

## SAFETY DATA SHEET

According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date: 09/09/2021

Version 1.3

### SECTION 1. Identification

#### Product identifier

Catalog number: P5M010405-500, P5M011406-500, P5M011406-1L

Product name : PurMa™ Micospray (1X), PurMa™ Mycospray Solution (10X)

Size : 500ml ( Spray); 500 ml, 1000 ml(10X Solution)

Category : Mycoplasma Detection and Elimination Reagents

#### Relevant identified uses of the substance or mixture:

Identified uses: Chemical for microorganism elimination. Laboratory use only.

#### Details of the supplier of the safety data sheet

##### Company information:

PurMa Biologics LLC,

801 SW89th St, Suite A2

Oklahoma City, OK 73139

United States of America

**General Inquiries:** +1-877-720-6116, Monday to Friday, 9:00 AM to 5:00 PM central Time (GMT-5)

### SECTION 2. Hazards identification

#### GSH Classification of the substance or mixture

Flammable Liquid (Category 3)

Skin Irritant (Category 2)

Serious eye damage (Category 1)

Harmful if swallowed (Category 4)

#### GHS-Label elements including precautionary statements

Pictogram:



Harmful in contact with skin (Category 4)  
May be fatal if swallowed and enters airways (Category 2)  
Toxic to aquatic life with long lasting effect (Category 2)

**Signal word:** Danger

**Hazard statement(s):**

H302 ----- Harmful if swallowed  
H305 ----- May be fatal if swallowed and enters airways  
H312 ---- Harmful in contact with skin  
H315 ---- Causes skin irritation.  
H318 ---- Causes serious eye damage.  
H373 ----- Causes damage to organs through prolong or repeated exposure  
H411 ----- Toxic to aquatic life with long lasting effect

**Precautionary statements:**

P273 ----- Avoid release to the environment.  
P280 ----- Wear protective gloves/protective clothing/eye protection/face protection  
P301 + P310 + P330 IF SWALLOWED ----- Immediately call a POISON CENTER/doctor. Rinse mouth  
P302+ P352---- IF ON SKIN: Wash with plenty of soap and water  
P314 ----- Get medical advice/ attention if you feel unwell.  
P305 + P351 + P338 -- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P362 ----- Take off contaminated clothing and wash before reuse.  
P391 ----- Collect spillage.  
P405 ----- Store locked up.  
P501 ----- Dispose of contents/ container to an approved waste disposal plant.

**HMIS Rating:**

Health hazard: 3  
Flammability: 2  
Physical Hazard: 0

**NFPA Rating:**

Health hazard: 3  
Fire Hazard: 2  
Reactivity Hazard: 0

**SECTION 3. Composition/information on ingredients:**

**Composition:** Mixture of different organic and/or inorganic chemicals includes alkaline detergent.

Hazardous components:

Name of the component	CAS Number	Percentage
1-Pentanol	71-41-0	=/< 1%
Butanol	71-36-3	=/< 1%
Glutaraldehyde	111-30-8	< 1%

Further information: Proprietary

#### SECTION 4. First aid measures

##### Description of first-aid measures:

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes

**Inhalation:** Move to fresh air. If breathing becomes difficult, give oxygen

**Ingestion:** Clean mouth with water and afterwards drink plenty of water

##### Most important symptoms and effects, both acute and delayed:

Nausea, vomiting, headache, dizziness, drowsiness, redness of eyes, rash, blister, severe cough, asthma attack, stomach ache, may cause burn.

**Notes to Physician:** Treat symptomatically.

#### SECTION 5. Fire-fighting measures

**Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Cool closed containers exposed to fire with water spray.

**Unsuitable Extinguishing Media:** No information available

**Specific Hazards Arising from the Chemical:** Flammable. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

**Hazardous Combustion Products:** Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

**Protective Equipment and Precautions for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### SECTION 6. Accidental release measures

**Personal Precautions:** Wear appropriate protective equipment as specified in Section 8

**Methods and Materials for Containment and Cleaning Up:** Contain and clean up spill immediately, prevent from entering floor drains. Contain liquids using absorbents. Shovel all spill materials into disposal drum. Scrub spill area with detergent, flush with copious amounts of water.

**Environmental Precautions:** Prevent discharge into the environment. Stop leakage and do not allow material to enter drains

## **SECTION 7. Handling and storage**

**Precautions for safe handling:** Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage:** Store in a tightly closed container at temperature +15°C to +25°C (+59°F to +77°F).

