



SAFETY DATA SHEET ACCORDING TO OSHA-GHS (29 CFR PART 1910.1200 HCS 2012)

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Nature's Creation® Expanded Shale

Recommended Uses: Soil Conditioner

Restrictions On Uses: None

Distributor: Nature's Creation®

1434 E. Bitters Road

San Antonio, Texas 78216

Company Telephone: (210) 822-3141 **Company FAX:** (210) 832-9130

Emergency Telephone Number: (210) 822-3141

Section 2. HAZARDS IDENTIFICATION

Classification of the mixture:

Classification of the chemical in accordance with 29CFR §1910.1200

Not classified as hazardous.

Label elements:

Hazard Pictograms: None applicable

Signal Word: None applicable

Hazard Statements: None applicable

Precautionary Statements: None applicable

Other Hazards: None

Classification of the relevant ingredients of the mixture in accordance with 29CFR §1910.1200

Does not contain any hazardous ingredient

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name Crystalline Silica

CAS No. 14808-60-7

EC No.

No substance meeting the classification criteria for health is present over its cut-off value in accordance with OSHA, 29CFR§1910.1200/2012.

Contains Some or All of the Following: Crystalline Silica

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Section 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Provide adequate ventilation. Wear personal protection equipment (Section 8).

Environmental precautions:

None applicable.

Methods and material for containment and cleaning up

None Specified.

Unsuitable material for containment/taking up:

None specified

Other information

None

Section 7. HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid generation of dust. Provide adequate ventilation. Wear personal protective equipment, when required. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Keep/store only in original container. Store in a well-ventilated place. Keep container tightly closed.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Occupational exposure limits

No specific occupational exposure limit for substances in the mixture.

OSHA 10 mg/m³ TWA OSHA PEL (respirable fraction)

% Silica + 2

30 mg/m³ TWA OSHA PEL (total dust)

% Silica + 2

0.025 mg/m³ TWA ACGIH TLV (respirable fraction)

Engineering controls

Use exhaust ventilation to keep airborne concentrations below exposure limits.

Personal Protective Equipment

Eye/face protection

Chemical goggles, recommended.

Skin Protection

Nitrile rubber gloves, recommended.

Respiratory Protection

Wear respiratory protection, where airborne concentrations are expected to exceed exposure limits

General Hygiene Considerations

Avoid contact with eyes and skin. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

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Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General information	
Appearance	Angular or Round Particles
Colour	Gray
Odour	None
Odour Threshold	Not applicable
pH value	Not applicable
Melting point / freezing range	Not applicable
Boiling temperature / boiling range	Not applicable
Flash point	Not applicable
Vapourisation rate / Evaporation rate	No data available
Flammable solids	Not flammable
Explosion limits (LEL, UEL)	Not applicable
Vapour pressure	No data available
Vapour density	No data available
Relative Density	No data available
Solubility	Not applicable
Partition coefficient n-octanol /water	Not applicable
Auto Ignition temperature (AIT)	Not applicable
Decomposition temperature	No data available
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidizing properties	Not oxidizer
Other information	
None	

Section 10. STABILITY AND REACTIVITY

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

Stable under normal storage and temperature conditions.

Possibility of hazardous reactions

Crystalline silica will dissolve in hydrofluoric acid and produce silicone tetrafluoride.

Conditions to avoid

None identified

Incompatible materials

None identified

Hazardous decomposition products

None identified

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Section 11. TOXICOLOGICAL INFORMATION

The following information mostly refers to the major components of the product.

Likely routes of exposure (inhalation, ingestion, skin and eye contact)

Eye contact, skin contact and inhalation. Exposure by ingestion is not expected to occur through normal industrial or agricultural use.

Symptoms related to the physical, chemical and toxicological characteristics

May be irritant to the respiratory tract. May cause redness or irritation to the skin and eyes. Ingestion of large amounts may cause gastrointestinal disturbances.

Information on toxicological effects from short and long term exposure

Acute toxicity

There is no data for the mixture itself. Acute oral toxicity LD50:

Acute Oral Toxicity

Assessment / classification

Irritant and corrosive effects

There is no data for the mixture itself.

Irritation to the skin

The product does not contain relevant ingredients classified as corrosive or irritant to the skin in accordance with OSHA, 29 CFR 1910.1200.

Irritation to eyes

The product does not contain relevant ingredients classified as serious eye damage / eye irritant in accordance with OSHA, 29 CFR 1910.1200.

