

SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION

Material Name: VITRO CLEAR™ crushed glass filter media
 Alternate Name: Vitro-clear, Vitro-clear #2, Vitro-clean
 Common Name: Crushed Glass
 Product use: Filtering Media for Sand filtration system in water parks, swimming pools, and aquariums
 Varying pore sizes of crushed glass is used depending on the application.
 Manufacturer/Supplier: Enviro-grit Abrasives, 1279 Sword Ave., P.O. Box 4369 Quesnel B.C. Canada V2J 3J4
 Emergency Telephone: 1-250 992 7281
 Information Telephone: 1-250 992 7281

SECTION 2 – COMPOSITION / INGREDIENTS

Hazardous Ingredients	Approximate Concentration (% wt/wt)	C.A.S. #	LD50/LC50 (Incl. Species & Route)	Occupational Exposure Limits
Glass dust	99-100		Not available	10 mg/m ³ Total Dust (Not Otherwise Classified) 3 mg/m ³ Respirable (PNOC, Nuisance dust)
Silica, Crystalline (α -Quartz, Cristobalite, Tridymite) ²	<0.1		Not applicable	Not applicable (² Below detection)
Trace Metals (Sodium, Calcium, Iron) ³	<1.0		Not applicable	Not applicable

¹TLV = Threshold Limit Value – TWA (8 hrs.); inhalable fraction for Total Particulates

²Bulk product testing measured levels below detection (< 0.1%) using Modified NIOSH 7500 – Silica, Crystalline, and Modified OSHA ID-142 – Crystalline Silica, Quartz and Cristobalite by XRD performed by Accredited Laboratories.

³Not applicable: bulk material analyzed by ISO 17025 accredited laboratory reported the percent composition of contaminants below the reporting limits of 1% for toxic and 0.1% for very toxic substances. Metal scan analysis detected: Sodium at 0.142%, Calcium at 0.034% and Iron at 0.013%; the composition of the above impurities may differ slightly depending on the origin of the recycled glass crushed.

SECTION 3 – HAZARD IDENTIFICATION

Routes of Entry: Skin Contact No Skin Absorption No Eye Contact: Yes
 Inhalation Yes Ingestion Yes

Hazards Summary: Contain glass particulates; glass dusts may cause eye and respiratory irritation. Avoid inhalation of dusts and eye contact. Dust mask recommended when handling fine product (EG-100-200); while decanting. Prolonged and excessive exposure may cause skin abrasion and dryness; wear skin protection for excessive handling.

GHS Classification: Not classified as dangerous for supply/ use

EC Classification: Not classified as dangerous for supply / use

Label elements: Hazard pictogram(s): None required under U.S. OSHA 2012 and Canadian WHMIS 2015 regulations

Signal word: None required Hazard statement(s): None required Precautionary statement(s): None required

SECTION 4 – FIRST AID MEASURES

Skin: Flush skin with water.
 Eyes: Flush off the material with large amounts of luke-warm water for 15 minutes; get medical attention.
 Inhalation: In case of accidental inhalation, move victim to fresh air, follow basic First Aid and CPR protocols. Get medical attention.
 Ingestion: Do not induce vomiting; get medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

Flammability: Not Flammable

Conditions to avoid: None known

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Means of Extinction: Not applicable

Flash Point (deg.C) & Method: Not flammable

Melting Point: 1400°C-1600°C

NFPA: Not Applicable

Hazardous Combustion Products: Smoke

Special Procedures: None required

Auto-Ignition Temp. (deg.C): Not Applicable

Sensitivity to Impact: Not Applicable

Sensitivity to Static Discharge: Not Applicable

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leaks & Spills: Collect dry material with scoop or shovel limiting dust levels. Use appropriate personal protective equipment. Material can be vacuumed or wet wiped. No specific requirements for waste disposal; follow local / municipal guidelines.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures & Equipment: Store in dry cool location in sealed containers. When handling, avoid dust generation, and limit exposure to nuisance dust within the Occupational Exposure Limits (OELs). Use single use (N95) respirator for low dust levels at or around the OELs. Use protective gloves when handling large amounts of material; no specific requirement for the type of glove material.

SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limits for Particulates (insoluble) not otherwise specified (PNOS)

TLV-TWA and Alberta OEL (for 8hr exposure), 10mg/m³, Inhalable particulate; 3mg/m³, Respirable particulate

Engineering Controls: Where there is a possibility for the generation of ultrafine dusts (<10nm size) engineering controls such as local exhaust ventilation must be implemented to reduce the level of respirable dust.