## **SECTION 8. Exposure controls/personal protection**

**Exposure limit(s):** Contains no substances with occupational exposure limit values.

**Engineering Controls:** A system of local and/or general exhaust is recommended to keep employee exposures low. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

### **Individual protection measures:**

**Eye/face protection:** Use chemical safety goggles and/or a full-face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection:**

For conditions of use where exposure to the dust or mist is apparent, a full-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator



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**SECTION 9. Physical and chemical properties**

Physical state	:	Liquid
Color	:	Transparent
Odor	:	Characteristic
Odor Threshold	:	No information available.
pH	:	No information available.
Melting point	:	No information available.
Boiling point	:	No information available.
Flash point	:	No information available
Evaporation rate	:	No information available.
Flammability	:	Flammable
Lower explosion limit:		No information available.
Upper explosion limit:		No information available.
Vapor pressure	:	No information available.
Relative vapor density:		No information available.
Density	:	No information available.
Relative density	:	No information available.
Water solubility	:	No information available
Partition coefficient	:	No information available
Autoignition temperature:		No information available.
Decomposition temperature	:	No information available
Viscosity, dynamic:		No information available.
Explosive properties:		No information available
Oxidizing properties:		No information available

Bulk density: No information available

## SECTION 10. Stability and reactivity

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** Vapors may form explosive mixture with air.

**Conditions to avoid:** Heat, flames and sparks.

**Incompatible materials:** Alkali metals, Ammonia, Oxidizing agents, Peroxides

**Hazardous Decomposition Products:** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

## SECTION 11. Toxicological information

### Acute toxicity:

**Symptoms:** Nausea, vomiting, headache, dizziness, drowsiness, redness of eyes, rash, blister, severe cough, asthma attack, stomach ache, may cause burn.

### Likely route of exposure:

Eye contact, Skin contact, Ingestion

### Available data on toxicological effects:

LD50 Oral - Rat - 134 mg/kg (Glutaraldehyde); LD50 Oral -Rat >2000 mg/kg (1-Pentanol)

Inhalation:

LC50 Inhalation - Rat - 4 h - 0.48 mg/l (Glutaraldehyde) (OECD Test Guideline 403)

LD50 Dermal - Rat - > 2,500 mg/kg (Glutaraldehyde); LD50-Rabbit- >2000 mg/kg (1-Pentanol)

### Delayed toxicity:

**Respiratory sensitization:** May cause severe asthma

**Skin sensitization:** May cause skin hypersensitivity reaction

**Mutagenicity:** No information available

**Reproductive toxicity:** No information available

**Teratogenicity:** No information available

### Carcinogenicity:

**IARC:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**ACGIH:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by ACGIH

## **SECTION 12. Ecological information**

**Ecotoxicity:** Toxic to aquatic life.

### **Available data:**

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 3.5 mg/l - 96.0 h (Glutaraldehyde)

Toxicity to daphnia and other aquatic invertebrates EC50 - *Daphnia magna* (Water flea) - 0.75 mg/l - 48 h (Glutaraldehyde)

Toxicity to algae EC50 - *Desmodesmus subspicatus* (green algae) - 0.61 mg/l - 72 h (Glutaraldehyde)

NOEC - *Desmodesmus subspicatus* (green algae) - 0.025 mg/l - 72 h (Glutaraldehyde)

Toxicity to Freshwater Algae EC50: = 1100 mg/L, 24h (*Desmodesmus subspicatus*)-- 1-Pentanol

Toxicity to Freshwater Fish LC50: 370 - 490 mg/L, 96h static (*Oncorhynchus mykiss*) LC50: = 650 mg/L, 96h static (*Lepomis macrochirus*) LC50: = 530 mg/L, 96h static (*Brachydanio rerio*)- 1-Pentanol

Toxicity to Water Flea EC50: = 341 mg/L, 48h (*Daphnia magna*)- 1-Pentanol

**Persistence and degradability:** No information available.

**Bio accumulative potential: Partition:** No information available.

**Mobility in soil:** No information available.

**Additional ecological information:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

## **SECTION 13. Disposal considerations**

**Product:** Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging:** Dispose of as unused product.

## **SECTION 14. Transport information**

**Land transport (DOT):** Not classified as dangerous in the meaning of transport regulations.

**Air transport (IATA)** Not classified as dangerous in the meaning of transport regulations.

**Sea transport (IMDG):** Not classified as dangerous in the meaning of transport regulations.

**SECTION 15. Regulatory information United States of America**

**SARA 313 Components:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 311/312 Hazards:**

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**Clean Water Act:** Toxic to aquatic life:

Name of the component	CAS Number
Glutaraldehyde	111-30-8

**Massachusetts Right To Know Components:**

Name of the component	CAS Number
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1-Pentanol	71-41-0
Butanol	71-36-3
Glutaraldehyde	111-30-8

**Pennsylvania Right To Know Components:**

Name of the component	CAS Number
1-Pentanol	71-41-0
Butanol	71-36-3
Glutaraldehyde	111-30-8

**New Jersey Right To Know Components:**

Name of the component	CAS Number
1-Pentanol	71-41-0
Butanol	71-36-3
Glutaraldehyde	111-30-8

**California Prop 65 Components**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**SECTION 16. Other information**

**Key or legend to abbreviations and acronyms used in the safety data sheet.**

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

**Disclaimer:** For research and developmental use only. Not for drug, household, or other uses.

The information contained herein is based on the present state of our knowledge. It characterizes the product regarding appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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