



www.AVBioInnovation.com  
(262) 797-0323



# Isotonic Medium S™

Cat No: IMS10

For in vitro use only

## SAFETY DATA SHEET

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012  
06/30/2016 EN (English) 3/4

### Section 1: Identification

**Product Name: Isotonic Medium S**

**Cat No: IMS10**

**Chemical Name/Synonyms:** Not Applicable

**Recommended Use** Laboratories.

**Uses advised against** Not for food, drug, pesticide or biocidal product use.

**Company:** AV BioInnovation, Michigan, USA

**In emergency call I USA 911.**

**Contact phone#:** 1 262 797 0323

### Section 2: Hazard(s) Identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Not classified.

#### 2.2. Label elements

##### GHS-US labelling

No labelling applicable.

#### 2.3. Other hazards

No additional information available.

#### 2.4. Unknown acute toxicity (GHS US)

No additional information available.

### Section 3: Composition/ Information on Ingredients

#### 3.1. Substance

Not applicable.

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
None by OSHA HazCom 2012 criteria.			

### Section 4: First-Aid Measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation :	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact :	If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.
First-aid measures after eye contact :	In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
First-aid measures after ingestion :	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation :	May cause respiratory tract irritation.
Symptoms/injuries after skin contact :	May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact :	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion :	May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

### Section 5: Fire-Fighting Measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Treat for surrounding material.

Unsuitable extinguishing media : None known.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

#### 5.3. Advice for firefighters

Protection during firefighting : Keep upwind of fire. Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

### Section 6: Accidental Release Measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

#### 6.2. Methods and material for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Scoop up material and place in a disposal container.

#### 6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

### Section 7: Handling and Storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing vapour or mist. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

#### 7.3. Specific end use(s)

Not available.

### Section 8: Exposure Controls/Personal Protection

#### 8.1. Control parameters

No additional information available.

#### 8.2. Exposure controls

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Hand protection : Wear suitable gloves.

Eye protection : Safety glasses or goggles are recommended when handling product.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Not normally needed. In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

Other information : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

### Section 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Transparent

Colour : No data available

Odour : No data available

Odour threshold : No data available

pH : 7.2 to 7.4

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Relative evaporation rate (butylacetate=1) : No data available

Flammability (solid, gas) : No data available

Explosive limits : No data available

Explosive properties : No data available

Oxidising properties : No data available

Vapour pressure : No data available

Relative density : No data available

Relative vapour density at 20 °C : No data available  
Solubility : Soluble in water  
Partition coefficient: n-octanol/water : No data available  
Log Kow : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Viscosity : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available

#### 9.2. Other information

No additional information available.

### Section 10: Stability and Reactivity

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2. Chemical stability

Stable under normal storage conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### 10.4. Conditions to avoid

Heat.

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

### Section 11: Toxicological Information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified.

#### Dry Isotonic MediumS with aqueous isotonic diluent with preservative

LD50 oral rat --

LD50 dermal rabbit --

LC50 inhalation rat --

Skin corrosion/irritation : Based on available data, the classification criteria are not met.

Serious eye damage/irritation : Based on available data, the classification criteria are not met.

Respiratory or skin sensitization : Based on available data, the classification criteria are not met.

Germ cell mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Reproductive toxicity : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) : Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause respiratory tract irritation.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Symptoms/injuries after ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

### Section 12: Ecological Information (non-mandatory)

#### 12.1. Toxicity

Ecology - general : This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

#### 12.2. Persistence and degradability

#### Dry Isotonic MediumS with aqueous isotonic diluent with preservative

Persistence and degradability Not established.

#### 12.3. Bioaccumulative potential

#### Dry Isotonic MediumS with aqueous isotonic diluent with preservative

Bioaccumulative potential Not established.

#### 12.4. Mobility in soil

No additional information available.

#### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

### Section 13: Disposal Considerations (non-mandatory)

#### 13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

**Section 14: Transport Information (non-mandatory)**

**Department of Transportation (DOT)**

In accordance with DOT  
Not regulated for transport.

**Additional information**

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

**Section 15: Regulatory Information (non-mandatory)**

**15.1. US Federal regulations**

No additional information available.

**15.2. US State regulations**

**Dry Isotonic MediumS with aqueous isotonic diluent with preservative**

State or local regulations:	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.
-----------------------------	--------------------------------------------------------------------------------------------------------------------------------------

**Section 16: Other Information**

**Prepared By**

AV BioInnovation, USA, [info@AVBioInnovation.com](mailto:info@AVBioInnovation.com)

**Revision Date** 15 Oct 2020

**Print Date** 15 Oct 2020

**Revision Summary**

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of SDS**

For additional questions, please contact Technical Support at Phone: 262 797 0323  
or e-mail to [bioinnovationllc@gmail.com](mailto:bioinnovationllc@gmail.com)

**AV BioInnovation LLC**  
PO Box: 143 , Grosse Ile, MI 48138 USA  
[www.avbioinnovation.com](http://www.avbioinnovation.com)

Revised 3-3-2021