

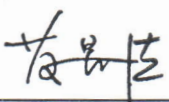


Safety Data Sheet

Sample Name: GLASS MOSAIC

Effective Date: 2017-8-21

Compiler: 

Checker: 

Approver: 





Safety Data Sheet

GLASS MOSAIC

1. Product and Manufacturer Identification

Product name	GLASS MOSAIC		
Manufacturer/Supplier	KEEN OCEAN ASIA LIMITED		
Address	ROOM 2202, TUNG CHIU COMMERCIAL CENTRE, 193 LOCKHART ROAD, WANCHAI, HONG KONG		
Telephone	+86-13827766707		
Email	nadia@keenocan.com		
MSDS No.	201700773 1R1 bE	Effective date	August 21, 2017
Emergency phone	+86-13827766707	Contact person	Nadia Ng

2. Hazards Identification

Hazard category GHS-US	Not classified as hazardous substance according to OSHA Hazard Communication Standard (29 CFR 1910.1200).		
Pictograms and Signal word	None.		
Hazard statements	None.		
Precautionary statements	None.		
Other hazards	We recommend wet cutting or the score and snap method during the installation process. Do not dry cut using power tools during the installation process. Improper installation techniques could expose installer to harmful silica dust.		

* Classification according to 29 CFR 1910.1200.

** The substance is not classified based on testing as a whole. It consists of ingredient(s) of unknown acute toxicity.

3. Composition/Information on Ingredients

Component		Range % by Wt.		CAS No.
Glass	Silicon dioxide	65 ~ 75	96.5	7631-86-9; 60676-86-0
	Oxides/compounds of calcium, sodium, boron, fluorine, erbium and neodymium	25 ~ 35		Not applicable



Component		Range % by Wt.		CAS No.
Glaze	Epoxy resin (contains 50 ~ 60% resin, 20% Titanium dioxide and 20% Calcium carbonate)	80 ~ 84	3.2	Not applicable
	Titanium dioxide	8 ~ 10		13463-67-7
	Zirconium silicate	8 ~ 10		10101-52-7
BOPET	Poly(ethylene terephthalate)	80 ~ 100	0.3	25038-59-9
	Isophthalate copolymer	1 ~ 20		24938-04-3
	Titanium dioxide			13463-67-7
	Carbon black			1333-86-4

4. First Aid Measures

Skin contact	Will not cause harm under general conditions. Get medical advice if injured.
Eye contact	Will not cause harm under general conditions. Get medical advice if injured.
Inhalation	Will not cause harm under general conditions. If feel unwell, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, consult a physician.
Ingestion	Will not cause harm under general conditions. Get medical advice if injured.

5. Fire Fighting Measures

Types of hazard	Not considered to be an explosion hazard.
Hazardous combustion products	Carbon oxides and some other irritating/toxic fume and dust.
Fire-fighting measures	Use any means suitable for extinguishing surrounding fire. Suitable extinguishing medial: Water spray, dry powder, sand, water-resistant foam, etc.
Special Information	In case of fire, use self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions and Emergency procedures	Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Use personal protection recommended in Section 8.
Environmental precautions	Avoid dust formation. Vacuuming or wet sweeping may be used to avoid dust dispersal.
Methods for containment and cleaning up	Sweep up and containerize for reclamation or disposal. Flush the contaminated area with plenty water.
Other information	No information.



7. Handling and Storage Measures

Handling	Fragile. Handle with care. Minimize dust generation and accumulation. We recommend wet cutting or the score and snap method during the installation process. Do not dry cut using power tools during the installation process. Improper installation techniques could expose installer to harmful silica dust.
Storage	Stored in a cool, dry, ventilated area.

8. Exposure Controls / Personal Protection

	Component	CAS No.	Limited Values
Occupational exposure limits	Silicon dioxide	60676-86-0	30 mg/m ³ TWA (total) (OSHA) 10 mg/m ³ TWA (resp) (OSHA)
	Calcium carbonate	471-34-1	15 mg/m ³ TWA (total) (OSHA) 5 mg/m ³ TWA (resp) (OSHA)
	Titanium dioxide	13463-67-7	15 mg/m ³ TWA (total) (OSHA) 10 mg/m ³ TWA (ACGIH)
	Zirconium silicate (Zirconium compounds, as Zr)	10101-52-7	5 mg/m ³ TWA (total) (OSHA) 5 mg/m ³ TWA (ACGIH) 10 mg/m ³ STEL (ACGIH)
	Carbon black	1333-86-4	3.5 mg/m ³ TWA (OSHA) 3.5 mg/m ³ TWA (ACGIH)
	Engineering controls	In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if the working conditions cause discomfort to workers, a local exhaust system should be considered. Maintain eye wash fountain and quick-drench facilities in work area. Wet cutting methods and exposure control methods set forth in Table 1 of 29 CFR § 1926.1153 are recommended.	
Inhalation protection	Use self-absorption filter type dust masks.		
Eye protection	General protection.		
Skin protection	Wear general protective gloves and clothings.		
Other information	No information.		

