



Material Safety Data Sheet

BUFFER II

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

1. Product and Company Identification

Material name	BUFFER II
Patent Number	Not available
Revision date	April-05-2011
Version No.	2
CAS #	144-55-8
Manufacturer information	Clearwater™ International L.L.C. 4420 South Flores Road Elmendorf, TX 78112 US CHEMTREC 1-800-424-9300/703-527-3887
Emergency	CHEMTREC 1-800-424-9300/703-527-3887
Supplier information	Producers Service Corp. 109 South Graham St. Zanesville, OH 43701 US
Supplier emergency telephone number(s)	24hr customer Service 740-454-6253

2. Hazards Identification

Emergency overview	CAUTION AVOID CREATING DUST. Avoid breathing dust. Avoid prolonged contact with eyes, skin and clothing. Exposure to powder or dusts may be irritating to eyes, nose and throat. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA regulatory status	This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Eyes	Contact with eyes may cause irritation. Dust or powder may irritate eye tissue.
Inhalation	Do not breathe dust. Dust may be mildly irritating. Inhalation of dusts from this product may cause respiratory irritation with throat discomfort, coughing and sneezing.
Ingestion	Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Potential environmental effects	May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.



4. First Aid Measures

First aid procedures

Eye contact

Rinse with plenty of water. Get medical attention if irritation develops or persists.

Skin contact

Rinse skin with water. Get medical attention if irritation develops or persists.

Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.

Ingestion

Have victim rinse mouth thoroughly with water. Get medical attention if symptoms occur.

General advice

If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Flammable properties

Not a fire hazard. The product is not flammable.

Extinguishing media**Suitable extinguishing media**

Water. Water fog. Dry chemical, CO₂, water spray or regular foam.

Protection of firefighters**Protective equipment and precautions for firefighters**

Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

Personal precautions

Local authorities should be advised if significant spillages cannot be contained. Keep unnecessary personnel away. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods for containment

If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product.

Methods for cleaning up

Should not be released into the environment. Sweep up or gather material and place in appropriate container for disposal. Avoid dust formation. After removal flush contaminated area thoroughly with water. Collect dust or particulates using a vacuum cleaner with a HEPA filter.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

Do not breathe dust from this material. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid release to the environment. Handle and open container with care. Wash thoroughly after handling. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed.

Storage

Keep container tightly closed. Keep in a cool place. Keep in a well-ventilated place. Use care in handling/storage. Guard against dust accumulation of this material.



8. Exposure Controls / Personal Protection

Engineering controls	Ensure adequate ventilation, especially in confined areas. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn.
Personal protective equipment	
Eye / face protection	Wear dust goggles. Avoid contact with eyes.
Skin protection	Wear appropriate chemical resistant clothing. Wear suitable protective clothing and eye/face protection.
Respiratory protection	Wear respirator with dust filter. Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.
General hygiene considerations	Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	White powder.
Color	White
Odor	Odorless.
Odor threshold	Not available
Physical state	Solid.
Form	Crystalline. Solid
pH	Not available
Melting point	518 °F (270 °C) estimated
Freezing point	Not available
Boiling point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.1209 estimated
Relative density	1.1208 g/cm ³ estimated
Solubility (water)	94 g/L
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available



Bulk density 0.98 g/cm³ at 20 °C

Molecular formula OC(=O)[O-].[Na+]

10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions.

Incompatible materials Alkalis.

Hazardous decomposition products Carbon oxides.

11. Toxicological Information

Acute effects Acute LD50: 4220 mg/kg estimated, Rat, Oral

Sensitization Not expected to be hazardous by OSHA criteria.

Chronic effects Occupational exposure to respirable dust should be monitored and controlled.

Carcinogenicity Not expected to be hazardous by OSHA criteria.

Neurological effects Not expected to be hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

13. Disposal Considerations

Disposal instructions Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.



Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical No

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other Information

HMIS® ratings Health: 1
Flammability: 0
Physical hazard: 0

NFPA ratings Health: 1
Flammability: 0
Instability: 0

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Disclaimer

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MSDS sections updated

Product and Company Identification: Product and Company Identification
Physical & Chemical Properties: Form
Regulatory Information: United States