

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT

Product Name: Septic Scrub™ Drainfield Flow Restorer

Synonyms: None

Chemical Name: Sodium Carbonate Peroxyhydrate

Date: 04/06

2. COMPOSITION

Components	Formula	CAS Number	Percent
Sodium Carbonate Peroxyhydrate	2 Na ₂ CO ₃ · 3H ₂ O ₂	15630-89-4	85 min
Sodium Carbonate	Na ₂ CO ₃	497-19-8	12 max
Sodium Silicate	Na ₂ O · xSiO ₂ (x=3-5)	1344-09-8	2 max

3. HAZARDS IDENTIFICATION

Emergency Overview

- A white granular solid that is an irritant to the eyes, skin, and respiratory tract.
- Not flammable, but damp material decomposes exothermically and may cause combustion of organic material.
- Contamination may cause decomposition
- Does not present any significant hazard for the environmental

Potential Health Effects

EYE: Severe eye irritation. Can cause burns to the eye. Effects may be delayed.

SKIN: Slightly irritating to the skin

INGESTION: Harmful if swallowed

INHALATION: Inhalation of dust may cause irritation to mucous membranes and the respiratory tract

CHRONIC: Not listed as a carcinogen by ACGIH, IARC, NTP, OSHA

4. FIRST AID MEASURES

EYE: immediately flush eyes for 15 minutes with copious amounts of water. Get medical attention

SKIN: Brush off. Wash skin with soap and water. Remove contaminated clothing.

INGESTION: Drink large quantities of water. Do not induce vomiting. Get medical attention.

INHALATION: Remove to fresh air. Get medical attention if needed

5. FIRE FIGHTING MEASURES

FLASH POINT: °F: Nonflammable

EXPLOSIVE LIMITS IN AIR, %: Not applicable

AUTO-IGNITION TEMPERATURE, °F: Not applicable

EXTINGUISHING MEDIA: Use water only

SPECIAL PRECAUTIONS:

- Oxidizing substance
- Damp material may decompose exothermically and ignite combustibles
- Storage vessels involved in a fire may vent gas or rupture due to internal pressure
- Oxygen release due to exothermic decomposition may support combustion

FIRE FIGHTING INSTRUCTIONS

- Personnel should wear normal protective equipment and positive self-contained breathing apparatus
- If safe to do so, remove unaffected product to a safe area

6. ACCIDENTAL RELEASE MEASURES

Shovel product or sweep material into plastic bags or vented containers for disposal. Do not return spilled or contaminated material to inventory. Wash down area with water.

7. HANDLING AND STORAGE

- Store in a cool, dry, ventilated area
- Store separately from organics and reducing materials
- Avoid contamination which may lead to decomposition

8. EXPOSURE CONTROL/ PERSON PROTECTION

Respiratory Protection: Wear a NIOSH approved respirator for toxic dust with TLV >0.05 mg/m³ when exposed to irritating or excessive quantities of the dust.

Hand and Skin Protection: PVC or rubber gloves, suitable coveralls

Eye Protection: Safety goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Odor: None

Bulk Density: 1.0 - 1.2 g/cc

Flash Point: Not applicable

Appearance: Yellow granular solid

Solubility in water: 140 g/L @ 75 °F

Melting Point: Not applicable -can decompose above 55 °C

10. STABILITY AND REACTIVITY

Stability: Stable/ Heat or contamination can cause decomposition

Incompatibility:

- Avoid contact with acids, alkalis, and reducing agents
- Avoid contact with decomposition catalysts, such as the majority of metals and their salts
- Avoid contact with combustible and flammable material

Hazardous Decomposition Products:

- Decomposition produces heat and oxygen

Polymerization:

- Does not polymerize

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

- Ingestion: LD₅₀ 1034 mg/kg -rat-sexes combined
- Inhalation: Excessive LC₀, 1 hour, rat, >4580 mg/m³
- Skin Contact: LD₅₀ >2000 mg/kg -dermal, rabbit
- Eye Contact: Causes damage to the eyes. Effects may be delayed
- Comments: Toxic effect linked with irritant properties

Chronic Toxicity:

- Carcinogenicity: Not recognized as a carcinogen by ACGIH, IARC, NTP, OSHA
- Mutagenicity: Contains the peroxygen group which in vitro was shown to be mutagenic without metabolic activation, and generally not mutagenic with metabolic activation. In vivo, no effect has been observed after oral administration.

12. ECOLOGICAL INFORMATION

General:

- Degradation: Decomposes readily to sodium carbonate and hydrogen peroxide. The latter quickly decomposes to water and oxygen.

Aquatic Toxicity:

- Acute Fish: (Pimephales promelas): LC₅₀(96h = 70.7 mg/L; NOEC, 96 hours, 1 mg/L
- Acute Crustaceans, Daphnia pulex: LC₅₀(48h) = 4.9 mg/L; NOEC 48 hours, 1 mg/L

Abiotic Degradation

- Air: Not applicable
- Water: Significant hydrolysis; Degradation products –sodium carbonate, carbon dioxide, bicarbonate, carbonate, hydrogen peroxide
- Soil: Hydrolysis
- Potential for bioaccumulation: Non-bioaccumuable
- **Comments:** Toxic for aquatic organisms. Nevertheless the hazard for aquatic environment is limited due to product properties. Not bioaccumuable, abiotic degradation, low toxicity of degradation products.

13. DISPOSAL INFORMATION

- Dispose of in approved waste facility operated by an authorized contractor and in compliance with federal, state, and local regulations.

14. TRANSPORT INFORMATION

- D.O.T Proper Shipping Name: ORM-D Consumer Commodity
- Shipping containers: 4 X 9 Pound Plastic Bottles per Case

15. REGULATORY INFORMATION

TSCA Inventory List: YES

CERCLA Hazardous Substance (40 CFR part 302): Listed Substance: NO Unlisted Substance: Yes Reportable quantity: 100 Pounds; Characteristics: Ignitability; RCRA Waste Number: D001

SARA, Title III:

- Section 302/303 extremely hazardous substance: NO
- Section 311/312: Hazardous Category: Immediate health hazard; Fire hazard; Threshold planning quantity: 10,000 pounds
- Section 313 Extremely Hazardous Substance : NO

16. OTHER INFORMATION

HMIS® Rating: Health -2 Flammability -0 Reactivity -1

HMIS is a registered trademark of the National Paint and Coating Association

NFPA® Rating: Health -2 Flammability -0 Reactivity -1 Special hazards -OX

NFPA is a registered trademark of the National Fire Protection Association

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