

Environmental Express
2345A Charleston Regional Pkwy
Charleston, SC 29492
843-881-6560

MSDS No: EE00100

Material Safety Data Sheet

1. Chemical Product and Company Identification

Product Name: SimpleWater

Applicable Catalog Numbers: D4003L, D4004L, D4006L, D4019L, D4300ML

Environmental Express
2345A Charleston Regional Pkwy
Charleston, SC 29492
(843) 881-6560 [8am – 6pm EST]

Emergency Contact
Chemtrec: 1-800-424-9300
or 011-703-527-3887

MSDS Number: EE00100

Chemical Name: Not applicable

CAS Number: Not applicable

Chemical Formula: Not applicable

Chemical Family: Not applicable

PIN: Not applicable

Intended Use: Determination of Biochemical Oxygen Demand (BOD)

Date of MSDS Preparation: 07-16-14

2. Hazards Identification

Emergency Overview:

Appearance: Turbid, white liquid

Physical State: Liquid

Odor: None

HMIS:

Health: 0

Flammability: 0

Reactivity: 0

Protective Equipment: See Section 8 for this information

Potential Health Effects:

Eye Contact: No effects are anticipated

Skin Contact: No effects are anticipated

Skin Absorption: No effects are anticipated

Target Organs: Not applicable

Ingestion: Very large doses may cause: gastrointestinal disturbances and central nervous system depression

Target Organs: None reported

Inhalation: No effects anticipated

Target Organs: Not applicable

Medical Conditions Aggravated: None reported

Chronic Effects: No effects anticipated

Cancer / Reproductive Toxicity Information:

This product does NOT contain any IARC listed chemicals

This product does NOT contain any NTP listed chemicals

Additional Cancer / Reproductive Toxicity Information: None reported

Toxicologically Synergistic Products: None reported

WHMIS Hazard Classification: Not applicable

WHMIS Symbols: Not applicable

3. Composition / Information on Ingredients

Ammonium Chloride

Percent Range: < 1.0 %

Percent Range Units: weight / weight

CAS No. : 12125-02-9

LD50: Oral rat LD₅₀ = 1650 mg/kg

LC50: None reported

TLV: 10 mg/m³

PEL: 10 mg/m³

Ingredient WHMIS Symbol: Not applicable

Calcium Chloride, Dihydrate

Percent Range: 1.0 – 10.0 %

Percent Range Units: weight / volume

CAS No. : 10035-04-8

LD50: Not classified

LC50: None reported

TLV: Not established

PEL: Not established

Ingredient WHMIS Symbol: Not applicable

Ferric Chloride, Hexahydrate

Percent Range: < 1.0 %

Percent Range Units: weight / weight

CAS No. : 10025-77-1

LD50: Oral Rat LD₅₀ = 1872 mg/kg

LC50: None reported

TLV: 1 mg/m³ (Fe)

PEL: 1 mg/m³ (Fe)

Ingredient WHMIS Symbol: Not applicable

Magnesium Sulfate, Heptahydrate

Percent Range: 1.0 – 5.0 %

Percent Range Units: weight / volume

CAS No. : 10034-99-8

LD50: None reported

LC50: None reported
TLV: Not established
PEL: Not established
Ingredient WHMIS Symbol: Not applicable

Potassium Phosphate, Dibasic

Percent Range: 1.0 – 10.0 %
Percent Range Units: weight / volume
CAS No. : 7758-11-4
LD50: Oral Rat LD₅₀ = 8000 mg/kg
LC50: None reported
TLV: Not established
PEL: Not established
Ingredient WHMIS Symbol: Not applicable

Potassium Phosphate, Monobasic

Percent Range: 1.0 – 10.0 %
Percent Range Units: weight / volume
CAS No. : 7778-77-0
LD50: Dermal Rabbit LD₅₀ = 4640 mg/kg
LC50: None reported
TLV: Not established
PEL: Not established
Ingredient WHMIS Symbol: Not applicable

Sodium Phosphate, Dibasic

Percent Range: 1.0 – 10.0 %
Percent Range Units: weight / volume
CAS No. : 7558-79-4
LD50: Oral Rat LD₅₀ = 17 g/kg
LC50: None reported
TLV: Not established
PEL: Not established
Ingredient WHMIS Symbol: Not applicable

Demineralized Water

Percent Range: 80.0 – 90.0 %
Percent Range Units: volume / volume
CAS No. : 7732-18-5
LD50: None reported
LC50: None reported
TLV: Not established
PEL: Not established
Ingredient WHMIS Symbol: Not applicable

4. First Aid Measures

Eye Contact: Flush eyes with water. Call physician if irritation develops.

Skin contact (First Aid): Wash skin with plenty of water.

