

BIO-DRY CONCRETE CLEANER

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: BIO-DRY CONCRETE CLEANER
SDS Number: BDFG1
Revision Date: 8/24/2018
Version: 1

Supplier Details: Bio-Dry Products, LLC
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2 HAZARDS IDENTIFICATION

Classification of Substance

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 5 Dermal
Health, Acute toxicity, 5 Inhalation
Health, Specific target organ toxicity - Single exposure, 3

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H313 - May be harmful in contact with skin
H333 - May be harmful if inhaled
H336 - May cause drowsiness or dizziness

GHS Precautionary Statements:

P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280 - Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 - IF exposed or concerned: Get medical advice/ attention.

3 COMPOSITION/INFORMATION ON INGREDIENTS

The chemical identity and/or concentrations have been withheld as trade secret. In the event of an emergency, the exact concentrations and ingredients will be disclosed to competent authority.

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Chemical Ingredients

CAS#	%	Chemical Name
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1318-02-1	50-60%	Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, natural zeolites, synthetic zeolites)
7440-44-0	5-10%	Carbon
471-34-1	20-30%	Carbonic acid calcium salt (1:1)

The chemical identity and/or concentrations have been withheld as trade secret. In the event of an emergency, the exact concentrations and ingredients will be disclosed to competent authority.

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FIRST AID MEASURES

- Inhalation:** If inhaled move to fresh air. If not breathing, give artificial respiration.
- Skin Contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If irritation persist, obtain medical attention.
- Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Contact a physician if redness persists.
- Ingestion:** Do not induce vomiting without medical advice. Do not give anything by mouth to an unconscious or convulsing person. Rinse mouth with water.

Effects and symptoms:

Ingestion: May be harmful if swallowed.

Inhalation: Causes allergy or asthma symptoms.

Skin contact: Causes severe skin burns.

Eye contact: Causes eye damage.

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FIRE FIGHTING MEASURES

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Extinguishing Methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers.

Specific hazards during fire-fighting: Burning produces irritant fumes. Exposure to decomposition products may be a hazard to health.

Special protective equipment: Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

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ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Use appropriate protective equipment. (See Section 8.) Do not get into eyes, skin, or clothing. Wear respiratory protection. Avoid breathing vapors. Ensure adequate ventilation.

Environmental Precautions: Do not let product enter drains. Prevent uncontrolled discharge of product into the environment if safe to do so.

Methods and Materials for Containment and Cleanup: Do not discharge into waste water. Soak up with inert absorbent material (e.g. sand, silica gel, sawdust). Sweep up and shovel. Place in a non-leaking container for proper disposal according to Federal, State, and Local regulations.

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HANDLING AND STORAGE

Handling Precautions: Wear personal protective equipment when handling product. Handle with care. Take care to avoid

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Storage Requirements:

waste and spillage when weighing, loading and mixing the product.
Observe label precautions. Keep containers tightly closed in a dry, cool and well ventilated place. Do not allow product to freeze.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use in well ventilated area.

Personal Protective Equipment:

Personal Protective Equipment: HMIS PP, C | Safety Glasses, Gloves, Apron.

Use good chemical hygiene practice. Avoid contact with skin, eyes, and clothing. Avoid inhalation of vapors/dust.

Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite, synthetic zeolites) cas#:(1318-02-1) [50-60%]

Carbon cas#:(7440-44-0) [5-10%]

Carbonic acid calcium salt (1:1) cas#:(471-34-1) [20-30%]

Components with workplace control parameters

TWA 5 mg/m3 USA. NIOSH Recommended Exposure Limits

TWA 10 mg/m3 USA. NIOSH Recommended Exposure Limits

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Free flowing grey powder

Physical State:

Solid (Powder)

Odor:

Low to no odor

pH:

1% solution in water (7-8.5)

10 STABILITY AND REACTIVITY

Reactivity:

no data available

Chemical Stability:

stable under recommended storage conditions.

Conditions to Avoid Identification:

no data available

Materials to Avoid Identification:

strong oxidizing agents

Hazardous Decomposition:

Oxides of carbon

Hazardous Polymerization:

no data available

11 TOXICOLOGICAL INFORMATION

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Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite, synthetic zeolites) cas#:(1318-02-1) [50-60%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - > 10,000 mg/kg

Inhalation LC50 Dermal LD50 LD50 Dermal - rabbit - > 2,000 mg/kg

Other information on acute toxicity no data available

Skin corrosion/irritation: Skin - Human - No skin irritation

Serious eye damage/eye irritation: Eyes - rabbit - No eye irritation

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: Genotoxicity in vitro - Human - lymphocyte Cytogenetic analysis

Genotoxicity in vivo - mouse - Intraperitoneal

Carcinogenicity:

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Zeolites crystalline aluminosilicates, composed of silica (SiO₂) and alumina (Al₂O₃), in various proportions plus metallic oxides. Pr)

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.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System):

no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: prolonged or repeated exposure can cause:, Damage to the lungs. Cough, Difficulty in breathing, Gastrointestinal disturbance, prolonged or repeated exposure can cause:, Damage to the lungs., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:

RTECS: ZG6800000

Carbon cas#:(7440-44-0) [5-10%]

Information on toxicological effects

Acute toxicity: no data available

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Inhalation: no data available

Dermal: no data available

LD50 Intravenous - mouse - 440 mg/kg

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

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.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Carbonic acid calcium salt (1:1) cas#:(471-34-1) [20-30%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 6,450 mg/kg

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: Skin - rabbit Result: No skin irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation: Eyes - rabbit Result: Mild eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

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

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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.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: FF9335000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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ECOLOGICAL INFORMATION

Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite, synthetic zeolites) cas#:(1318-02-1) [50-60%]

Information on ecological effects

Toxicity:

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

Carbon cas#:(7440-44-0) [5-10%]

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

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Carbonic acid calcium salt (1:1) cas#:(471-34-1) [20-30%]

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

13 DISPOSAL CONSIDERATIONS

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Do not dispose of waste into sewer.

Contaminated packaging: Dispose of as unused product.

14 TRANSPORT INFORMATION

DOT (US): Not dangerous goods

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite, synthetic zeolites) (1318-02-1) [50-60%]

Carbon (7440-44-0) [5-10%] TSCA

Carbonic acid calcium salt (1:1) (471-34-1) [20-30%] TSCA

Regulatory CODE Descriptions

TSCA = Toxic Substances Control Act

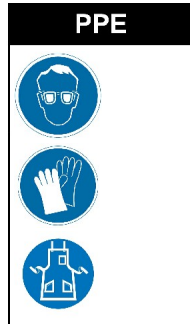
16 OTHER INFORMATION

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HMIS III: Health = 1, Fire = 0, Physical Hazard = 0

HMIS PPE: C - Safety Glasses, Gloves, Apron

HMIS	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C



Author: Bio-Dry Products Technical Department

This information is based on our current knowledge of the product and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.