

1: Identification of substance / mixture

1. Product Identifier

Mixture

Product Name **Artificial CSF Perfusion Fluid**
Product Code 59-7316
CAS Number
Other Names aCSF
IUPAC
MFCN Number
EC/EINECS
REACH Number

2. Relevant identified uses of the substance or mixture and uses advised against

For Laboratory Use

3. Details of the supplier of the safety data sheet

Harvard Bioscience, Inc. dba Harvard Apparatus
84 October Hill Rd.
Holliston
Massachusetts
01746
United States



Telephone: 800-272-2775
Fax: 508-429-5732
Email: support@hbiosci.com

4. Emergency telephone number

800-547-6766

2. Hazards Identification

1. Classification of the substance or mixture

Non Hazardous

2. Label elements

Non Hazardous

Hazard Statements

Non Hazardous

Precautionary Phrases

Non Hazardous

3. Other Hazards

Non Hazardous

3. Composition / Information on Ingredients

1. Substances

Mixture

2. Mixtures

Concentration	Product Name	CAS Number	EC/EINECS
	Potassium phosphate, monobasic[]	7778-77-0	
	Sodium Chloride[]	7647-14-5	
	Potassium Chloride[]	7447-40-7	
	Magnesium Sulfate[]	7487-88-9	
	Water[]	7732-18-5	

4. First Aid Measures

1. Description of first aid measures

<i>Skin Contact</i>	Wash immediately with plenty of soap and water.
<i>Eye Contact</i>	IN case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers.
<i>Ingestion</i>	If swallowed, wash out mouth with water, assuming person is conscious. Consult a doctor.
<i>Inhalation</i>	Supply fresh air; consult a doctor in case of complaints.

2. Most important symptoms and effects

There may be mild irritation at the site of contact.

3. Indication of any immediate medical attention

No additional measures required

5. Firefighting measures

1. Extinguishing Media

Suitable Suitable extinguishing media for surrounding fire should be used.

Unsuitable NA

2. Special Hazards arising from the substance or mixture

NA

3. Advice for Fire Fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. Accidental Release Measures

1. Personal Precautions

Wear protective gloves and eyewear.

2. Environmental Precautions

No special measures required.

3. Methods & Materials

Spilled material should be carefully wiped up or moistened with water and removed.
Ventilate area and wash spill site after material pickup is complete.

4. Preventing the occurrence of secondary hazards.

None

7. Handling and Storage

1. Personal Precautions

Safe Handling Open containers and transfer product in a biosafety hood to maintain sterility.

Protection against explosions and fires No special requirements

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks Store in cool, dry area.
Keep container tightly closed.

Storage Controls Do not heat above 50 degrees Celsius

Maintaining Integrity No special requirements

Other advice No further information available.

3. Specific End Uses

The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

<i>General protective and hygiene measures</i>	Avoid contact with skin and eyes
<i>Engineering measures</i>	Keep lid tightly closed.
<i>Eye / Face Protection</i>	Safety Glasses.
<i>Hand protection</i>	Protective gloves.
<i>Respiratory protection</i>	Respiratory protection not required.
<i>Skin protection</i>	Protective clothing.
<i>Other personal protection advice</i>	No data.

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Clear liquid
Odour	None
Odour threshold	No Data Available
PH	7.2 at 25°C
Melting point / Freezing point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	No Data Available
Solubility(ies):	Water soluble
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

No unusual reactivity

2. Stability

Stable at room temperature.

3. Possibility of Hazardous Reactions

No hazardous reactions known.

4. Conditions to Avoid

None

5. Incompatible Materials

None

6. Hazardous Decomposition Products

In combustion emits toxic fumes of carbon monoxide, carbon dioxide, inorganic sodium, potassium oxides and phosphates.

11. Toxicology information

1. Information

<i>Acute Toxicity</i>	To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
<i>Skin corrosion/irritation</i>	May cause minor irritation to skin.
<i>Serious eye Damage/irritation</i>	May cause minor irritation to eyes
<i>Respiratory or skin sensitisation</i>	Material may be irritation to mucous membranes and upper respirator tract.
<i>Germ Cell mutagenicity</i>	No information available
<i>Carcinogenicity</i>	No information available
<i>Reproductive toxicity</i>	No information available
<i>STOT-single exposure</i>	No information available
<i>STOT-repeated exposure</i>	No information available
<i>Aspiration hazard</i>	No information available

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

1. Toxicity

No information available

2. Persistence and degradability

No information available

3. Bio-Accumulative Potential

No information available

4. Mobility and Soil

No information available

5. Results of PBT & vPvB assessment

No information available

6. Other adverse effects

No information available

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations Consult state, local or national regulations for proper disposal.

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

1. **UN Number:**
2. **Shipping Name:** Non Hazardous
3. **Transport hazard class(es):** : Sub Class :

4. **Packing group:**
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

Road (ADR)

1. **UN Number:**
2. **Shipping Name:** None Hazardous
3. **Transport hazard class(es):** : Sub Class :

4. **Packing group:**
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

Sea (IMDG)

1. **UN Number:**
2. **Shipping Name:** Non Hazardous
3. **Transport hazard class(es):** : Sub Class :

4. **Packing group:**
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

Product is not subject to any additional regulations or provisions.

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

This safety data sheet complies with the requirements of GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

2. Associated risk phrases according to European directive 67/548/EEC

3. Disclaimer

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Harvard Apparatus shall not be held liable for any damage resulting from handling or from contact with the above product.