

Product name: Black Slate Natural Stone
Product No: VALANGO BLACK™

SECTION 1: IDENTIFICATION

1.1 Product Name: VALONGO BLACK™ Slate Natural Stone
All Grades and Thicknesses

Substances (Major): Quartz

Quarry/Importer: Porto Slate Importers
104 Davidsons Mill Road
North Brunswick, NJ 08902-4747
USA
Phone: +1 732 828 0500
Website: www.portoslateimporters.com

1.2 Trade Identification: Natural Stone

1.3 Materials Uses: Decorative Surfacing, Pavers, Countertops, Architectural Dimensional Stone Façades, other Building uses (except Roofing Tiles)

1.4 In Case of Emergency Contact: Porto Slate Importers +1 732 828 0500. For immediate Emergency involving Loss of Life or Limb call 911 (USA and Canada).

SECTION 2: HAZARDS IDENTIFICATION

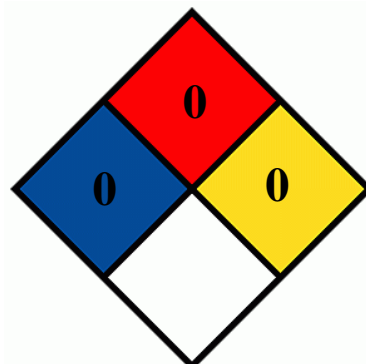
2.1 FOR PRODUCT IN SLAB FORM

2.1.1 GHS Classification: Carcinogenicity Category 1A (H350)
GHS Signal Words with Hazard and Precautionary Statements: Not Applicable
GHS Pictograms: Not Applicable
Route of Entry: Not Applicable
Target Organs: Not Applicable
Skin Contact: Solid Slab may be abrasive to or cut skin.
Eye Contact: No hazard for product as Sold
Respiratory Contact: No hazard for product as Sold
Ingestion: No expected route of entry

2.1.2 HMIS (United States)

Health:	0
Flammability	0
Reactivity	0
PPE	C

NFPA (United States)





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2.1.3 WHMIS (Canada): Not classified as Hazardous

2.2 FOR PRODUCT IN DUST, CHIPS AND FINES PRODUCED DURING FABRICATION

2.2.1 GHS Classification:

CATEGORY	SIGNAL WORD/SYMBOL	HAZARD STATEMENT(S)
Health	Danger 	H372: Causes damage to respiratory system through prolonged or repeated exposure by inhalation.
Harmful		H335: Harmful Respiratory Tract Irritant

GHS Signal Words with Hazard and Precautionary Statements:

Prevention:

P260: Do not breathe dust (Dust may be generated during fabrication)

P264: Wash hands and face thoroughly after handling (Dust may be generated during fabrication)

P270: Do not eat, drink or smoke when using this product (Dust may be generated during fabrication)

P284: Wear respiratory protection: (Dust may be generated during fabrication)

Route of Entry: Eye contact, skin contact and inhalation

Target Organs: Lungs

Skin Contact: Fabrication operations such as milling, cutting, grinding, etc., may produce dust or fines that may be irritating

Eye Contact: Fabrication operations such as milling, cutting, grinding, etc., may produce dust or fines that may be irritating

Respiratory Contact: Fabrication operations such as milling, cutting, grinding, etc., may produce dust or fines that may be irritating. Repeated and prolonged inhalation of fabrication dust may lead to chronic respiratory irritation. Asthmatic conditions may be aggravated by uncontrolled airborne dust exposure. Silicosis has been associated with prolonged exposure by inhalation of Crystalline Silica dust.

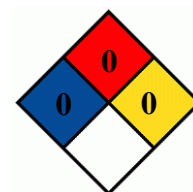
Ingestion: Not an expected route of entry

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2.2.2 HMIS (United States)

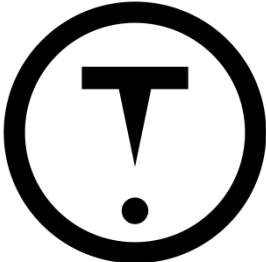
Health: 0*
Flammability 0
Reactivity 0
PPE C

NFPA (United States)



*See Sections 2, 3, 8 and 11 for additional information

2.2.3 WHMIS (Canada):

CATEGORY	SIGNAL WORD/SYMBOL	HAZARD STATEMENT(S)
D2A	Very Toxic 	Poisonous and infectious material. Toxic Effects - Other. Very Toxic Material at $\geq 0.1\%$. Causes damage to respiratory system through prolonged or repeated exposure by inhalation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Inorganic Mineral(s) (May include but is not limited to Cristobalite, Silica, Quartz, others.)