Ingestion (First Aid): Give large quantities of water. Call physician immediately.

Inhalation: None required.

5. Fire Fighting Measures

Flammable Properties: Material will not burn.

Flash Point: Not applicable.

Method: Not applicable.

Flammability Limits:

Lower Explosion Limits (LEL): Not applicable.

Upper Explosion Limits (UEL): Not applicable.

Auto ignition Temperature: Not applicable.

Hazardous Combustion Products: This material will not burn.

Fire / Explosion Hazards: This product will not burn or explode.

Static Discharge: None reported.

Mechanical Impact: None reported.

Extinguishing media: Use media appropriate to surrounding fire conditions.

Fire Fighting Instruction: As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

6. Accidental Release Measures

Spill Response Notice: Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals. See Section 13, Special Instructions for disposal assistance.

Containment Technique: Absorb spilled liquid with non-reactive sorbent material. Stop spilled material from being released to the environment.

Clean-up Technique: Absorb spilled liquid with non-reactive sorbent material. Sweep up material. Place material in a plastic bag. Mark bag as “non-hazardous trash” and dispose of as normal refuse. Decontaminate the area of the spill with a soap solution.

Evacuation Procedure: Evacuate as needed to perform spill clean-up. If conditions warrant, increase the size of the evacuation.

DOT Emergency Response Guide Number: None.

7. Handling and Storage

Handling: Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product.

Storage: Keep container tightly closed when not in use.

8. Exposure Controls / Personal Protection

Engineering Controls: Maintain general industrial hygiene practices when using this product.

Personal Protective Equipment:

Eye Protection: Safety glasses with top and side shields.

Skin Protection: Not applicable.

Inhalation Protection: Adequate ventilation.

Precautionary Measures: Wash thoroughly after handling.

TLV: Not established.

PEL: Not established.

9. Physical and Chemical Properties

Appearance: Turbid, white liquid

Physical State: Liquid

Molecular Weight: Not applicable

Odor: None

pH: 7.1 – 7.6

Vapor Pressure: Not determined

Vapor Density (air = 1): Not determined

Boiling Point: ~ 100 °C (~ 212 °F)

Melting Point: Not determined

Specific Gravity / Relative Density (water = 1; air = 1): 1.057

Evaporation Rate (water = 1): 0.72

Volatile Organic Compounds Content: Not applicable

Coefficient of Water / Oil: Not applicable

Solubility:

Water: Soluble

Acid: Not determined

Other: Not determined

Metal Corrosivity:

Steel: Not determined

Aluminum: Not determined

10. Stability and Reactivity

Chemical Stability: Stable when stored under proper conditions.

Conditions to Avoid: Extreme temperatures.

Reactivity / Incompatibility: None reported.

Hazardous Decomposition: Heating to decomposition releases: phosphorus oxides, sulfur oxides.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Product Toxicological Data:

LD50: None reported

LC50: None reported

Dermal Toxicity Data: None reported

Skin and Eye Irritation Data: None reported

Mutation Data: None reported

Reproductive Effects Data: None reported

Ingredient Toxicological Data: Ammonium Chloride: Oral rat LD₅₀ = 1650 mg/kg; Ferric Chloride, Hexahydrate: Oral Rat LD₅₀ = 1872 mg/kg; Potassium Phosphate, Dibasic: Oral Rat LD₅₀ = 8000 mg/kg; Potassium Phosphate, Monobasic: Dermal Rabbit LD₅₀ = 4640 mg/kg; Sodium Phosphate, Dibasic: Oral Rat LD₅₀ = 17 g/kg.

12. Ecological Information

Product Ecological Information: No ecological data available for this product.

Ingredient Ecological Information: No ecological data available for the ingredients of this product.

13. Disposal Considerations

Special Instructions (Disposal): Open cold water tap completely, slowly pour the material to the drain. Allow cold water to run for 5 minutes to completely flush the system.

Empty Containers: Rinse 3 times with an appropriate solvent. Dispose of empty container as normal trash.

NOTICE (Disposal): These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information.

14. Transport Information

TDG:

Proper Shipping Name: Not currently regulated

Hazard Class: Not applicable

PIN: Not applicable

Group: Not applicable

Subsidiary Risk: Not applicable

Additional Information: There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is NOT in a set or kit, the classification given above applies. If the item IS part of a set or kit, the classification would change to the following: UN3316 Chemical Kit, Class 9, PG II or III. If the item is not regulated, the Chemical Kit classification does not apply.

15. Regulatory Information

National Inventories:

Canadian Inventory Status: All ingredients of this product are DSL listed. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

16. Other Information

References: Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. Pp. 2332-2983. TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992. Technical Judgment. In-house information.

17. User Responsibility

Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communications standards and regulations.