Assessment / classification: Based on available data, the classification criteria are not met

Respiratory or skin sensitisation

Chronic inhalation of respirable crystalline silica dust may cause a progressive, disabling and sometimes fatal lung disease called silicosis.

Genetic effects

The product does not contain ingredients classified as germ cell mutagens present at or above their cut-off value in accordance with OSHA, 29 CFR 1910.1200..

Assessment / classification: Based on available data, the classification criteria are not met.

Reproductive toxicity

The product does not contain ingredients classified as a category 1 or category 2 reproductive toxicant or for effects on or via lactation present at or above their cut-off value in accordance with OSHA, 29 CFR 1910.1200.

Assessment / classification: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

There is no data for the mixture itself.

The product does not contain relevant ingredients classified as Target Organ Toxicant in accordance with OSHA, 29 CFR 1910.1200.

Assessment / classification: Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

There is no data for the mixture itself.

The product does not contain relevant ingredients classified as Target Organ Toxicant in accordance with OSHA, 29 CFR 1910.1200.

Assessment / classification: Based on available data, the classification criteria are not met

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Aspiration hazard

Physicochemical data and toxicological information does not indicate an aspiration hazard.

Assessment / classification: Based on available data, the classification criteria are not met

Carcinogenicity

Crystalline silica quartz is listed as "Carcinogenic to Humans" (Group 1) by IARC, as a "Known to be a Human Carcinogen" by NTP and "Suspected Human Carcinogen, A2 by ACGIH.

Acute Toxicity Values:

Crystalline Silica, Quartz: Oral rat LD50 >22,500 mg/kg

Section 12. ECOLOGICAL INFORMATION

There is no data for the mixture itself. The following information mostly refers to the major component of the product.

Ecotoxicity

Aquatic Toxicity

There is no data for the mixture itself.

The product does not contain ingredients classified as marine pollutant as defined in DOT, 49 CFR 171.8.

Assessment / classification Based on available data, the classification criteria are not met

Persistence and degradability

The product contains mainly inorganic sulfate and phosphate salts. In aqueous solutions, these salts dissociate into their respective ions. Phosphate ions are finally incorporated into the Phosphorus cycle. In anaerobic conditions, bacteria oxidizes ammonium to nitrite which is further oxidized into nitrate.

Bioaccumulative potential

Low potential for bioaccumulation based on physicochemical properties of main components.

Mobility in soil

The components of this mixture have a low potential for adsorption. Portion not taken up by plants, can leach to groundwater.

Other adverse effects

Excess phosphate leaching may enrich waters leading to eutrophication.

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Section 13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with applicable federal and state laws.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal method in compliance with applicable regulations.

This product is not listed as dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Section 14. TRANSPORTATION INFORMATION

US DOT (49CFR part 172)

UN-No.	Non dangerous good
UN Proper Shipping Name	Not applicable
Hazard class	Not applicable
Packing group	Not applicable
Hazard label(s)	Not applicable
Special marking	No
Special Provision	No

International Maritime Organization (IMDG Code)

UN-No.	Non dangerous good
UN Proper Shipping Name	Not applicable
Hazard class	Not applicable
Packing group	Not applicable
Marine pollutant	No
Hazard label(s)	Not applicable
Special marking	No

International Civil Aviation Organization (ICAO) and International Air Transport Association

UN-No.	Non dangerous good
UN Proper Shipping Name	Not applicable
Hazard class	Not applicable
Packing group	Not applicable
Hazard label	Not applicable
Special marking	No
Special handling procedure	None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Other special precautions

None

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Section 15. REGULATORY INFORMATION

US Federal

SARA Title III Rules

Section 311/312 Hazard Classes

SARA Hazard Category (311/312): Acute Health, Chronic Health

Section 313 Toxic Chemicals

None ingredient is listed.

Section 302 Extremely Hazardous Substances (EHS)/CERCLA Hazardous Substances

None ingredient is listed.

NFPA 704/2012: National Fire Protection Association

Health 1

Fire 0

Reactivity 0

Special None

US State Regulations

SARA 313 Information: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

California Proposition 65

This product contains the following chemicals known to the State of California to cause cancer or reproductive toxicity (birth defects):

Crystalline silica, quartz 14808-60-7 50-70% cancer

Section 16. OTHER INFORMATION

This SDS complies with 29 CFR part 1910 subpart Z (2012) and ANSI Standard Z400.1-2004

Prepared by: Nature's Creation®
E-mail info@naturescreation.co
Preparation Date October 21, 2017

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Indication of changes

All sections were reviewed and modified to comply with 29CFR part 1910 subpart Z (2012).