Chemical Compound	CAS No.	% by Weight*
Calcium Carbonate	471-34-1	0 - 20
Silica as Quartz	14808-60-7	25 - 85
Feldspar	68476-25-5	0 - 15
Biotite	12001-26-2	0 - 5
Iron Oxide	1345-25-1	0 - 5
Chlorite	14998-27-7	0 - 5
Apatite, Graphite, Kaolinite, Magnetite, Tourmaline, Zircon	Various	<1.0

SECTION 4: FIRST-AID MEASURES

4.1 FOR PRODUCT IN SLAB FORM

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4.1.1 Skin: Solid Slab may be abrasive to, or cut skin or aggravate existing skin conditions. Wash with soap and water. For abrasions or cuts apply topical ointment and cover with bandages as necessary. If irritation persists, seek medical attention.

4.1.2 Eyes: No Hazard in Slab form.

4.1.3 Respiratory: No Hazard in Slab form.

4.1.4 Ingestion: Not an expected route of entry with normal use.

4.1.5 Other: Due to weight of the Product, safety shoes should be used when handling or moving the product.

4.2 FOR PRODUCT IN DUST, CHIPS AND FINES PRODUCED DURING FABRICATION

4.2.1 Skin: Fabrication operations such as milling, cutting, grinding, etc., may produce dust or fines that may be irritating to the skin and/or aggravate existing skin conditions. Wash skin with soap and water. If irritation persists, seek medical attention.

4.2.2 Eyes: Fabrication operations such as milling, cutting, grinding, etc., may produce dust or fines that may be irritating to the eyes. If the eyes become irritated leave the fabrication environment and rinse eyes with water for 15 minutes. Do not re-enter without proper PPE. If irritation persists, seek medical attention.

4.2.3 Respiratory: Fabrication operations such as milling, cutting, grinding, etc., may produce dust or fines that may be irritating to the respiratory tract. If the respiratory tract becomes irritated leave the fabrication environment and do not re-enter without proper PPE. If irritation persists, seek medical attention.

4.2.4 Ingestion: Not an expected route of entry with normal use.

4.2.5 Other: Due to weight of the Product, safety shoes should be used when handling or moving the product.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 FOR PRODUCT IN SLAB FORM AND IN DUST, CHIPS AND FINES PRODUCED DURING FABRICATION

5.1.1 Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

5.1.2 Specific Hazards Arising from the Chemical/Material: Silicon Oxide.

5.1.3 Special Protective Equipment and Precautions for Firefighters: Use self-contained breathing apparatus and protective clothing appropriate for surrounding fire.

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5.1.4 Flash Point and Method: Not Applicable.

5.1.5 Flammability Classification: Not Known.

5.1.6 Risk of Explosion due to Mechanical Impact: Not Applicable.

5.1.7 Risk of Explosion due to Static Discharge: No hazard in Slab form. Fabrication operations such as milling, cutting, grinding, etc., may produce dust.

5.1.8 Hazardous Products of Combustion: Carbon Oxides (CO and CO₂)

5.1.9 Special Remarks: None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: Material is Non-Hazardous as sold in Slab form.

6.2 Environmental Precautions: Do not let product enter drains.

6.3 Clean-Up Methods and Materials: Material is Non-Hazardous as sold in Slab form. In fabricated remnants sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

7.1 Handling Precautions: No specific usage precautions required. Follow normal good hygiene practices. Protect exposed skin from cuts and abrasions. Foot protection may be required due to product weight. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dust does not accumulate on surfaces. Avoid dispersal of dust in the air (i.e. cleaning dusty surfaces with compressed air, etc.) Fabrication tooling should be liquid cooled to minimize dust dispersal in the air.