Respiratory Protective Equipment: Wear appropriate respirator to ensure the protection factor (PF) meets the particulate concentration in the breathing zone of the worker. Precaution must be taken when blasting on coated surfaces (having paint containing lead and heavy metals, rock/concrete having silica, and heavy metal surfaces). When handling dry material consider the use of local exhaust ventilation system.

Gloves: Wear gloves that are resistant to abrasion (e.g. leather, nitrile, neoprene).

Eye: Safety glasses / goggles as required

Clothing: No specific requirement.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid / Granular

Moisture content: <0.1% weight

Specific Gravity: 2.4

pH: 7.2

Percent Volatiles, by volume: Not volatile

Vapour Density (air=1): Not Applicable

Auto-ignition Temperature: Not Applicable

Hazardous Combustion Products: None

Sensitivity Impact: Not Applicable

Flash Point: Not Available

Coefficient of Water/Oil Distribution: Not Applicable

Colour: Mixed green/white/amber

Vapour Pressure (mmHg): Not Applicable (no vapours <700°C)

Odour Threshold (ppm): Not Applicable NA (no odour)

Evaporation Rate: Not Applicable (will not evaporate)

Boiling Pt. (deg.C): Not Available

Freezing Pt. (deg.C): Not Available

Solubility in Water: Not Soluble

Explosion Data: Not Available

Sensitivity to Static: Not Applicable

Flammability (% by volume): Not Flammable; not combustible

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions of Instability: None

Incompatibility with other substances: None Reactivity, and Conditions to Avoid: None, Not Reactive

Hazardous Decomposition Products: Not Available

SECTION 11 – TOXICOLOGICAL INFORMATION

Effects of Acute Exposure: Dust may irritate eyes, and respiratory system.

Effects of Chronic Exposure: Prolonged skin contact and rubbing may lead to skin abrasion and dermatitis. Exposure to excessive amounts of dust can cause adverse health effects including particulate overload in the lungs' affect the clearance mechanisms of the lungs that must be maintained in a functional condition.

Skin Sensitization: None reported

Respiratory Sensitization: None reported

Respiratory Tract Irritation: Yes

Synergistic Materials: Not Available

Carcinogenicity (IARC): None reported

Reproductive Effects: None reported

Embryotoxicity: None reported

Teratogenicity: None reported

Mutagenicity: None reported

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Fate: Not Available; none reported

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

SECTION 13 – DISPOSAL INFORMATION

Waste Disposal: Do not dispose down the drain. Re-use or dispose in accordance with local / municipal requirements.

USEPA: No USEPA waste numbers applicable.

SECTION 14 – TRANSPORT INFORMATION

Special Shipping Information: NA

PIN: NA

TDG: Not Regulated

DOT: Not regulated

IMO: Not regulated

IATA: Not Regulated

Proper Shipping name: Not classified as dangerous for transport

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: Does not meet WHMIS classification requirements

This product contains no toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (SARA 313 – Toxic Chemical Release Reporting).

EPA SARA 311/312 Hazard Classification: This product is not considered hazardous under OSHA and SARA Title III, Section 301, Category: Chronic Health.

CERCLA Section 103: This product is not subject to CERCLA reporting requirements as it is sold. Refer to CERCLA regulations to determine if used product mixed with other chemicals or materials may be reportable. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

EPZ Toxic Substance Control Act (TSCA): DOT Marine Pollutants: This product does not contain Marine Pollutants as defined in 49 CFR 171.8.

General information: www.dir.ca.gov/dosh

Cal/OSHA regulations: www.dir.ca.gov/samples/search/query.htm

Cal/OSHA safety and health publications: www.dir.ca.gov/dosh/puborder.asp

Cal/OSHA: www.dir.ca.gov/dosh/etools/etools.htm

SECTION 16 – PREPARATION AND OTHER INFORMATION

Date SDS Prepared: March 1, 2024

Disclaimer: This Safety Data Sheet was prepared in accordance with requirements of the Hazardous Products Act and Controlled Products Regulations using information provided by suppliers of component materials and other sources, including the Hazardous Substances Data Bank. Enviro-grit Abrasives believes that the information provided in this SDS is reliable and current as of the date of publication, but makes no such warrantee. The SDS should be provided to any individuals who will handle, store, use, transport or otherwise be exposed to the product. The data provided in this SDS do not address hazards posed by other materials which may be mixed with or used with this product.

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