

Green Grit

SECTION 1. IDENTIFICATION

Product Identifier	Green Grit
Other Means of Identification	Not applicable
Other Identification	Recycled glass
Recommended Use	Abrasive for blasting, filtration media and other aggregate uses.
Manufacturer/Supplier Identifier	Opta Waterdown Inc, 407 Parkside Drive, Waterdown, Ontario, L0R2H0, (905) 689-7361, www.optagroupllc.com
Emergency Phone No.	CHEMTREC (Canada & USA), 1-800-424-9300, 24 hours CHEMTREC, (outside North America), 1-703-527-3887, 24 hours
SDS No.	1464

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

Label Elements

GHS Classification: Not classified as a hazardous material by the criteria of the OSHA Hazard Communication.

Other Hazards

Contains no free silica; all components are amorphous / non-crystalline.

Hazards summary: Dust may irritate eyes, skin, respiratory tract, mucous membranes. Spilled material is slippery.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Glass	65997-17-3	>99	SiO ₂	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Immediately remove to fresh air. Get medical attention if irritation persists or if breathing is difficult.

Skin Contact

The product is not hazardous by skin contact, but removal of particles and cleaning the skin after use is advisable.

Eye Contact

Immediately flush eyes with large amounts of clean water for at least 15 minutes while holding the eyelids open. Remove contact lenses. Occasionally lift the eyelids to ensure thorough rinsing. Beyond flushing, do not attempt to remove material from eyes. Get medical attention if irritation persists or later develops.

Ingestion

If swallowed, rinse mouth and drink plenty of water. If symptoms occur, consult medical staff immediately.

Immediate Medical Attention and Special Treatment

Target Organs

Respiratory system, skin.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Specific Hazards Arising from the Product

None.

Special Protective Equipment and Precautions for Fire-fighters

Wear self-contained breathing apparatus with a full face mask. Wear gloves and appropriate protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Persons involved in cleanup processes should first observe precautions (as appropriate) identified in Section 8 of this SDS. Avoid inhalation of dust and contact with skin and eyes.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods and Materials for Containment and Cleaning Up

Spilled material, may be slippery. Avoid generation and spreading of dust. Pick up with shovel or mechanical equipment. Wet methods and vacuuming may be used on spills. Avoid clearing dust surfaces with compressed air.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid inhalation of dust and contact with eyes and skin. Use only with adequate ventilation. Wash thoroughly after handling. Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.

Conditions for Safe Storage

Keep material dry in storage. No special handling required. Avoid creating dust. Not an electrical conductor.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Glass	3 mg/m3 *		5 mg/m3 *			

Appropriate Engineering Controls

Activities that generate dust require the use of general ventilation, local exhaust and/or wet suppression methods to maintain exposures below allowable exposure limits. Eyewash station should be within direct access.

Contamination:

Take all the necessary precautions stated herein as well as those directed by the coatings and substrate suppliers. Any contamination that cannot be traced must be sampled for its content prior to work.

Individual Protection Measures

Eye/Face Protection

Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessively (visible) dusty conditions are present or are anticipated.

Product Identifier: Green Grit - Ver. 14

SDS No.: 1464

Date of Preparation: August 30, 2021

Date of Last Revision: March 06, 2020

Page 02 of 06

Skin Protection

Use gloves to provide hand protection from abrasion. In dusty conditions, use long sleeve shirts and long pants. Wash work clothes after each use.

Respiratory Protection

A NIOSH approved air-purifying respirator with a type 100 (high efficacy) particulate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. For abrasive blasting use a type CE abrasive-blast, supplied-air respirator covering head, neck and shoulders to provide protection from rebound abrasives per 29 CFR 1910.94 (a)(5).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear white - green crystalline.
Odour	Odourless
Odour Threshold	Not applicable
pH	Not applicable
Melting Point/Freezing Point	Not applicable (freezing)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	Not available
Solubility	Insoluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not applicable
Auto-ignition Temperature	Not applicable
Other Information	
Physical State	Solid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Hazardous polymerization does not occur.

