

# SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

Assay Buffer

of the mixture

Registration number

Synonyms None.

Product code 10X Assay Buffer, in 846 ACTICHROME® TF

**Issue date** 01-December-2017

Version number 02

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

Identified uses Assorted.

**Uses advised against**Use 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 is not classified as dangerous according to Directive 1999/45/EC and its amendments.

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

**Health hazards** 

Skin corrosion/irritation Category 2 H315 - Causes skin irritation.

Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

**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** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. May

cause redness and pain.

2.2. Label elements

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

**Contains:** Tris-(hydroxymethyl)aminomethane

Hazard pictograms



Signal word Warning

**Hazard statements** 

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary statements** 

Prevention

P264 Wash thoroughly after handling.

P280 Wear protective gloves/eye protection/face protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

**Storage** Store away from incompatible materials.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information Not applicable.

**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
Tris-(hydroxymethyl)aminomethane 10 - < 20		10 - < 20	77-86-1 201-064-4	-	-	
Classification:	DSD: X	i;R36/37/38				
	CLP: S	kin Irrit. 2;H31	5, Eye Irrit. 2;H319	, STOT SE 3;H335		
Sodium chloride		3 - 8	7647-14-5 231-598-3	01-2119485491-33-XXXX	-	
Classification:	DSD: -					
	CLP: -					

# List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC. CLP: Regulation No. 1272/2008.

**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. If you feel unwell, seek medical advice (show the label where possible).

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTRE or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact** Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation

develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

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

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

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 No unusual fire or explosion hazards noted. Will burn if involved in a fire.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Unsuitable extinguishing

media

During fire, gases hazardous to health may be formed.

5.2. Special hazards arising 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.

Special fire fighting procedures

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

#### **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

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

clean-up. personnel

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

6.2. Environmental precautions

For emergency responders

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.

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

6.4. Reference to other

sections

## **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Do not handle until all safety precautions have been read and understood. 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 at 2-8°C (35-46°F). Store in a closed container away from incompatible materials. Keep container tightly closed.

7.3. Specific end use(s)

Assorted.

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

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

**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 concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering

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

Individual protection measures, such as personal protective equipment

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

discussion with the supplier of the personal protective equipment.

Eve/face protection

Skin protection

Wear approved safety glasses or goggles.

- Hand protection Wear appropriate chemical resistant gloves.

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

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

equipment.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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

**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

**Appearance** 

Liquid. Physical state Liquid. **Form** Colour Not available. Odour Not available. **Odour threshold** Not available. 8.5

pН

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

range

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

(%)

Flammability limit - upper

(%)

Not available.

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

(n-octanol/water)

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

No relevant additional information available. 9.2. Other information

#### **SECTION 10: Stability and reactivity**

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

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

reactions

10.4. Conditions to avoid Keep away from heat.

10.5. Incompatible materials Strong acids. Strong oxidising agents. Reducing Agents.

Carbon oxides. Nitrogen oxides. 10.6. Hazardous

decomposition products

# **SECTION 11: Toxicological information**

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

Information on likely routes of exposure

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

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

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Harmful if swallowed. Ingestion

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. May **Symptoms** 

cause redness and pain.

11.1. Information on toxicological effects

Harmful if swallowed. **Acute toxicity** 

Components **Species Test results** 

Sodium chloride (CAS 7647-14-5)

Acute Dermal

Rabbit LD50 > 10000 mg/kg

Oral

Rat LD50 > 3980 mg/kg

Other

LD50 Mouse 2602 mg/kg

Tris-(hydroxymethyl)aminomethane (CAS 77-86-1)

Acute

Oral

LD50 Rat 5900 mg/kg

Causes skin irritation. Skin corrosion/irritation

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitisation Not classified.

Skin sensitisation Not a skin sensitiser.

Germ cell mutagenicity Not classified.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Not classified. Not classified. Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Not classified. **Aspiration hazard** 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 Species **Test results** 

Sodium chloride (CAS 7647-14-5)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 874 mg/l, 48 hours

12.2. Persistence and No data is available on the degradability of this product.

degradability

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow)

> Tris-(hydroxymethyl)aminomethane (CAS 77-86-1) -2.31 (20°C)

**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 Not a PBT or vPvB substance or mixture.

and vPvB assessment

12.6. Other adverse effects 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.

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## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

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:

Contaminated packaging

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 EU waste code

Disposal methods/information

Dispose in accordance with all applicable regulations. This preparation contains a small amount of sodium azide which can react with copper, lead, brass or solder in plumbing systems and form potentially explosive metal azides. If preparation enters drain, flush with a large volume of water to

prevent azide build-up.

## **SECTION 14: Transport information**

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

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 Not applicable.

Code

## **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

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

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

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

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

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.

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#### Other EU regulations

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

Not listed

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not listed.

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

Not listed.

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.

assessment

#### **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

Not available

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

R36/37/38 Irritating to eyes, respiratory system and skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

**Training information** 

Follow training instructions when handling this material.

Disclaimer

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