



# MATERIAL DATA SAFETY SHEET

1. Identification of the substance/preparation and company/undertaking.

**NAME**      The DEFENDER

**MSDS No**   The DEFENDER DCR-01

**Synonyms:** bacterial product

**Common uses:** For use in drains along with patent pending device holder

**Supplied by:**    **Drain-Net**  
                         **PO Box 203**  
                         **Stanton, NJ 08885**

**Tel: 908-672-5948**

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2. Composition/information on ingredients.

Components not listed are either non-hazardous or in concentration of less than 1%

Cocamide	CAS	68140-00-1
Perfume Blend	CAS	N/A
Magnesium Stearate	CAS	557-04-0
Viable Bacteria Culture	CAS	N/A
Corn Starch	CAS	N/A
P-85	CAS	25155-30-0
Dendritic Salt	CAS	7647-14-5
Neem Oil	CAS	8002-65-1

<u>Hazardous Ingredients / Impurity</u>	<u>% Conc.</u>	<u>Classification</u>	<u>Exposure</u>	<u>CAS</u>	<u>EINECS</u>
None					

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3. Hazards identification.

**Classification:**

Bacterial culture non pathogenic

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4. First Aid measures.

May cause irritation to the eyes, skin and if ingested

<u>Exposure Route</u>	<u>Symptom</u>	<u>Treatment</u>
<b>Inhalation</b>	No irritation	No treatment needed
<b>Skin Contact</b>	May cause irritation	Wash skin with soap and water after contact. If irritation persists seek medical attention.
<b>Eye Contact</b>	Causes irritation	Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention.

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**Ingestion** Irritation of gastrointestinal tract, nausea, diarrhea  
Wash out mouth with water. Do not induce vomiting. If patient is conscious, give several glasses of water to drink. If patient feels unwell seek medical attention.

**Immediate Treatment / Antidote:** symptomatic treatment

**Delayed Effects:** Not Known

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### 5. Fire Fighting measures.

**Suitable Extinguishers:** dry chemicals, CO<sub>2</sub>, water spray, or foam.

**Hazardous Combustion Products:** Non in normal use

**Special Equipment for Fire Fighting:** self-contained breathing apparatus

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### 6. Accidental Release measures.

**Personal Precautions:** Wear appropriate PPE - See section 8

**Environmental Precautions:** The bacteria are naturally occurring and should not pose an environmental risk.

**Clean up Procedure:** Pick up material and place in its original container.

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### 7. Handling & Storage.

**Handling** **Ventilation:** General ventilation.

**Storage** **Temperature range:** 0 deg C to 40 deg C for product viability only.

**Humidity range:** less than 40% for long term exposure of unprotected product for product viability only.

**Keep away from:** See section 10

**Suitable storage Media:** original container with closed lid

**Precautions against static discharge:** recommended.

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### 8. Exposure Controls/personal protection.

**Exposure standards:**

Component	LTEL (8h TWA)	STEL (15 mins)	Type
None			

**Personal Protective Equipment:**

**Respiratory:** Mask (under normal use should not be necessary)

**Hand:** Wash hands after use. Gloves recommended

**Eye:** Safety glasses or goggles recommended. (under normal use should not be necessary)

**Skin:** Wash after exposure. Full suit, boots, face shield are recommended under exceptional circumstances such as fire, or for prolonged contact with bulk quantities. (under normal use should not be necessary)

**Environmental controls:** Users should be aware of environmental considerations and their duties under the environmental protection act.

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**Hygiene Measures:** Always wash thoroughly after handling chemicals.

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### 9. Physical & Chemical Properties.

<b>Appearance</b>	Small round disc form, blue
<b>Odor</b>	Ocean Breeze
<b>pH</b>	N/A
<b>Boiling Point/range</b>	N/A
<b>Melting Point/range</b>	51°C – 53°C
<b>Flash point</b>	Not Known
<b>Flammability</b>	Not flammable
<b>Autoignition temperature</b>	Not Applicable
<b>Explosive limits</b>	Not Known
<b>Oxidizing Properties</b>	Not Known
<b>Vapour Pressure</b>	Not Applicable
<b>Relative density</b>	Not Known
<b>Solubility in water</b>	Dissolves
<b>Solubility in solvent</b>	Not Known
<b>Partition coefficient</b>	Not Applicable
<b>Viscosity</b>	Not Applicable
<b>Vapour density</b>	Not Applicable
<b>Evaporation rate</b>	Not Applicable
<b>Conductivity</b>	Not Applicable

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### 10. Stability & Reactivity.

**Stability:** Stable under normal storage and handling conditions.

**Materials to avoid:** Strong oxidizing agents

**Hazardous decomposition products:** Thermal decomposition of cocamide may produce carbon monoxide, carbon dioxide, ammonia, and oxides of nitrogen

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### 11. Toxicological Information.

**Toxicological effects:** Low Acute oral toxicity although ingestion will cause irritation of the gastrointestinal tract and may result in nausea and diarrhea. May cause mild mechanical irritation to eyes and skin. May cause irritation from allergic reaction, especially to people that have a history of allergic reaction.

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### 12. Ecological Information.

**Environmental Effects:** Minimal impact under normal conditions of use and storage. The bacterial cultures are naturally occurring soil type organisms.

**Mobility:** disperses in water

**Degradability:** Biodegradable

**Bioaccumulative potential:** Not Known

**Aquatic Toxicity:** Not Known

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### 13. Disposal considerations.

The DEFENDER

**Substance:** Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

**Container:** As substance.

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**14. Transport Information.** Not regulated for transport

<b>UN number</b>	<b>Class</b>
<b>Primary Hazard</b>	<b>Subsidiary Hazard</b>
<b>Packing Group</b>	<b>Emergency Action Code</b>
<b>H.I. Number</b>	<b>Marine Pollutant</b>
<b>Proper Shipping name</b> Water treatment compounds, bacterial culture.	

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**15. Regulatory Information.**

**Label Name** The Defender  
**Symbols** no risk or safety phrases stipulated  
**Risk Phrases** no risk or safety phrases stipulated  
**Safety Phrases** no risk or safety phrases stipulated  
**Additional labeling:** NA

**Use of this material may be governed by the following regulations:** - (users are advised to consult these regulations for further information).

The information contained in this data sheet does not constitute an assessment of workplace risks.

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**16. Other Information.**

This material must not be used for direct contact with food:

Further details may be available upon request from your local Pure Drain Defender, LLC distribution site.

Other: The product has been shown to be free of Salmonella and Shigella using the procedures outlined by AOAC and USDA.

**Legal Disclaimer:**

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