

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

Dilution Buffer

of the mixture

Registration number

Synonyms None.

Product code 851 ACTICHROME® PLG

01-December-2017 Issue date

02 Version number

20-July-2017 **Revision date** Supersedes date 07-June-2015

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

Identified uses Research use only.

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

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

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

1.4. Emergency telephone

US, Canada, Puerto Rico & Virgin Islands 1-800-255-3924 International +1-813-248-0585

number 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

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

2.2. Label elements

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

None. **Hazard pictograms** Signal word None. **Hazard statements** None.

Precautionary statements

Prevention Observe good laboratory hygiene practices.

Response Wash with plenty of water.

Store away from incompatible materials. Storage

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

Supplemental label information

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

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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)propane-1,	5 - <10	1185-53-1 214-684-5	-	-	
Classification:	Skin Irrit. 2;H3	15, Eye lı	rrit. 2;H319, STOT	SE 3;H335		
Sodium chloride		5 - 10	7647-14-5 231-598-3	01-2119485491-33-XXXX	-	
Classification:	-					

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

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 If material is ingested, immediately contact a physician or poison control centre.

Ingestion may cause irritation and malaise.

4.2. Most important symptoms and effects, both acute and

delayed

and special treatment needed

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

SECTION 5: Firefighting measures

General fire hazards The product is not flammable.

5.1. Extinguishing media

Suitable extinguishing

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

media

Unsuitable extinguishing media

None known.

5.2. Special hazards arising from the substance or mixture None known.

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 personnel

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

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.

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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.

Research use only. 7.3. Specific end use(s)

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

controls

Follow standard monitoring procedures.

Derived no-effect level (DNEL) Not available. Predicted no effect Not available.

concentrations (PNECs)

8.2. Exposure controls

Appropriate engineering

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of

inhalation of vapours.

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 Wear approved safety glasses or goggles.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

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

Under normal conditions, respirator is not normally required. Respiratory protection 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 Clear, colourless liquid.

Physical state Liquid. **Form** Liquid.

Colour Colourless, clear. Not available. Odour **Odour threshold** Not available.

рΗ

Flammability limit - lower

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

range

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

(%)

Flammability limit - upper Not available.

(%)

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

(n-octanol/water)

Auto-ignition temperature Not available.

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Not available.

Decomposition temperatureNot available.ViscosityNot available.Explosive propertiesNot explosive.Oxidizing propertiesNot 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 storage and transport.

10.2. Chemical stability Stable under normal storage and handling conditions.

10.3. Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoidNone under normal conditions.

10.5. Incompatible materials10.6. HazardousStrong oxidizers, strong acids, and strong bases.None expected under normal conditions of use.

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 Prolonged skin contact may cause redness, irritation and dry skin.

Eye contact Splashes in the eyes may cause redness and irritation.

Ingestion May cause discomfort if swallowed.

Symptoms Ingestion may cause irritation and malaise.

11.1. Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

Components Species Test results

Sodium chloride (CAS 7647-14-5)

AcuteDermal

LD50 Rabbit > 10000 mg/kg

Oral

LD50 Rat > 3980 mg/kg

Other

LD50 Mouse 2602 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause redness, irritation and dry skin.

Serious eye damage/eye

irritation

May cause eye irritation.

Respiratory sensitisation
Skin sensitisation

Germ cell mutagenicity

Reproductive toxicity

No data available.
Not classified.
Not classified.
Not classified.

Not classified.

Specific target organ toxicity -

single exposure

Carcinogenicity

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard
Mixture versus substance

Not classified.

information

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

SECTION 12: Ecological information

12.1. Toxicity

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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

Partition coefficient

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative potential Not available.

Not available.

n-octanol/water (log Kow)

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

N

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.

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:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste codeWaste 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. Contract with a licensed chemical disposal

agency.

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

Not applicable.

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.

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

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

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

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

Not listed.

Other regulations This product does not meet the criteria for classification according to Regulation (EC) 1272/2008

(CLP Regulation) and Directive 67/548/EEC and their amendments respectively. This Safety Data

Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended.

National regulations 15.2. Chemical safety Follow national regulation for work with chemical agents. No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.

Not available.

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 H-statements not written out in full under

Sections 2 to 15

H315 Causes skin irritation.

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

Training information

Disclaimer

Follow training instructions when handling this material.

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