

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, in 848 ACTICHROME® TFPI

of the mixture

Registration number -

Synonyms None.

Product code 5X Assay Buffer in 848 Issue date 01-December-2017

Version number 02

Revision date 20-July-2017 Supersedes date 08-April-2015

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

Identified uses The ACTICHROME® TFPI is a chromogenic assay intended for the measurement of Tissue Factor

Pathway Inhibitor activity in human plasma. Research use only.

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

Classification Xi;R36/37/38

The full text for all R-phrases is displayed in Section 16.

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

Health hazards

exposure

Skin corrosion/irritation Category 2 H315 - Causes skin irritation.
Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

Specific target organ toxicity - single

Category 3 respiratory tract irritation

H335 - May cause respiratory

irritation.

Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards Irritating to eyes, respiratory system and skin. **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

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

Hazard pictograms



Signal word Warning

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements

Prevention

P264 Wash thoroughly after handling.

P280 Wear protective gloves/eye protection/face protection.

P261 Avoid breathing vapour.

P271 Use only outdoors or in a well-ventilated area.

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.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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
2-Amino-2-(hydroxyme 3-diol hydrochloride	thyl)propa	ne-1, 25 - 35	1185-53-1 214-684-5	-	-	
Classification:	DSD:	Xi;R36-37-38				
	CLP:	Skin Irrit. 2;H31	5, Eye Irrit. 2;H319), STOT SE 3;H335		
Sodium chloride		15 - 25	7647-14-5 231-598-3	01-2119485491-33-XXXX	-	
Classification:	DSD:	-				
	CLP:	-				
Sodium hydroxide		0.5 - < 2	1310-73-2 215-185-5	-	011-002-00-6	
Classification:	DSD:	C;R35				
	CLP:	Skin Corr. 1A;H	314			

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.

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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 physician

if symptoms develop or persist.

Skin contact Wash with plenty of soap and water. Remove contaminated clothing. Get medical attention if

irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Get medical attention if irritation develops and persists.

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

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

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

nausea and vomiting.

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

media

None known

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

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

clean-up.

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

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.

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 inhalation and contact with skin and eyes. Wash thoroughly after handling. Handle and open

container with care. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in a closed container away from incompatible materials. Store at 2-8°C (35-46°F).

7.3. Specific end use(s) The ACTICHROME® TFPI is a chromogenic assay intended for the measurement of Tissue Factor Pathway Inhibitor activity in human plasma. Research use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	
Sodium hydroxide (CAS	STEL	2 mg/m3	
1310-73-2)			

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.

Exposure guidelines

Follow standard monitoring procedures.

8.2. Exposure controls

Appropriate engineering

controls

Provide adequate ventilation. Provide easy access to water supply and eye wash facilities.

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.

Wear approved safety glasses or goggles. Eye/face protection

Skin protection

- Hand protection Wear appropriate chemical resistant gloves. - Other Wear appropriate chemical resistant clothing.

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

equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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 **Form** Liquid. Not available. Colour

Not available. Odour **Odour threshold** Not available.

7.6

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

range

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

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

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

(n-octanol/water)

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

9.2. Other information No relevant additional information available.

SDS UK

SECTION 10: Stability and reactivity

10.1. Reactivity The product is 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

10.4. Conditions to avoid Keep away from heat.

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

Carbon oxides. Nitrogen oxides. 10.6. Hazardous

decomposition products

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Inhalation Causes respiratory tract irritation.

Causes skin irritation. Skin contact

Eye contact Causes serious eye irritation. Ingestion May cause discomfort if swallowed.

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

cause redness and pain.

11.1. Information on toxicological effects

May cause discomfort if swallowed. Acute toxicity

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation Not a skin sensitiser.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Mixture versus substance

information

Not classified. Not available.

Other information

No other specific acute or chronic health impact noted.

SECTION 12: Ecological information

12.1. Toxicity 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.

Components **Test results Species** Sodium chloride (CAS 7647-14-5)

Aquatic

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

Sodium hydroxide (CAS 1310-73-2)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 34.59 - 47.13 mg/l, 48 hours

Acute

12.2. Persistence and

Fish LC50 Bluegill (Lepomis macrochirus) 99 mg/l, 48 hours

> Mosquitofish (Gambusia affinis affinis) 125 mg/l, 96 hours

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative potential

SDS UK 5/7

Partition coefficient

n-octanol/water (log Kow)

Not available.

Bioconcentration factor (BCF)

Not available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB

Not a PBT or vPvB substance or mixture.

assessment

12.6. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local 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 Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

EU waste codeThe Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Not applicable.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

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

SECTION 14: Transport information

ADR

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

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

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.

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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

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

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work Sodium hydroxide (CAS 1310-73-2)

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

Sodium hydroxide (CAS 1310-73-2)

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 15.2. Chemical safety

assessment

Follow national regulation for work with chemical agents. No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative.

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

R35 Causes severe burns.

R36 Irritating to eyes.

Not available.

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

R37 Irritating to respiratory system.

R38 Irritating to skin.

H314 Causes severe skin burns and eye damage.

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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