Safety Data Sheet

Section 01 - Identification

Product Identifier	1175 Road Repair-Fine, 1170 Road Repair-Regular
Other Means of Identification	None
Product Use and Restrictions on Use	Repairing potholes, cracks, sucken areas, breaks in concrete or asphalt.
Initial Supplier Identifier	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
Prepared By	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
24-Hour Emergency Phone	Phone: 1 (306) 664 – 2522

Section 02 - Hazard Identification

GHS-Classification

STOT-Repeated Exposure	Category 1
Carcinogenicity	Category 1A

Physical Hazards

No known physical hazards.

Danger

Hazards Statements

H372 – Causes damage to the lung through prolonged or repeated inhalation.
H350 – May cause cancer.

Pictograms

Precautionary Statements

P405 – Store locked up.
P201 – Obtain special instructions before use.
P202 – Do not handle until all safety precautions have been read and understood.
P280 – Wear protective gloves, protective clothing, eye protection, and face protection.
P308 + P313 – IF exposed or concerned: Get medical advice/attention.
P260 – Do not breathe dust.
P264 – Wash hands thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.
P501 – Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Silicon Dioxide	14808-60-7	50-55%	
Petroleum Asphalt	8052-42-4	1-5%	

Section 04 - First Aid Measures

Inhalation
This chemical is a carcinogen and a chronic toxicity hazard. Remove victim to fresh air. Seek immediate medical attention.

Skin Contact / Absorption
Remove contaminated clothing. Wash affected area with gently flowing water and non-abrasive soap. Seek medical attention if irritation occurs or persists.

Eye Contact
DO NOT allow victim to rub eye(s). Let the eye(s) water naturally for a few minutes. If particle/dust does not dislodge flush with gently flowing water for at least 30 minutes or until particle/dust is removed while holding eyelid(s) open. If irritation persists, seek immediate medical attention. DO NOT attempt to manually remove anything stuck to the eye(s).

Ingestion
Dilute by giving water or milk to drink if the victim is conscious. Do not induce vomiting. If vomiting occurs naturally, keep the below the hips to prevent lung aspiration. If irritation or discomfort occurs, obtain medical advice.

Additional Information
NOTE: This product contains an ingredient that may cause cancer. Good personal hygiene is essential. Always wash your hands after handling crystalline silica, prior to handling food and/or drinkable liquids.

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media
Water fog, foam or CO_2 for surrounding fire.

Unsuitable Extinguishing Media
Not Available

Specific Hazards Arising From the Chemical
Carbon monoxide, carbon dioxide and incomplete combustion products.

Special Protective Equipment and Precautions for Fire-Fighters
Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Further Information
Not Available

Section 06 - Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures
Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.

Environmental Precautions
Avoid release of product into waterways and/or sewers.

Methods and Materials for Containment and Cleaning Up
Do not dry-sweep crystalline silica. Whenever possible, wet down with a water spray to minimize the amount of dust or use a vacuum equipped with HEPA filters.
Shovel into clean, labelled containers and cover. Flush area with water.

Section 07 - Handling and Storage

Precautions for Safe Handling	This material is a VERY TOXIC solid. Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.
Conditions for Safe Storage	Keep container tightly closed when not in use. Keep quantity stored as small as possible. Product should be stored at temperatures above freezing.
Incompatibilities	Strong oxidizing agents, magnesium, maganese trifluoride, xenon hexafluoride, sodium, lithium, and hydrofluoric acid.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Silicon dioxide	ACGIH	TLV-TWA	0.025mg/m^3
	OSHA	PEL-TWA	0.1mg/m^3
Petroleum asphalt	ACGIH	TLV-TWA	0.5mg/m^3

Engineering Control(s)

Ventilation Requirements	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems.
Other	Emergency shower and eyewash should be in close proximity.

Protective Equipment

Eyes/Face	Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.
Hand Protection	Impervious gloves of chemically resistant material (rubber or PVC) should be worn. Wash contaminated clothing and dry thoroughly before reuse.
Skin and Body Protection	Body suits, aprons, and/or coveralls of chemical resistant material should be worn. Wash contaminated clothing and dry thoroughly before reuse.
Respiratory Protection	Utilize respiratory equipment to prevent exposure to product vapors/mists.
Thermal Hazards	Not Available.

