BIOMEDICA

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

Acetate Buffer

of the mixture

Registration number

Synonyms None.

Product code 101201

Issue date 01-December-2017

Version number 02

Revision date 26-July-2017 Supersedes date 28-May-2015

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

Identified uses Not available.

Uses advised againstUse in accordance with supplier's recommendations.

1.3. Details of the supplier of the safety data sheet

Corporate Headquarters BioMedica Diagnostics Inc.

94 Wentworth Road, PO Box 1030

Windsor, Nova Scotia CANADA B0N 2T0

Contact person Corporate Phone: 1-902-798-5105

Corporate Fax: 1-902-798-1025 Email: info@biomedicadiagnostics.com

Website: www.biomedicadiagnostics.com

1.4. Emergency telephone

number

US, Canada, Puerto Rico & Virgin Islands 1-800-255-3924

International +1-813-248-0585 Australia 1-300-954-583 Brazil 0-800-591-6042

China 400-120-0751 India 000-800-100-4086 Mexico 01-800-099-0731

Contract number MIS9591327

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards Not classified for health hazards.

Environmental hazards Not classified for hazards to the environment.

Specific hazards Avoid contact with eyes and skin. Do not ingest or inhale.

Main symptoms May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None.

Signal word None.

Hazard statements None.

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Precautionary statements

Prevention Observe good laboratory hygiene practices.

Response Wash with plenty of water.

Storage Store away from incompatible materials.

Dispose of waste and residues in accordance with local authority requirements. Disposal

Supplemental label information None.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Acetic acid		1 - < 3	64-19-7 200-580-7	-	607-002-00-6	#
Classification:	DSD:	R10, C;R35				В
	CLP:	Flam. Liq. 3;H226, Skin Corr. 1A;H314				В

List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

#: This substance has been assigned Community workplace exposure limit(s).

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: "nitric acid ...%". In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if any discomfort

continues.

Skin contact For skin contact flush with large amounts of water while removing contaminated clothing. Get

medical attention if irritation develops and persists.

In case of contact, immediately flush eyes with fresh water for at least 15 minutes while holding the Eye contact

eyelids open. Remove contact lenses if worn. Get medical attention if irritation persists.

Ingestion Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms

Causes redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards The product is not flammable.

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the

surrounding fire.

Unsuitable extinguishing

None known.

media 5.2. Special hazards arising

When heated to decomposition, may produce hydrazoic acid fumes.

from the substance or mixture

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Acetate Buffer 2/7

926483 Version #: 02 Special fire fighting

Use standard firefighting procedures and consider the hazards of other involved materials.

procedures

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during

clean-up.

For emergency responders

Use personal protection as recommended in section 8 of the SDS.

6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Absorb spill with vermiculite or other inert material. Dispose of waste in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

6.4. Reference to other

sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Avoid contact with skin and eyes. Wash thoroughly after handling. In case of insufficient ventilation, wear suitable respiratory equipment. Handle and open container with care.

7.2. Conditions for safe storage, including any incompatibilities

Store in a closed container away from incompatible materials.

7.3. Specific end use(s) For in vitro diagnostic use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Туре	Value			
Acetic acid (CAS 64-19-7)	TWA	25 mg/m3			
		10 ppm			
Biological limit values	No biological exposure limits noted for the ingredient(s).				

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Not available. Predicted no effect

Not available

concentrations (PNECs) 8.2. Exposure controls

Appropriate engineering

controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety

shower.

Individual protection measures, such as personal protective equipment

General information Personal protective equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

Eye/face protection

Skin protection

Wear approved safety glasses or goggles.

- Hand protection Wear appropriate chemical resistant gloves.

- Other Wear lab coat or other protective garments. Remove contaminated clothing promptly.

Respiratory protection In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory

equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Handle in accordance with good industrial hygiene and safety practices. Hygiene measures

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Colourless liquid. **Appearance**

Physical state Liquid. **Form** Liquid.

Colour Colourless, clear. Slightly pungent Odour

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Odour threshold Not available.

3.9

Not available. Melting point/freezing point Initial boiling point and boiling Not available.

range

Not available. Flash point **Evaporation rate** Not available. Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Not available. Vapour pressure Vapour density Not available. Relative density Not available. Solubility(ies) Soluble in water. Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity** Not available. **Explosive properties** Oxidizing properties Not available.

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions. 10.3. Possibility of hazardous Hazardous polymerisation does not occur.

reactions

Protect against direct sunlight. Strong oxidising agents. Acids.

Carbon oxides. 10.6. Hazardous

decomposition products

10.4. Conditions to avoid

10.5. Incompatible materials

SECTION 11: Toxicological information

Occupational exposure to the substance or mixture may cause adverse effects. **General information**

Information on likely routes of exposure

Vapours may irritate throat and respiratory system and cause coughing. Inhalation

Skin contact May cause skin irritation. Eye contact May cause eye irritation.

May cause discomfort if swallowed. Ingestion

Symptoms May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting.

11.1. Information on toxicological effects

May cause discomfort if swallowed. **Acute toxicity**

Components **Species Test results** Acetic acid (CAS 64-19-7) Acute Dermal

LD50 Rabbit 1060 mg/kg

Inhalation

LC50 Rat 11.4 mg/l, 4 Hours

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Components **Species Test results**

Oral

LD50 Rat 3310 mg/kg

Skin corrosion/irritation

Serious eye damage/eye

irritation

May cause skin irritation. May cause eye irritation.

Respiratory sensitisation Not classified. Not classified. Skin sensitisation Not classified.

Germ cell mutagenicity Carcinogenicity Not classified. Reproductive toxicity Not classified. Specific target organ toxicity -Not classified.

Specific target organ toxicity -

repeated exposure

single exposure

Not classified

Aspiration hazard Not classified. Mixture versus substance Not available.

information

Other information No other specific acute or chronic health impact noted.

SECTION 12: Ecological information

12.1. Toxicity

Components Test results Species

Acetic acid (CAS 64-19-7)

Aquatic

EC50 Water flea (Daphnia magna) Crustacea 65 mg/l, 48 hours Fish LC50 Bluegill (Lepomis macrochirus) 75 mg/l, 96 hours

12.2. Persistence and

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow)

> Acetic acid (CAS 64-19-7) -0.17

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil Not available.

Mobility in general The product is soluble in water.

12.5. Results of PBT

and vPvB assessment Not a PBT or vPvB substance or mixture.

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

12.6. Other adverse effects

Residual waste Dispose in accordance with all applicable regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

EU waste code

Empty containers should be taken to an approved waste handling site for recycling or disposal. Waste codes should be assigned by the user based on the application for which the product was

used.

Disposal methods/information Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

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ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Acetic acid (CAS 64-19-7)

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work Acetic acid (CAS 64-19-7)

Directive 94/33/EC on the protection of young people at work

Acetic acid (CAS 64-19-7)

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended and respective national laws implementing EC directives. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended. In the European Union this product is regulated under the In Vitro Diagnostic Medical Devices

Directive (98/79/EC).

National regulations Follow national regulation for work with chemical agents.

15.2. Chemical safety

No Chemical Safety Assessment has been carried out.

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SECTION 16: Other information

List of abbreviations

DSD: Directive 67/548/EEC. CLP: Regulation No. 1272/2008. DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration.

References

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R10 Flammable.

R35 Causes severe burns.

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

Training information

Disclaimer

Follow training instructions when handling this material.

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