

MATERIAL SAFETY DATA SHEET

®

Section I – Company Identification

MATERIAL SAFETY DATA SHEET: GlassBlast -Crushed Glass Abrasive Media

Manufacturer's name RECM, LLC
Address 14741 Franklin Ave, Ste B
City Tustin
State CA
Country United States
Postal Code 92780

Telephone number: (855) 291-6996

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Section II – Product Identification and Use

Product Identifier Amorphous Silica, Soda-Lime Glass, Glass Oxide or Silicon Dioxide
Product Use Expendable Abrasive for dry or wet grit blasting
Product Name: "GlassBlast®"

Section III – Hazardous Ingredients

CAS Number: 65997-17-3

Glass sand is not classified as a hazardous material by the criteria of the OSHA Hazard Communication Standard, Title 29, Code of Federal Regulations, Section 1910.1200, Hazard Communication.

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

Section IV – Physical Data

Physical state Solid

Boiling point N/A

Specific Gravity (H2O:1) 2.46 – 2.53 g/cc

Appearance White and colored transparent, fine granules

Odor Odorless

Solubility in water Insoluble

pH of Solution N/A

Mesh Size Number (Available) - #12/20, #20/46, #46-70

Packaging Option- 3000 lbs sacks, 50 lbs paper bags, 20 lbs plastic pail

Grain Shape- angular to sub angular particles

Certifications & Approvals- California Air Resources Board for outdoor abrasive blasting and certified by the U S Navy for Qualified Product Listing under its specification MIL-A-22262B(SH)

Abrasives, Ship Hull Blast Cleaning

Water Solubility- 114 to 630 micro-ohms/cm

Hardness- KH 540 to 542. Mohs hardness of about 5.7

Acid Solubility: Insoluble

Chloride Content – by weight <0.0005 %

Specific Gravity- 2.53 (density 80# per cu. Ft.)
Melting Point- Approximately 1700F, Softening 700F
Free Silica Content - no detectable free silica
Color- green/brown
Available Size- 12/20 course, 20/46 medium, 46/70 fine
Typical Chemical Analysis PERCENTAGE BY WEIGHT:

SiO ₂	72.8
Na ₂ O	13.7
CaO	8.8
MgO	4.0
Al ₂ O ₃	.1
Fe ₂ O	3.12
K ₂ O	.04
SO ₃	.26

Section V – Fire and Explosion Data

Flammability Product is nonflammable, non-explosive and stable under normal conditions of use, storage and transportation

Section VI – Accidental Release Measures

Safeguards (Personnel): NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up. The material is inert, stable and hazardous polymerization will not occur.
Accidental Release Measures: Sweep up spillage.

Section VII – Reactivity Data

Chemical Stability: Stable
Incompatibility with Other Substances: None reasonable foreseeable
Decomposition: Will not occur
Polymerization: Will not occur

Section VIII – Health Hazard Data

Nuisance Dust (total) : 15mg/m³ TLV (units) depends on particle size
Nuisance Dust (respirable) : 5mg/m³ TLV (units) depends on particle size
Routes of Entry :
Lungs (breathing): Yes
Ingestion: No
Skin: No
Health Hazard (Acute & Chronic): Dust in excess of recommended exposure limits may result in irritation to the respiratory tract.
Signs & Symptoms of Exposure: Eye and respiratory irritation may result if recommended exposure limits are exceeded.
Medical Conditions Generally Aggravated by Exposure: Chronic lung conditions may be aggravated by exposure to high concentrations of dust.

Carcinogenicity: Exposure to and contact from dust may irritate the respiratory system, eyes, or skin. Soda lime glass is not listed on the NTP, IARC, or OSHA list of carcinogens
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 IX – First Aid Measures

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Skin Contact

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

Inhalation

If inhaled, immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion

No specific intervention is indicated as the product is not hazardous by ingestion. However, if symptoms occur, consult a physician.

Section X – Exposure Controls & Personnel Protection

Engineering Controls

Use sufficient ventilation to keep employee exposure below recommended limits.

If using this product as an abrasive blasting agent in confined areas, airborne dust levels should be controlled by physical enclosure of the abrasive blasting operation. The enclosure should be exhaust ventilated in accordance with 29 CFR 1910.94 Ventilation (a) Abrasive Blasting.

Eye

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

Respirator

A NIOSH approved air-purifying respirator with a type 100 (high efficiency) 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)

Substrate, coatings or 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.

Section XI – Handling & Storage

Handling (Personnel): Avoid breathing dust. Wash thoroughly after handling. If handling respirable flour, use of gloves and washing before eating, drinking, applying cosmetics or smoking is advisable to minimize dust inhalation or ingestion from hands

Section XII – Disposal Considerations

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.

Section XIII – Transportation Information

Shipping Containers: Hopper cars, hopper trucks, bags and semi-bulk bags.

GlassBlast Media products are not regulated as a hazardous material by DOT or IMO.

Section XIV – Regulatory Information

Title III Hazard Classifications Sections 311, 312

Acute: No

Chronic: No

Fire: No

Reactivity: No

Pressure: No

Section XV – Silicosis Warning

This product contains no free silica; therefore, will not cause silicosis, a fatal lung disease.

Breathing dust from surfaces being blasted may cause other serious or fatal diseases. Special precautions should be taken in these cases with all material certifications and chemical analyses obtained before commencement of work.

DANGER

You must comply with all OSHA, local, City, State, Province, Country and jurisdiction regulations, ordinances and standards, related to your particular work area and environment. Keep unprotected individuals out of the work area. Failure to avoid the above danger will result in death or serious injury.

Disclaimer

The opinions expressed herein are those of competent personnel within RECM, LLC. RECM believes that the information contained herein is current and accurate for the normal and intended use of this product as of the date of this Material Safety Data Sheet. Since the use of this information and of those opinions or the conditions of use of the product are not within the control of RECM, LLC it is the users obligation to determine and observe the conditions of safe use and disposal of the product by their operations. RECM will not be liable for any loss, damage or injury arising out of use thereof.