Section 09 - Physical and Chemical Properties

Appearance

Physical State	Semi-solid
Colour	Black
Odour	Mild odour
Odour Threshold	Not Available

Property	
pH	Not Available
Melting Point/Freezing Point	Not Available
Initial Boiling Point and Boiling Range	Not Available
Flash Point	Not Available
Evaporation Rate	Not Available
Flammability	Flammable if near ignition source
Upper Flammable Limit	Not Available
Lower Flammable Limit	Not Available
Vapour Pressure (mm Hg, 20°C)	Not Available
Vapour Density (Air=1)	>1
Relative Density	Not Available
Solubility(ies)	Not Available
Partition Coefficient: n-octanol/water	Not Available
Auto-ignition Temperature	Not Available
Decomposition Temperature	Not Available
Viscosity	Not Available
Explosive Properties	None known
Specific Gravity (Water=1)	Not Available
% Volatiles by Volume	1
Formula	Not Available
Molecular Weight	Not Available

Section 10 - Stability and Reactivity

Reactivity	Alpha-quartz is stable below 575°C where it transforms to beta-quartz, which is stable between 575°C and 870°C. Above 870°C, quartz transforms to tridymite.
Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	Not Available
Conditions to Avoid	Generation of dust.
Incompatible Materials	Strong oxidizing agents, magnesium, maganese trifluoride, xenon hexafluoride, sodium, lithium, and hydrofluoric acid.

Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and incomplete combustion products.

Section 11 - Toxicological Information

Acute Toxicity Estimate

Component	Oral LD_{50}	Dermal LD_{50}	Inhalation LC_{50}
Instant Road Repair – Fine and Regular	900 mg/kg	18,000 mg/kg	Not Available

This product has been classified in accordance with the Hazardous Products Regulations using ATE formula documented in the GHS standard.

Chronic Toxicity – Carcinogenicity

Component	IARC
Silicon dioxide	Group 1: Carcinogenic to humans.

Skin Corrosion/Irritation	Exposure may cause mild skin irritation. Prolonged contact may cause redness, burning, drying and cracking of the skin.
Ingestion	May cause irritation of the digestive tract.
Inhalation	Exposure may cause irritation of the nose, throat and respiratory tract. Respiratory diseases may develop such as silicosis, penumoconiosis and pulmonary fibrosis from inhalation.
Serious Eye Damage/Irritation	Direct contact may cause mild to moderate irritation including tearing, redness, pain and swelling. Product mists may also cause irritation.
Respiratory or Skin Sensitization	Not Available
Germ Cell Mutagenicity	Not Available
Reproductive Toxicity	Not Available
STOT-Single Exposure	High concentrations may cause coughing and mild, temporary irritation following short-term exposure.
STOT-Repeated Exposure	Prolonged or repeated exposure to fine airborne dust is known to be harmful to the respiratory system and may cause lung injury. Symptoms of gastrointestinal irritation include sore throat, abdominal pain, nausea, vomiting and diarrhea. Transient central nervous system depression may be evidenced by headache, dizziness, nausea and symptoms of intoxication.
Aspiration Hazard	Not Available.
Synergistic Materials	There is disagreement about whether tobacco smoke increases the severity of the effect of crystalline silica on respiratory impairment. Simultaneous exposure to known carcinogens, for example, benzo(a)pyrene, can increase the carcinogenicity of crystalline silica

Section 12 – Ecological Information

Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Instant Road Repair – Fine and Regular	Not Available	Not Available	Not Available

Biodegradability	Not Available
Bioaccumulation	Not Available
Mobility	Not Available
Other Adverse Effects	Not Available

Section 13 – Disposal Considerations

Waste From Residues/Unused Products	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
Contaminated Packaging	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 – Transport Information

UN Number	Not Regulated
UN Proper Shipping Name	Not Regulated
Transport Hazard Class(es)	Not Regulated
Packaging Group	Not Regulated
Environmental Hazards	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.
Special Precautions	Not Available
Transport in Bulk	Not Available

TDG

Other	Secure containers (full and/or empty) with suitable hold down devises during shipment and ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 – Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 – Other Information

Preparation Date	September 9, 2015

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, 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 the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

References:

1) CHEMINFO
2) eChemPortal
3) TOXNET
4) Transportation of Dangerous Goods Canada
5) HSDB
6) ECHA

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