granular Sand	<b>Upper/lower Flammable Limits</b>	Not available
<b>Odor</b>	Odorless	<b>Auto-ignition Temperature</b>	Not available

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<b>Odor Threshold</b>	Not available	<b>Decomposition temperature</b>	Not available
<b>pH</b>	Not applicable	<b>Relative Evaporation Rate (butyl acetate=1)</b>	Not available
<b>Boiling Point</b>	2230 C	<b>Vapor Pressure</b>	Negligible
<b>Melting/Freezing Point</b>	2930 °F (1610 °C)	<b>Relative Vapor Density at 20 °C</b>	Not available
<b>Solubility</b>	Insoluble in water	<b>Density</b>	2.5 (vs water)
<b>Viscosity</b>	Not available	<b>Octanol/Water Partition Coefficient</b>	Not available
<b>Flammability (solid, gas)</b>	Not available	<b>Relative Density/Specific Gravity</b>	Not available
<b>Explosion Data – Sensitivity to Mechanical Impact</b>	Not expected to present an explosion hazard due to mechanical impact.	<b>Explosion Data – Sensitivity to Static Discharge</b>	Not expected to present an explosion hazard due to static discharge.

Note: The physical data presented above are typical values and should not be construed as a specification.

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	Product is stable.
<b>Chemical Stability:</b>	Product is not explosive.
<b>Conditions to Avoid:</b>	Sparks, heat, open flame and other sources of ignition. Avoid creating or spreading dust.
<b>Possibility of Hazardous Reactions:</b>	Hazardous polymerization will not occur.
<b>Incompatible Materials:</b>	Strong acids, strong bases, strong oxidizers.
<b>Hazardous Decomposition Products:</b>	Quartz (silica) will dissolve in hydrofluoric acid producing a corrosive gas, silicon tetrafluoride.

## 11. TOXICOLOGICAL INFORMATION

No investigations were carried out with the preparation itself. The properties of this product which are hazardous to health have been calculated as per regulation (EC) No. 1272/2008. See Section 2 "Hazards Identification.	
<b>Acute Toxicity</b>	Not classified
<b>LD50 and LC50 Data:</b>	Not available but considered systemically non-toxic.
<b>Skin Corrosion/Irritation</b>	Not classified (pH: 6.5 - 7.5) in solution
<b>Serious Eye Damage/Irritation</b>	Not classified (pH: 6.5 - 7.5) in solution
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified

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<b>Teratogenicity</b>	Not available
<b>Carcinogenicity</b>	May cause cancer (Inhalation).
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (Inhalation).
<b>Reproductive Toxicity</b>	Not classified
<b>Specific Target Organ Toxicity (Single Exposure)</b>	May cause respiratory irritation by abrasion.
<b>Aspiration Hazard</b>	Not classified
<b>Symptoms/Injuries After Inhalation</b>	May cause respiratory irritation. 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.
<b>Symptoms/Injuries After Skin Contact</b>	Prolonged contact with large amounts of dust may cause irritation by abrasion.
<b>Symptoms/Injuries After Eye Contact</b>	Repeated or prolonged contact will cause irritation by abrasion. Prolonged contact may result in corneal injury.
<b>Symptoms/Injuries After Ingestion</b>	None expected under normal conditions of use.
<b>Chronic Symptoms</b>	Prolonged and frequent exposure through inhalation may cause cancer. Repeated or prolonged inhalation may damage lungs.

<b>Information on Toxicological Effects - Ingredient(s)</b>	
<b>LD50 and LC50 Data:</b>	
<b>Quartz (14808-60-67)</b>	
<b>Oral Rat</b>	> 5000mg/kg
<b>Quartz (14808-60-7)</b>	
<b>IARC Group</b>	1
<b>National Toxicity Program(NTP) Status</b>	Known Human Carcinogens.