9. Chemical and Physical Properties

Appearance and odor	Colorless blocks, with white coating on the bottom, odorless.
pH	Not applicable.
Density	2.4 g/cm ³
Flammability	This substance is not classified as flammable solid.
Solubility	Insoluble in water.
Main purpose	Decorative materials for interior walls.
Other properties	No data available.



10. Stability and Reactivity

Stability	Stable under ordinary conditions of use and storage.
Possibility of hazardous reactions	No data available.
Incompatibilities	Strong bases and strong oxidizers.
Conditions to avoid	High heat and open flame.
Hazardous polymerization	No data available.
Hazardous decomposition	When exposure to high heat/fire, carbon oxides, aldehydes, terephthalic acid and some other irritating/toxic gas and fume may be generated by thermal decomposition.

11. Toxicological Information

Acute toxicity	Titanium dioxide (CAS No. 13463-67-7): LD50 - Oral - Rat - >10000 mg/kg LD50 - Dermal - Rabbit - >10000 mg/kg Calcium carbonate (CAS: 471-34-1): LD50 - Oral - Rat - 6450 mg/kg Erbium Oxide (CAS: 12061-16-4): LD50 - Oral - Rat - > 5 g/kg Neodymium oxide (CAS: 1313-97-9): LD50 - Oral - Rat - > 5 g/kg Carbon black (CAS: 1333-86-4): LD50 - Oral - Rat - 15400 mg/kg
Skin irritation/corrosion	Calcium carbonate (CAS: 471-34-1): Draize test, rabbit, eye, 750 µg/24h Severe.
Eye damage/irritation	Calcium carbonate (CAS: 471-34-1): Draize test, rabbit, skin, 500 mg/24h Moderate.
Respiratory or skin sensitization	No data available.
Reproductive cell mutagenicity	No data available.
Carcinogenicity	The following components are listed in IARC (International Agency for Research on Cancer) Category: Silica, amorphous (CAS No. 7631-86-9) - Group 3; Titanium dioxide (CAS No. 13463-67-7) - Group 2B; Carbon black (CAS: 1333-86-4) - Group 2B.
Reproductive toxicity	No data available.
STOT-single exposure	No data available.
STOT-repeated exposure	No data available.
Aspiration hazard	No data available.
Health hazards	Will not cause harm under general conditions. Inadvertent ingestion of the product or contact with damaged products may cause injury.
Other toxicity	No data available.



12. Ecological Information

Ecological toxicity	This substance is not expected toxic to aquatic life.
Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility in soil	No data available.
Others	No data available.

13. Disposal Information

Disposal measures	Not regulated.
Notes	Waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transportation Information

Regulations	IATA DGR	IMDG Code
UN No.	Not regulated.	Not regulated.
Proper Shipping Name	Not regulated.	Not regulated.
Hazard Class	Not regulated.	Not regulated.
Packing Group	Not regulated.	Not regulated.
Packing Method	Not regulated.	Not regulated.
Environmental hazards	This substance does not belong to environmentally hazardous substance/marine pollutants.	
Notes	Not regulated.	

15. Regulatory Information

Component	CAS No.	TSCA	DSL	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Silicon dioxide	7631-86-9; 60676-86-0	Yes	Yes	No	No	No	No	No	No
Calcium carbonate	471-34-1	Yes	Yes	No	No	No	No	No	No



Component	CAS No.	TSCA	DSL	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Erbium Oxide	12061-16-4	Yes	Yes	No	No	No	No	No	No
Neodymium oxide	1313-97-9	Yes	Yes	No	No	No	No	No	No
Epoxy resin	Not applicable	No	No	No	No	No	No	No	No
Titanium dioxide	13463-67-7	Yes	Yes	No	No	No	No	No	No
Zirconium silicate	10101-52-7	Yes	Yes	No	No	No	No	No	No
Poly(ethylene terephthalate)	25038-59-9	Yes	Yes	No	No	No	No	No	No
Isophthalate copolymer	24938-04-3	Yes	Yes	No	No	No	No	No	No
Carbon black	1333-86-4	Yes	Yes	No	No	No	No	No	No

16. Other Information

According to	OSHA Hazard Communication Standard (29 CFR 1910.1200)
Issue date	August 21, 2017
Prepared by	Department of Physical Properties Test, China National Analytical Center, Guangzhou
Checked by	Technology and Quality Department, China National Analytical Center, Guangzhou
Other information	—



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China National Analytical Center, Guangzhou

Address:	Block 34, 100 Xianlie Road, Guangzhou, China	Post code:	510070
Tel:	+86-20-37656880	Fax:	+86-20-87685550
Email:	ywc@fenxi.com.cn	Website:	http://www.fenxi.com.cn