

SAFETY DATA SHEET

Section 1. Identification

GHS product identifier

Product Form: Substance **Product Type:** Liquid

Substance Name: CreteDefender P2 ("Permanent Protection")

Product Code: CDP2 SDS #: CD-001

HTS#: H.S.2839.19.0000

Other means of identification: Not available

Intended Use of the Product

Identified Uses: Industrial

Name, Address, and Telephone of the Responsible Party

CreteDefender, Inc.

1113 Tusculum Blvd, Suite 103 Greeneville, TN 37745

1-877-830-6008

Emergency Telephone Number: US and Canada: 1-800-535-5053

International: 1-352-323-3500

Section 2. Hazards Identification

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200)

Classification of the SKIN CORROSION/IRRITATION - Category 2

substance or mixture: SERIOUS EYE DAMAGE / EYE IRRITATION - Category 2

GHS Label Elements

Hazard pictograms (GHS - US)



Signal Word: Warning

Hazard statements: H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

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Precautionary statements

Prevention: P280 - Wear eye/face protection, protective clothing, protective gloves.

P264 - Wash hands, forearms, and exposed areas thoroughly after handling.

Response: P302+P352+P361 - IF ON SKIN: Wash with plenty of soap and water. Take off

contaminated clothing. Wash contaminated clothing before reuse. If skin

irritation occurs: Get medical attention.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical attention.

Storage: Not applicable Disposal: Not applicable

Hazards not otherwise

classified: None known

Section 3. Composition/Information on Ingredients

Ingredient Name	%	CAS Number
Water soluble reactive silicates	5 - 20	Proprietary

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, thereby requiring reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First Aid Measures

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower eyelids. Check for and remove contact lenses. Continue to rinse for at

least 10 minutes. Get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. if unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing, such as a collar, tie, belt, or

waistband.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing

and shoes. Continue to rinse for at least 10 minutes. Get medical attention.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Wash out mouth with water. Remove dentures, if any. Remove victim to fresh

air and keep at rest in a position comfortable for breathing. if material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick, as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give

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anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing, such as a collar, tie, belt, or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: Causes serious eye irritation

Inhalation: No known significant effects or critical hazards

Skin contact: Causes skin irritation

Ingestion: Irritating to mouth, throat, and stomach

Over-exposure to signs/symptoms

Eye contact: Adverse symptoms may include the following:

Pain or irritation

Watering Redness

Inhalation: No specific data

Skin contact: Adverse symptoms may include the following:

Irritation Redness

Ingestion: No specific data

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment

See toxicological information (Section 11)

Section 5. Fire-fighting Measures

Extinguishing Media

Suitable extinguishing

media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media: None known

Specific hazards arising

from the substance: In a fire or if heated, a pressure increase will occur and the container may burst

Hazardous thermal

decomposition products: No specific data

Special protective

equipment for firefighters: Firefighters should wear appropriate protective equipment and self-contained

breathing apparatus (SCBA) with a full face-piece operated in a positive

pressure mode.

Section 6. Accidental Release Measures

Personal precautions: No action shall be taken involving any personal risk or without suitable training.

If greater than 105 gallons are spilled, evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

Environmental precautions: If spill is greater than 105 gallons, inform the relevant authorities if the product

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has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water

and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste container. Dispose of via a

licensed waste disposal contractor.

Large spill (105 gallons or more): Stop leak if without risk. Move containers from spill area. Approach release

from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material, e.g. sand, earth, vermiculite or diatomaceous earth, and place in container for disposal according to local regulations (See Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information

and Section 13 for waste disposal.

Section 7. Handling and Storage

Handling: Put on appropriate personal protective equipment (see Section 8). Do not ingest.

Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a

compatible material, kept tightly closed when not in use. Empty container retain product residue and can be hazardous. Do not reuse container. Clean equipment

with soap and water as soon as possible after use.

Storage: Store in accordance with local regulations. Store in original container protected

from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not stop in unlabeled containers. Use appropriate containment to avoid environmental contamination. Do not store in aluminum containers as flammable hydrogen gas

can be generated. Do not use aluminum fittings or transfer lines.

Section 8. Exposure Controls/Personal Protection

Control parameters

Occupational exposure limits: None

Engineering measures: Good general ventilation should be sufficient to control worker exposure to

airborne contaminants.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products,

before eating, smoking and using the lavatory and at the end of the working

period. Appropriate techniques should be used to remove potentially

contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection

Respiratory: If a risk assessment indicates this is necessary, use a properly fitted, air-

purifying or aired respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of

the product and the safe working limits of the selected respirator.