## 12. ECOLOGICAL INFORMATION

<b>Toxicity</b>	Not classified
<b>Persistence and Degradability</b>	Not available
<b>Bio-accumulative Potential</b>	Not available
<b>Other Adverse Effects</b>	Not available

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## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Recommendations:</b>	Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.
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## 14. TRANSPORT INFORMATION

<b>In Accordance with DOT</b>	Not regulated for transport
<b>In Accordance with IMDG</b>	Not regulated for transport
<b>In Accordance with IATA</b>	Not regulated for transport
<b>In Accordance with TDG</b>	Not regulated for transport

## 15. REGULATORY INFORMATION

### US Federal Regulations

<b>Quartz (14808-60-7)</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Carcinogen 1A. STOT SE -3. STOT RE-1
<b>TSCA (Toxic Substances Control Act)</b>	Listed on the United States TSCA inventory

### US State Regulations

<b>Quartz (14808-60-7)</b>	
U.S. - California - Proposition 65 – Carcinogens - Listed	
RTK - U.S. - Massachusetts - Right To Know List	
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List	
RTK - U.S. - Pennsylvania - RTK (Right to Know) List	

### Canadian Regulations

<b>WHMIS Classification 2015</b>	Carcinogen 1A. STOT SE -3. STOT RE-1
<b>Quartz (14808-60-7)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
Listed on the Canadian Ingredient Disclosure List	

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.

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## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date	23 Mar 2021
Version	1.2
Former Version Date	15 Mar 2021
Revision Changes	Item number changed from XIF-001 to XIF-002

National Fire Protection Association (NFPA):		
NFPA Health Hazard	1	Exposure could cause irritation by abrasion but only minor residual injury even if no treatment is given.
NFPA Flammability	0	Materials that will not burn.
NFPA Reactivity	0	Normally stable, even under fire exposure conditions

Hazardous Material Identification System (HMIS):		
Health	1	Slight Hazard - Irritation by abrasion or minor reversible injury possible
Flammability	0	Minimal Hazard
Physical	0	Minimal Hazard
PPE	E	
Ratings are based on 0-4 rating scale, with 0 representing minimal hazard or risk, and 4 representing severe hazard or risk.		
E: Safety goggles, gloves and a particulate respirator		

**DISCLAIMER:** The information contained herein is based on data considered accurate and is offered at no charge. No warranty is expressed or implied regarding the accuracy of this data. Liability is expressly disclaimed for loss or injury arising out of use of this information or the use of any materials designated.

## Safety Data Sheet

PE-51

### Section 1. Identification

GHS product identifier	PE-51
Other means of identification	Not available
Product type	Liquid
<b>Relevant identified uses of the substance or mixture and uses advised against</b>	Not applicable
Suppliers details	Zeofill Inc. 4401 Etiwanda Acenue, Unit C Jurupa Valley, CA 91752 (888) 926-4785
Product Code:	
Validation Date:	2/20/2018
Print Date:	2/20/2018
In case of emergency:	(888) 926-4785

### Section 2. Hazards identification

<u>OSHA/HCS status:</u>	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	Not Classified
<b>GHS label elements</b>	
Hazard Pictograms	None
Signal Word:	No signal Word
Hazard Statement:	No known significant effects or critical hazards.
<b>Precautionary statements</b>	
Prevention	Not Applicable
Response	Not Applicable
Storage	Not Applicable
Disposal	Not Applicable
Hazards not otherwise classified	None Known

### Section 3. Composition/information on ingredients

Substance/mixture	Mixture
Other means of identification	Not Applicable
CAS number/other identifiers	
CAS number	Not Applicable
Product code	

Ingredient name	CAS number	%
Water	7732-18-5	5-80
Mutant Bacteria Strains	NA	1-10
Nonylphenol Ethoxylate	9016-45-9	1-10

Any concentration shown as a range is to protect confidentiality or is due to batch variation

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur
Ingestion	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur

#### Indication of immediate medical attention and special treatment needed if necessary

Notes to physician No specific treatment. Treat systematically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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

##### Potential acute health effects

Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards

#### Over-exposure signs/symptoms

Eye contact No specific data

## Section 4. First aid measures

Inhalation	No specific data.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards
<b><u>Indication of immediate medical attention and special treatment needed, if necessary</u></b>	
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours
Specific Treatments	No specific treatment
Protection of first aiders	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	Decomposition products may include the following materials: Carbon dioxide, carbon monoxide, nitrogen oxides
Special protective action for fire fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breath vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel"
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<u>Methods and materials for containment and cleaning up</u>	
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water soluble. Alternatively, or if water insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal company.
Large spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbant material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.



## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been open must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

None

#### Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## Section 8. Exposure controls/personal protection

### Individual protection measures

#### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the work period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: splash goggles

#### Skin protection

##### Hand Protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time); butyl rubber

#### Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard 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 the safe working limits of the selected respirator.

#### Personal protective equipment (Pictograms)

## Section 9. Physical and chemical properties

### Appearance

Physical state	Liquid
Color	Green
Odor	Fresh Cut Grass
Odor Threshold	Not available
pH	7-9.5
Melting point	Not available
Boiling point	Not available
Flash point	Closed cup:>150 degrees C. (>302F) Product does not sustain combustion
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower and upper explosive (flammable) limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1
Solubility	Easily soluble in the following materials: cold water and hot water
Partition coefficient: n-octane/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

## Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	This product is stable
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No specific data
Incompatible materials	Reactive or incompatible with the following materials: acids
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Nonylphenol Ethoxylate	LD50 Oral	Rat	1378 mg/kg	---
	LD50 Dermal	Rabbit	2 g/kg	---

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
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## Section 11. Toxicological information

### Sensitization

Not available

### Mutagenicity

Not available

### Carcinogenicity

Not available

### Classification

### Reproductive toxicity

Not available

### Tertogenicity

Not available

### Specific target organ toxicity (single exposure)

Not available

### Specific target organ toxicity (repeated exposure)

Not available

### Aspiration hazard

Not available

Information on the likely routes of exposure      Routes of entry anticipated: Oral, Dermal, Inhalation

### Potential acute health effects

Eye contact      No known significant effects or critical hazards

Inhalation      No known significant effects or critical hazards

Skin contact      No known significant effects or critical hazards

Ingestion      No known significant effects or critical hazards

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

Eye contact      Not available.

Inhalation      Not available.

Skin contact      Not available.

Ingestion      Not available.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate effects      Not available.

Potential delayed effects      Not available.

#### Long term exposure

Potential immediate effects      Not available.

Potential delayed effects      Not available.

#### Potential chronic health effects

General      No known significant effects or critical hazards

Carcinogenicity      No known significant effects or critical hazards

Mutagenicity      No known significant effects or critical hazards

Teratogenicity      No known significant effects or critical hazards

Developmental effects      No known significant effects or critical hazards

Fertility effects      No known significant effects or critical hazards

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	2924.1 mg/kg

## Section 12. Ecological information

### Toxicity

None

### Persistence and degradability

Not available

### Bioaccumulative potential

Product/ingredient name	LogP	BCF	Potential

### Mobility in soil

Soil/water partition coefficient (Koc) Not available

Other adverse effects No known significant effects or critical hazards

## Section 13. Disposal considerations

### Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

## Section 14. Transportation information

	<u>DOT Classification</u>
<u>UN number</u>	Not regulated
<u>UN proper shipping name</u>	---
<u>Transport hazard class(es)</u>	---
<u>Packing group</u>	---
<u>Environmental hazards</u>	no
<u>Additional information</u>	---

### Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Section 15. Regulatory information**

U.S. Federal regulations Not listed  
 Clean Air Act Section 112 (b) Not listed  
 Hazardous Air Pollutants (HAPs)  
 Clean Air Act Section 602 Class I Substances Not listed  
 Clean Air Act Section 602 Class II Substances Not listed  
 DEA List I Chemicals (Precursor Chemicals) Not listed  
 DEA List II Chemicals (Precursor Chemicals) Not listed  
SARA 302/304  
 Composition/information on ingredients No products found  
 SARA 304 RQ Not applicable  
SARA 311/312  
 Classification No products found

Composition/information on ingredients

Name	%	Fire Hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
None						

SARA 313

	Product name	CAS number	%
None			

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Pennsylvania None