Chemical Stability

Stable when used, stored and transported under normal conditions.

Possibility of Hazardous Reactions

Not applicable.

Conditions to Avoid

None known.

Incompatible Materials

This product is incompatible with certain substances: hydrofluoric acid, some fluorinated compounds (fluorine, bromine trifluoride and selenium oxifluoride). When the product comes in contact with alkali solutions, it is slowly broken down.

Hazardous Decomposition Products

Unknown and not suspected.

SECTION 11. TOXICOLOGICAL INFORMATION

Product Identifier: Green Grit - Ver. 14
Date of Preparation: August 30, 2021
Date of Last Revision: March 06, 2020

SDS No.: 1464

Page 03 of 06

Likely Routes of Exposure

Inhalation.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Glass	Not available	3160 mg/kg (rat)	Not available

Skin Corrosion/Irritation

Dust particles can scratch and irritate the skin with redness, an itching or burning feeling, swelling of the skin, and/or rash.

Serious Eye Damage/Irritation

Dust particles can scratch the eye causing tearing, redness, a stinging or burning feeling, or swelling of the eyes with blurred vision.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Dusts may irritate the nose, throat and respiratory tract. Shortness of breath.

Ingestion

Expected to be practically non-toxic. Ingestion of large amounts may cause gastrointestinal irritation including nausea, vomiting, diarrhea, and blockage.

Other Information

Medical Conditions Aggravated by Exposure: Chronic lung conditions may be aggravated by exposure to high concentrations of dust.

Delayed and immediate effects and also chronic effects from short and long term exposure: Prolonged overexposure to respirable dusts in excess of allowable exposure limits can cause inflammation of the lungs leading to possible fibrotic changes, a medical condition known as pneumoconiosis.

Carcinogenicity: No known chronic hazards, not listed by IARC, NTP or OSHA as a carcinogen. This product is amorphous and contains less than 1% of free crystalline silica.

Take special precaution to note the potential hazards of the substrate, coatings or contamination that are removed by the use of our product. All material Certifications and chemical analyses should be obtained before commencement of work.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability

This material is persistent but inert in aquatic systems. It will not bioconcentrate up the food chain.

Bioaccumulative Potential

This product is not bioaccumulating.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Product Identifier: Green Grit - Ver. 14
Date of Preparation: August 30, 2021
Date of Last Revision: March 06, 2020

SDS No.: 1464

Page 04 of 06

Waste Disposal: Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations. If approved, may be transferred to a land disposal site. Please refer to section 8 for the safety of persons conducting disposal.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

Listed on the TSCA Inventory.

Additional USA Regulatory Lists

There is no CERCLA Reportable quantity for this material.

Contains no SARA Title III, Section 313 notification chemical present at or above the de minimus concentration.

California Proposition 65: No ingredient is listed.

Custom Regulatory 1

German Water Hazard Classification VwVwS: WGK class 1 (Low hazard to water).

HMIS and NFPA Hazard Rating: 0,0,0

CEPA: These products are exempt from CEPA reporting on the Domestic Substances Lists.

SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 0	Flammability - 0	Instability - 0
SDS Prepared By	Ron Harber		
Phone No.	(905) 689-7361, ext 351		
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Key to Abbreviations	ACGIH® = American Conference of Governmental Industrial Hygienists OSHA = US Occupational Safety and Health Administration HSDB® = Hazardous Substances Data Bank		
References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS).		
Disclaimer	To the best of our knowledge, the information contained herein is accurate. Although certain hazards are described herein, we can not guarantee that these are the only		

Product Identifier: Green Grit - Ver. 14

SDS No.: 1464

Date of Preparation: August 30, 2021

Date of Last Revision: March 06, 2020

Page 05 of 06

hazards that exist.

Opta Minerals Inc. assumes no liability arising out of the use of this product by others.

Product Identifier: Green Grit - Ver. 14
Date of Preparation: August 30, 2021
Date of Last Revision: March 06, 2020

SDS No.: 1464

Page 06 of 06