Hands: Chemical-resistant, impervious gloves complying with an approved standard

should be worn at all times when handling chemical products if a risk

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assessment indicates this is necessary.

Eyes: Safety eyewear complying with an approved standard should be used when a

risk assessment indicates this is necessary to avoid exposure to lucid splashes

mists, gases or dusts. Recommended: splash goggles.

Skin: Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist

before handing this product.

Environmental exposure

controls: Emissions from ventilation or work process equipment should be checked to

ensure they comply with the requirements of environmental protection

legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable

levels.

Personal protective equipment (pictograms):



Section 9. Physical and Chemical Properties

Appearance

Physical state: Clear liquid Color: Colorless

Odor: None to slightly soapy

Odor threshold: Not available

pH: 11.3

Melting point: $0^{\circ}\text{C }(32^{\circ}\text{F})$

Boiling point: 101.11 to 102.22°C (214 to 216°F)

Flash point: Closed cup. Not applicable.

Burning time: Not applicable
Burning rate: Not applicable
Evaporation rate: Not applicable
Flammability (solid, gas): Not applicable

Lower and upper explosive

(flammable) limits:Not availableVapor pressure:Not applicableVapor density:Not applicableBurning time:Not applicableRelative density:1.07 to 1.09

Solubility: Easily soluble in cold water and hot water

Solubility in water: Not available

Partition coefficient

n-octanol/water: Not available
Auto-ignition temperature: Not available

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Decomposition temperature: Not available Viscosity: Not available Elemental Phosphorus: Not available

VOC content: 0% [calculated value for the mixture]

Section 10. Stability and Reactivity

Reactivity: No specific test data related to reactivity available for this product or its

ingredients

Chemical stability: The product is stable

Possibility of hazardous

reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No specific data

Incompatible materials: Extremely reactive or incompatible with the following materials: oxidizing

materials and acids.

Hazardous decomposition

products: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Storage: Store in accordance with local regulations. Store in original container protected

from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental

contamination.

Section 11. Toxicological Information

Information on toxicological effects

Information on the likely

routes of exposure: Dermal contact. Eye contact. Inhalation.

Potential acute health effects

Eve contact: Causes serious eve irritation

Inhalation: No known significant effects or critical hazards

Skin contact: Causes skin irritation

Ingestion: Irritating to mouth, throat, and stomach Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

Pain or irritation

Watering Redness

Inhalation: No specific data

Skin contact: Adverse symptoms may include the following:

Irritation Redness

Ingestion: No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

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Potential immediate effects: Not available Potential delayed effects: Not available

Long term exposure

Potential immediate effects: Not available Potential delayed effects: Not available Potential chronic health effects: Not available

General: No known critical effects or critical hazards
Carcinogenicity: No known critical effects or critical hazards
Mutagenicity: No known critical effects or critical hazards
Teratogenicity: No known critical effects or critical hazards
Developmental effects: No known critical effects or critical hazards
Fertility effects: No known critical effects or critical hazards

Numerical measures of toxicity
Acute toxicity estimates

Route	ATE value
Oral	19600 mg/kg

Section 12. Ecological Information

Ecotoxicity: Not available Aquatic Ecotoxicity: Not available

Section 13. Disposal Considerations

Waste Disposal:

The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Section 14. Transport Information

Not classified as dangerous in the meaning of: DOT, ADR / RID, IMDG / IMO, ICAO / IATA

Section 15. Regulatory Information

U.S. Federal regulations: TSCA 12(b) one-time export: No products were round

TSCA 12(b) annual export notification: No products were found

United States inventory (TSCA 8b): All components are listed or exempted.

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EPA Registration Number: Not available

Clean Air Act Section 112 (b)

Hazardous Air

Pollutants (HAPs): Not listed

SARA 302/304 Composition /

information on ingredients: No products were found

SARA 304 RQ: Not applicable

SARA 311/312

Classification: Immediate (acute) health hazard

State Regulations

Massachusetts: None of the components are listed New York: None of the components are listed New Jersey: None of the components are listed Pennsylvania: None of the components are listed

California Prop 65: Not available

Canada

Canadian NPRI: None of the components are listed
Canada inventory: All components are listed or exempted

Canadian PCP/DIN Number: Not available

International Regulations

International lists: Australia inventory (AICS): All components are listed or exempted

China inventory (IECSC): All components are listed or exempted

Japan inventory: Not determined

Korea inventory: All components are listed or exempted Malaysia inventory (EHS Register): Not determined

New Zealand Inventory of Chemicals (NZIoC): All components are listed or

exempted

Philippines inventory (PICCS): All components are listed or exempted

Taiwan inventory (CSNN): Not determined

Section 16. Other Information

History

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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