

BIO-RO.

Envirollangies\*\*

M.S.D.S.

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

NAME BIO- FLO MSDS 14 Envirologics

Laboratories

**Synonyms**: Cultured Living Bacteria

**Common uses**: Liquid odor control and degreaser/grease trap, drain and septic maintenance.

**Manufacturer:** Envirologics Laboratories

Box 831414 Tel: 877.224.6356 Maricamp, Florida Fax: 407.264.8469

34483-1414 Emergency No. (Office hours): 877.224.6356 Ext 707

Emergency No. (24 hours): 877.224.6356 Ext 709

### 2. Composition/information on ingredients.

Contains:

Concentrated Bacterial Cultures CAS 48% N/A 7732-18-5 Water 33% CAS Odor Control #10175 3.5% CAS N/A Acusol ™ Op301 Emulsion 3.5% CAS N/A

Nonylphenol Polyethylene Glycol Ether 10% CAS 127087-87-0
Preservative less than 1% CAS 52-51-7
Odor Control #10123 1% CAS N/A

<u>Hazardous ingredient / impurity % Conc.</u> <u>Classification</u> <u>Exposure</u> <u>CAS</u> <u>EINECS</u>

None

# 3. Hazards identification.

### Classification:

Bacterial culture non pathogenic, surfactant blend non hazardous.

### 4. First Aid measures.

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

Exposure Route Symptom Treatment

**Inhalation** Same as exposure to mist 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.

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Eye Contact Irritation Irrigate thoroughly with water for at

least 10 minutes. Obtain medical

attention.

**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: Avoid Contact.

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 labelled 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:** None

**Hand:** Wash hands after use.

Eye: None

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### **L2100C USA**

**Skin:** Wash after exposure.

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

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

9. Physical & Chemical Properties.

**Appearance** Water like liquid, white

Odor
pH
Neutral 6.0 to 9.0
Boiling Point/range
Similar to water
Melting Point/range
Similar to water
Not Applicable

**Flammability** Not flammable under normal conditions of storage and handling.

Autoignition temperatureNot ApplicableExplosive limitsNot 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

Partition coefficient

Viscosity

Vapor density

Evaporation rate

Conductivity

Not soluble

Not Applicable

Similar to water

Similar to water

Similar to 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 oxidising 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 .LDLo

LD<sub>50</sub> Greater than 2000 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

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### **L2100C USA**

**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 Water treatment compounds, bacterial culture.

#### 15. Regulatory Information.

Label Name BIO-SYSTEMS L2100C

Symbols no risk or safety phrases stipulated no risk or safety phrases stipulated Safety Phrases no risk or safety phrases stipulated

E.C. No

Additional labelling:

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 your local Envirologics Laboratories 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:**

The above information in this MSDS was obtained from sources which we believe are reliable.