

MATERIAL SAFETY DATA SHEET

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For Emergency CALL-CHEMTREC-Day or Night: 800-424-9300 or Outside USA: 202-483-7616 COLLECT

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

NAME MICROBE-LIFT/Nite Out II

Synonyms: bacterial products.

Common uses: Ammonia reduction bacterial aide

2. Composition/information on ingredients.

Contains:

Nitrifier bacteria	40%	CAS N/A
Water	60%	CAS 7732-18-5
Sodium bicarbonate	1%	CAS 144-55-8
Preservative	less than 1%	CAS N/A

<u>Hazardous ingredient / impurity</u>	<u>% Conc.</u>	<u>Classification</u>	<u>Exposure</u>	<u>CAS</u>	<u>EINECS</u>
None					

3. Hazards identification.

Classification:

Bacterial culture non pathogenic, non hazardous.

Irritating to skin, risk of serious damage to eyes.

4. First Aid measures.

Immediate medical attention is required in case of exposure by inhalation, contact with skin or eyes, or if swallowed.

<u>Exposure Route</u>	<u>Symptom</u>	<u>Treatment</u>
Inhalation	Same as exposure to dust	Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete seek medical attention.
Skin Contact	Redness and irritation	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of the skin is damaged or if irritation persists seek medical attention.
Eye Contact	Irritation	Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention. Do not delay.

Ingestion	Irritation of gastrointestinal tract, nausea, diarrhea	Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell seek medical attention.
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Immediate Treatment / Antidote: symptomatic treatment

Delayed Effects: bacterial infection

5. Fire Fighting measures.

Suitable Extinguishers: water

Unsuitable Extinguishers:

Hazardous Combustion Products: none in normal use. Fire creates fumes including carbon dioxide and sulphur dioxide.

Special Equipment for Fire Fighting: self contained breathing apparatus

6. Accidental Release measures.

Personal Precautions: Wear appropriate PPE - See section 8

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

Clean up Procedure: Vacuum or sweep up avoiding generation of mist. Place in suitable labeled containers and hold for waste disposal. Wash spill site with water. If bacterial contamination is an issue use chlorine to kill the bacillus spores.

7. Handling & Storage.

Handling **Ventilation:** Good general ventilation.

Recommended procedures & equipment: avoid creating mist

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

Humidity range: all.

Keep away from: See section 10

Suitable storage Media: original container with closed lid

Precautions against static discharge: recommended.

8. Exposure Controls/personal protection.

Exposure standards:

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

Personal Protective Equipment:

Respiratory: Dust mask

Hand: Wash hands after use. Gloves recommended

Eye: Safety glasses or goggles recommended.

Skin: Wash after exposure. Overalls and boots recommended

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

Hygiene Measures: Always wash thoroughly after handling chemicals.

9. Physical & Chemical Properties.

Appearance	Water like liquid, brown-pink
Odor	Yeast-like
pH	Neutral 6.0 to 9.0
Boiling Point/range	Similar to water
Melting Point/range	Similar to water
Flash point	Not Applicable
Flammability	Not flammable under normal conditions of storage and handling.
Autoignition temperature	Not Applicable
Explosive limits	Not applicable
Oxidizing Properties	None
Vapour Pressure	Similar to water
Relative density	0.6 to 0.8
Solubility in water	Soluble. Disperses in water.
Solubility in solvent	Not soluble
Partition coefficient	Not Applicable
Viscosity	Similar to water
Vapor density	Similar to water
Evaporation rate	Similar to water
Conductivity	Same as water

10. Stability & Reactivity.

Stability: Stable under normal storage and handling conditions.

Conditions to avoid: Accumulations of product in enclosed spaces and generation of mist. Avoid contact with oxidizing chemicals.

Materials to avoid: Acids and Alkalies may inactivate the bacterial cultures.

Hazardous decomposition products: oxides of carbon and sulphur

11. Toxicological Information.

Toxological 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, skin and mucous membranes. May cause irritation from allergic reaction, especially to people that have a history of allergic reaction.

LD_{Lo}	
LD₅₀	Greater than 2000 mg/kg
oral-rat	skin-rabbit

12. Ecological Information.

Environmental Effects: Minimal impact under normal conditions of use and storage. The bacterial cultures are naturally occurring soil type organisms. The other components are unlikely to bio accumulate and are biodegradable.

Mobility: disperses in water

Degradability: contents are biodegradable
Bioaccumulative potential: Not Likely
Aquatic Toxicity: Not Known

13. Disposal considerations.

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

14. Transport Information. Not regulated for transport

UN number	Class
Primary Hazard	Subsidiary Hazard
Packing Group	Emergency Action Code
H.I. Number	Marine Pollutant
Proper Shipping name	Waste water treatment compounds, bacterial culture.

15. Regulatory Information.

Label Name MICROBE-LIFT/Nite Out II
Symbols no risk or safety phrases stipulated
Risk Phrases no risk or safety phrases stipulated
Safety Phrases no risk or safety phrases stipulated
E.C. No
Additional labeling:

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.

16. Other Information.

This material must not be used for direct contact with food:
Further details may be available upon request from Ecological Laboratories, Inc.
Other: The product has been shown to be free of Salmonella and Shigella using the procedures outlined by AOAC and USDA.

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