7.2 Storage Precautions: Store in a dry well-ventilated area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS AND EXPOSURES:

Material/Compound	Exposure Limits		
	PNOR	OSHA PEL	
Particulate Not Otherwise Regulated	Dust from Fabrication	TWA 5 mg/M ³ (Total Respirable)	TWA 15 mg/M ³ (Total Dust)

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Material/Compound	Exposure Limits		
	ACGIH TLV	OSHA PEL	
Silica, Crystalline, α-Quartz CAS No. 14808-60-7 (Dust from Fabrication)	TWA	TWA	TWA
	0.025 mg/M ³ (Respirable Fraction)	(10 mg/M ³ /‰SiO ₂ + 2) (Total Respirable)	(30 mg/M ³ /‰SiO ₂ + 2) (Total Dust)

Material/Compound	Exposure Limits	
	ACGIH TLV	OSHA PEL
Silica, Crystalline, Cristobalite CAS No. 14464-46-1 (Dust from Fabrication)	TWA	TWA
	0.025 mg/M ³ (Respirable Fraction)	((10 mg/M ³ /‰SiO ₂ + 2)/2) (1/2 Total Respirable for Quartz)

8.2 Engineering Controls: FOR PRODUCT IN SLAB FORM

8.2.1 Ventilation: No special ventilation requirement.

8.2.2 Other: None

8.3 Engineering Controls: FOR PRODUCT IN DUST, CHIPS AND FINES PRODUCED DURING FABRICATION

8.3.1 Ventilation: Provide adequate ventilation to meet exposure guidelines if fabrication operations generate dust or fines. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling the dust particulates of this product contain explosion relief vents or an explosion suppression system or and oxygen-deficient environment. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment).

8.3.2 Other: None

8.4 Individual Protection Measures and PPE:

8.4.1 Eyes/Face Protection: Safety glasses with side shields or goggles are recommended when fabrication of the products produces Dust, Chips and Fines. During grinding operations, a face shield should be used.

8.4.2 Skin Protection: Gloves suitable for protection against cuts and abrasions from sharp edges. For Slab and Fabrication usage, maintain good industrial hygiene. Consult a physician for protection recommendations for workers suffering from dermatitis or sensitive skin.

8.4.3 Respiratory protection:

8.4.3.1 FOR PRODUCT IN SLAB FORM: Avoid Dust from the Slab. Wipe or wash the Slab with water prior to handling if excess dust is noticed.

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8.4.3.2 FOR PRODUCT IN DUST, CHIPS AND FINES PRODUCED DURING FABRICATION: If it is not possible to reduce airborne exposure levels to below the OSHA PEL or other applicable limit with ventilation, use proper personal respirator, see NIOSH Respirator Selection Logic, 2004, Chapter III, Table 1, "Particulate Respirators" (www.cdc.gov/niosh/npptl/topics/respirators) to assist you in selecting respirators that will reduce personal exposures to below the OSHA PEL.

8.4.4 Foot Protection: Due to weight of the Product, safety shoes should be used when handling or moving the product.

8.4.5 Thermal Hazards: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance: Solid Slab, Black color with designs and dimensions.

9.2 Odor and Odor Threshold: None and Not Applicable

9.3 pH: Not Applicable

9.4 Melting Point/Freezing Point: Not Applicable

9.5 Initial Boiling Point and Boiling Range: Not Applicable

9.6 Flash Point and Method: Not Applicable

9.7 Evaporation Rate: Not Applicable

9.8 Flammability: Material is combustible

9.9 Lower Explosion Limit (LEL)/Upper Explosion Limit (UEL): Not Applicable

9.10 Vapor Pressure/Vapor Density: Not Applicable

9.11 Relative Density: ~192.3 lbs/ft³ (3 082 kg/m³)

9.12 Solubility(ies): Not Soluble in Water

9.13 Partition Coefficient (n-Octanol in Water): Not Applicable

9.14 Auto-ignition: Not Applicable

9.15 Decomposition Temperature: Not Known

9.16 Viscosity: Not Applicable

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Product is non-reactive

10.2 Chemical Stability: Product is non-reactive

10.3 Possibility of Hazardous Reactions: None

10.4 Conditions to Avoid: None

10.5 Materials to Avoid (Incompatibility): Hydrofluoric Acid may dissolve Inorganic Mineral component and release Silicon Tetrafluoride gas

10.6 Hazardous Decomposition Products: Carbon Oxides (CO and CO₂) and various Hydrocarbons

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 FOR PRODUCT IN SLAB FORM:**

11.1.1 Acute Toxicity to Animals: This product has not been tested for animal effects. This product is not expected to be toxic to animals

11.1.2 Acute Toxicity to Humans: This product has not been tested for human effects. This product is not expected to be toxic to humans

11.1.3 Chronic Toxicity to Animals: This product has not been tested for animal effects. This product is not expected to be toxic to animals

