

MATERIAL SAFETY DATA SHEET
PRODUCT: MICROBE-LIFT NITE OUT II

SECTION I: IDENTIFICATION

Manufactures Name: Ecological Laboratories, Inc.
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SECTION II: COMPOSITIONS/ INGREDIENTS

<u>PRODUCT</u>	<u>CAS#</u>	<u>%</u>
Nitrifier bacteria	CAS N/A	40%
Water	CAS 7732-18-5	60%
Sodium bicarbonate	CAS 7732-18-5	1%
Preservative	CAS N/A	less than 1%

SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance	Water like liquid, brown-pink color
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

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:	Water
Special Fire Fighting Equipment:	Self contained breathing apparatus.
Unusual Fire & Explosion Hazards:	N/A
Hazardous Combustion Products:	None in normal use. Fire creates fumes including carbon dioxide and sulphur dioxide.
Fire-Fighting Equipment/ Procedure:	Standard fire fighting equipment.

SECTION V: REACTIVITY DATA

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.
Incompatibility (materials to avoid):	Acids and Alkalies may inactivate the bacterial culture
Hazardous Decomposition products:	Oxides of carbon and sulphur.
Hazardous Polymerization:	Will not occur.

SECTION VI: HEALTH HAZARD DATA

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 a large area 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.

Immediate Treatment / Antidote: symptomatic treatment

Delayed Effects: bacterial infection

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

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

Disposal Consideration:	Substance: Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.
	Container: As substance.
Temperature Range:	0° C to 20° C for product viability only. The lower the temperature the longer the shelf life is going to be.
Humidity range:	All range.
Other Precautions:	Keep out of reach of children.
Suitable storage Media:	Original container with closed lid.
Precautions against static discharge:	Recommended.

SECTION VIII: CONTROL MEASURES

Respiratory:	Dust Mask
Hand:	Wash hand 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
Hygiene Measures:	Always wash thoroughly after handling chemicals.

SECTION IX: 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, 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
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SECTION X: 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

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