

# SAFETY DATA SHEET

According to the (US) Hazard Communication Standard (29 CFR 1910.120)



Revision Date: 12/11/2021

Version 1.3

## SECTION 1. Identification

### Product identifier

Catalog number: P3R014205  
Product name : PurMa™ Whole Tissue Cryoprotective Media With DMSO  
Size : 100 ml  
Category : Tissue CultureMedium

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

Identified uses: Medium for Mammalian tissue culture in 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 according to 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4), H227

Harmful if swallowed (Category 4), H302

### Pictogram:



### Signal word:

Danger, Warning

### GHS-Label elements including precautionary statements

#### Hazard statement(s)

H227 Combustible liquid.  
H302 Harmful if swallowed

#### Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P280 Wear protective gloves/ eye protection/ face protection.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/ container to an approved waste disposal plan

**HMIS Rating:**

Health hazard: 1  
Flammability: 1  
Reactivity: 0

**NFPA Rating:**

Health hazard: 1  
Flammability: 1  
Reactivity Hazard: 0

**Hazards not otherwise classified (HNOC) or not covered by GHS**

None

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

Liquid tissue culture medium with a mixture of components that may include, but is not limited to: inorganic salts, vitamins, amino acids, carbohydrates and other nutrients.

Contains DMSO that used as a cryoprotectant.

This product contains substances which may be hazardous to health, but at their given concentrations, are not considered overtly detrimental when handled, stored and disposed of by qualified personnel trained in laboratory procedures utilizing recommended Personal Protection Equipment (PPE) in accordance with international safe laboratory practices, protocols, guidelines and regulations.

**Hazardous Component**

Component	Cas Number	Classification	Percentage
DMSO	67-68-5	Flam. Liq. 4; H227	5-15%

**Other Information:**

Proprietary

**SECTION 4. First aid measure**

**Description of first-aid measures:**

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**Skin contact:** After skin contact wash off with plenty of water. Remove contaminated clothing.

**Eye contact:** After eye contact rinse out with plenty of water.

**Ingestion:** Rinse mouth with water. Consult doctor if feeling unwell. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:** We have no report of any toxic symptoms.

**Indication of any immediate medical attention and special treatment needed:** No information available.

## **SECTION 5. Fire-fighting measures**

**General:** Wear Self-Contained breathing apparatus in pressure demand, MSHA/NIOSH approved. During a fire, irritating and toxic gases may be generated by thermal decomposition.

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

**Advice for firefighters:** Wear self-contained breathing apparatus and wear full protective gear.

**Flash point:** 89°C (192°F).

**Autoignition temp:** 300-302°C (572-575°F)

**Special hazards arising from the substance or mixture:** Contains combustible material. Containers may explode when heated highly. Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous Combustion Products:** May generate Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulfur oxides, Sulfides

**Further information:** Use water spray to cool unopened containers

## **SECTION 6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Avoid breathing vapors, mist or gas. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For more information about personal protection see section 8.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

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

**Precautions for safe handling:** Wear personal protective equipment. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. No smoking. Take measures to prevent the buildup of electrostatic charge. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. **Conditions for safe storage, including any incompatibilities:** Keep containers tightly. Store at temperature -80°C (-112°F). Keep away from heat and sources of ignition.

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

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

**Engineering measures:** The use and storage of this material requires user to maintain and make available appropriate eyewash and safety shower facilities. Wash hands before breaks and at the end of workday. Use fume hood or other appropriate ventilation method to keep airborne concentrations as low as possible.

**Eye/face protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**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:**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

**Environmental exposure controls:** Do not let product enter drains. Materials should be handled in a certified biosafety cabinet.

**SECTION 9. Physical and chemical properties**

Physical state : Liquid  
Color : No information available.  
Odor : No information available.  
PH Range : No information available.  
Melting point : No information available.  
Boiling point : No information available.  
Flash point Evaporation rate : No information available.  
Vapor pressure : No information available.  
Relative vapor density : No information available.  
Density : No information available.  
Relative density : No information available.  
Solubility : Water soluble.  
Explosive properties : Not classified as explosive.  
Explosive properties : No information available

Hazardous Polymerization: No information available

**Reactivity:** No information available

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

**Possibility of hazardous reactions:** Hazardous reaction has not been reported

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

**Incompatible materials:** Strong oxidizing agents, Strong acids, Strong bases, Alkali metals

**Hazardous decomposition product:** Carbon Monoxide, Carbon Dioxide, Sulphur oxides

**SECTION 10. Stability and reactivity**

## **SECTION 11. Toxicological information**

**Acute toxicity:** No data available

**Toxicity due to Inhalation:** May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

**Toxicity due to dermal contact:** May be harmful if absorbed through the skin.

**Skin corrosion/irritation:** May cause skin irritation.

**Serious eye damage/eye irritation:** May cause eye irritation

**Toxicity due to Ingestion:** May be harmful if swallowed

**Respiratory or skin sensitization:** No data available

**Germ cell mutagenicity:** No data available

**Carcinogenicity:** No data available

**Reproductive toxicity:** No data available

**Specific target organ toxicity - single exposure:** No data available

**Specific target organ toxicity - repeated exposure:** No data available

**Aspiration hazard:** No data available

## **SECTION 12. Ecological information**

**Ecotoxicity:** No information available.

**Biodegradability:** No information available.

**Bioaccumulation:** No information available.

**Mobility in soil:** Will likely be mobile in the environment due to its water solubility..

**Results of PBT and PvB assessment:** No information available

## **SECTION 13. Disposal considerations**

**Waste treatment methods:** The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

## **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 in United States of America**

**SARA 313:** 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:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 311/312 Hazards:** Fire Hazard, Chronic Health Hazard

### **Massachusetts Right to Know Act**

No components are subject to the Massachusetts Right to Know Act.

### **Pennsylvania Right To Know Components:**

Dimethyl sulfoxide                      CAS-No: 67-68-5                      Revision Date: 2007-03-01

### **New Jersey Right To Know Components:**

Dimethyl sulfoxide                      CAS-No: 67-68-5                      Revision Date: 2007-03-01

### **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.

### **U.S. Department of Transportation:**

Reportable Quantity (RQ):                      N

DOT Marine Pollutant:                      N

DOT Severe Marine Pollutant:                      N

U.S. Department of Homeland Security: This product does not contain any DHS chemicals.

## **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 R&D 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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