11.1.4 Chronic Toxicity to Humans: This product has not been tested for human effects. This product is not expected to be toxic to humans

11.1.5 Skin Corrosion/Irritation: None Corrosive. Possible Irritant to Sensitive skin

11.1.6 Eye Damage/Irritation: None Known

11.1.7 Respiratory Sensitization: None Known

11.1.8 Skin Sensitization: None Known

11.1.9 Mutagenicity: Classifiable None for Humans

11.1.10 Carcinogenicity: None Known

11.1.11 Reproductive Toxicity: Classifiable None for Humans

11.1.12 Specific target organ toxicity (STOST) – Single Exposure: Not Known

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11.1.13 Specific target organ toxicity (STOST) – Repeated Exposure: Not Known

11.1.14 Aspiration Hazard: Not Applicable

11.2 FOR PRODUCT IN DUST, CHIPS AND FINES PRODUCED DURING FABRICATION:

11.2.1 Acute Toxicity to Animals: LD50 Oral - rat - > 5,000 mg/kg

11.2.2 Acute Toxicity to Humans: The probable lethal dose of silica (oral) for man is over 15 g/kg bw.

11.2.3 Chronic Toxicity to Animals: LD50 Oral - rat - > 5,000 mg/kg

11.2.4 Chronic Toxicity to Humans: The probable lethal dose of silica (oral) for man is over 15 g/kg bw.

11.2.5 Skin Corrosion/Irritation: None Corrosive. Possible Irritant to Sensitive skin

11.2.6 Eye Damage/Irritation: May cause eye irritation

11.2.7 Respiratory Sensitization: May cause reparatory irritation

11.2.8 Skin Sensitization: May cause skin irritation

11.2.9 Mutagenicity: Not Known

11.2.10 Carcinogenicity:

11.2.10.1 By Ingestion:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

11.2.10.2 By Inhalation:

Inhaling crystalline silica can lead to serious, sometimes fatal illnesses including silicosis, lung cancer, tuberculosis (in those with silicosis), and chronic obstructive pulmonary disease

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(COPD). In addition, silica exposure has been linked to other illnesses including renal disease and other cancers.

IARC: Component of this product present at levels greater than or equal to 0.1% is identified as a known human carcinogen by IARC.

ACGIH: Component of this product present at levels greater than or equal to 0.1% is identified as a known carcinogen or potential carcinogen by ACGIH.

NTP: Component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: Component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

11.2.11 Reproductive Toxicity: Not Known

11.2.12 Specific target organ toxicity (STOT) – Single Exposure: Not Known

11.2.13 Specific target organ toxicity (STOT) – Repeated Exposure: Not Known

11.2.14 Aspiration Hazard: Not Applicable

SECTION 12: ECOLOGICAL INFORMATION

12.1 FOR PRODUCT IN SLAB FORM:

12.1.1 Ecotoxicity: Not Known. This product is not expected to be ecotoxic

12.1.2 Persistence and Degradability: Not Known

12.1.3 Bioaccumulative Potential: Not Known

12.1.4 Mobility in Soil: Not Known

12.1.5 Other Adverse Effects: Not Known

12.2 FOR PRODUCT IN DUST, CHIPS AND FINES PRODUCED DURING FABRICATION:

12.2.1 Ecotoxicity: Not Known. This product is not expected to be ecotoxic

12.2.2 Persistence and Degradability: Not Known

12.2.3 Bioaccumulative Potential: Not Known

12.2.4 Mobility in Soil: Not Known

12.2.5 Other Adverse Effects: Not Known

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SECTION 13: DISPOSAL CONSIDERATIONS**13.1 FOR PRODUCT IN SLAB FORM:**

13.1.1 Disposal Methods: Not classified as hazardous waste under RCRA Listed Hazardous Waste (40 CFR parts 239 through 282). Dispose of this product in accordance with Federal, State and local regulations.

13.2 FOR PRODUCT IN DUST, CHIPS AND FINES PRODUCED DURING FABRICATION:

13.2.1 Disposal Methods: Not classified as hazardous waste under RCRA Listed Hazardous Waste (40 CFR parts 239 through 282). Dispose of this product in accordance with Federal, State and local regulations.

SECTION 14: TRANSPORTATION CONSIDERATIONS**14.1 FOR PRODUCT IN SLAB FORM:****14.1.1 UN Number:**

ADR-UN number: Not Applicable
DOT-UN Number: Not Applicable
IATA-Un number: Not Applicable
IMDG-Un number: Not Applicable

14.1.2 UN Proper Shipping Name:

ADR-Shipping Name: Not Applicable
DOT-Proper Shipping Name: Not Applicable
IATA-Technical name: Not Applicable
IMDG-Technical name: Not Applicable

14.1.3 Transport Hazard Class(es):

ADR-Class: Not Applicable
DOT-Hazard Class: Not Applicable
IATA-Class: Not Applicable
IMDG-Class: Not Applicable

14.1.4 Packing Group:

ADR-Packing Group: Not Applicable
DOT-Packing group: Not Applicable
IATA-Packing group: Not Applicable
IMDG-Packing group: Not Applicable

14.1.5 Environmental Hazards:

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Marine pollutant: No
Environmental Pollutant: Not Applicable

14.1.6 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not Applicable

14.1.7 Special precautions Department of Transportation (DOT):

DOT-Special Provision(s): Not Applicable
DOT-Label(s): Not Applicable
DOT-Symbol: Not Applicable
DOT-Cargo Aircraft: Not Applicable
DOT-Passenger Aircraft: Not Applicable
DOT-Bulk: N/A DOT-Non-Bulk: Not Applicable

14.1.8 Road and Rail (ADR-RID):

ADR-Label: Not Applicable
ADR-Hazard identification number: Not Applicable
ADR-Tunnel Restriction Code: Not Applicable

14.1.9 Air (IATA):

IATA-Passenger Aircraft: Not Applicable
IATA-Cargo Aircraft: Not Applicable
IATA-Label: Not Applicable
IATA-Subrisk: Not Applicable
IATA-Erg: Not Applicable
IATA-Special Provisions: Not Applicable

14.1.10 Sea (IMDG):

IMDG-Stowage Code: Not Applicable
IMDG-Stowage Note: Not Applicable
IMDG-Subrisk: Not Applicable
IMDG-Special Provisions: Not Applicable
IMDG-Page: Not Applicable
IMDG-Label: Not Applicable
IMDG-EMS: Not Applicable
IMDG-MFAG: Not Applicable

14.2 FOR PRODUCT IN DUST, CHIPS AND FINES PRODUCED DURING FABRICATION:
Not Applicable

SECTION 15: REGULATORY INFORMATION

15.1 FOR PRODUCT IN SLAB FORM:

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15.1.1 U.S. Federal Regulations:

TSCA - Toxic Substances Control Act

TSCA inventory: All the components are listed on the TSCA inventory

TSCA listed substances: Silica Sand is listed in TSCA Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances: No substances listed

Section 304 - Hazardous substances: No substances listed

Section 313 - Toxic chemical list: No substances listed

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: No substances listed

CAA - Clean Air Act

CAA listed substances: No substances listed

CWA – Clean Water Act

CWA listed substances: No substances listed

15.1.2 State Regulations:

Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components: Silicon dioxide, CAS-No. 14808-60-7

New Jersey Right To Know Components: Silicon dioxide, CAS-No. 14808-60-7

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.1.3 International Regulations:

Canada WHMIS: Not controlled under WHMIS (Canada).

15.2 FOR PRODUCT IN DUST, CHIPS AND FINES PRODUCED DURING FABRICATION:**15.2.1 U.S. Federal Regulations:**

Product name: Black Slate Natural Stone

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TSCA - Toxic Substances Control Act

TSCA inventory: All the components are listed on the TSCA inventory

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CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: No substances listed

CAA - Clean Air Act

CAA listed substances: No substances listed

CWA – Clean Water Act

CWA listed substances: No substances listed

15.2.2 State Regulations:

Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components: Silicon dioxide, CAS-No. 14808-60-7

New Jersey Right To Know Components: Silicon dioxide, CAS-No. 14808-60-7

California Prop. 65 Components: This product contains chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm, Silicon dioxide, CAS-No. 14808-60-7

15.2.3 International Regulations:

Canada WHMIS: Not controlled under WHMIS (Canada).

SECTION 16: OTHER INFORMATION

Product name: Black Slate Natural Stone
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16.1 Caviet: Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws. This document was prepared by a competent person who has received appropriate training. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This SDS cancels and replaces any preceding release.

16.2 Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods. IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level. PNEC: Predicted No Effect Concentration.

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TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity. WGK: German Water Hazard Class.

KSt: Explosion coefficient.