



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

1.1. Product identifier			
Trade name or designation of the mixture	Sample Dilution Buffer		
Registration number	-		
Synonyms	None.		
Product code	843LDB		
Issue date	01-December-2017		
Version number	02		
Revision date	19-July-2017		
Supersedes date	28-May-2015		
1.2. Relevant identified uses of the substance or mixture and uses advised against			
Identified uses Various.			
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		

	Website: www.bioinedicadiagilosites.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

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	Ingestion may cause irritation and malaise.
2.2. Label elements	

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

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

Observe good laboratory hygiene practices.
Wash with plenty of water.
Store away from incompatible materials.
Dispose of waste and residues in accordance with local authority requirements.
None.
Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

neral information Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Note
Sodium chloride		5 - 15	7647-14-5 231-598-3	01-2119485491-33-XXXX	-	
Classification:	DSD:	-				
	CLP:	-				
Sodium hydroxide		0 - < 1	1310-73-2 215-185-5	-	011-002-00-6	
Classification:	DSD:	C;R35				
	CLP:	Skin Corr. 1A;	H314			

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. For skin contact flush with large amounts of water while removing contaminated clothing. Get medical attention if irritation develops and persists.	
Skin contact		
Eye contact	In case of contact, immediately flush eyes with fresh water for at least 15 minutes while holding the 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.	
4.2. Most important symptoms and effects, both acute and delayed	Ingestion may cause irritation and malaise.	
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	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	Use standard firefighting procedures and consider the hazards of other involved materials.	

SECTION 6: Accidental release measures

procedures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless	
personnel	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.	

handling	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.
7.3. Specific end use(s)	Various.

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 1310-73-2)	STEL	2 mg/m3	
Biological limit values	No biological exposure limits noted for the ingred	ent(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 controls	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 discussion with the supplier of the personal protection		
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. Rem	ove contaminated clothing promptly.	
Respiratory protection	Under normal conditions, respirator is not normal	y required.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
Hygiene measures	Handle in accordance with good industrial hygien	e and safety practices.	
Environmental exposure controls	Inform appropriate managerial or supervisory per	sonnel 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.
Odour	Not available.
Odour threshold	Not available.
рН	7.2
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.

Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	Water soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
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 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 avoid	None under normal conditions.
10.5. Incompatible materials	Strong oxidizers, strong acids, and strong bases.
10.6. Hazardous decomposition products	None expected under normal conditions of use.

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 toxicologic	al effects	
Acute toxicity	May cause discomfort if swallowed.	
Skin corrosion/irritation	Prolonged skin contact may cause redness, irritation and dry skin.	
Serious eye damage/eye irritation	May cause eye irritation.	
Respiratory sensitisation	Not classified.	
Skin sensitisation	No data available.	
Germ cell mutagenicity	Not classified.	
Carcinogenicity	Not classified.	
Reproductive toxicity	Not classified.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not classified.	
Mixture versus substance information	Not available.	
Other information	No other specific acute or chronic health impact noted.	

SECTION 12: Ecological information

12.1. Toxicity

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
Sodium hydroxide (CAS 1310-73-2	2)		
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	34.59 - 47.13 mg/l, 48 hours
Acute			
Fish	LC50	Bluegill (Lepomis macrochirus)	99 mg/l, 48 hours
		Mosquitofish (Gambusia affinis affinis)	125 mg/l, 96 hours
12.2. Persistence and degradability	No data is ava	ailable on the degradability of this product.	
12.3. Bioaccumulative potential	Not available.		
Partition coefficient n-octanol/water (log Kow)	Not available.		
Bioconcentration factor (BCF)	Not available.		
12.4. Mobility in soil	Not available.		
Mobility in general	The product is	The product is soluble in water.	
12.5. Results of PBT and vPvB assessment	Not a PBT or	vPvB substance or mixture.	
12.6. Other adverse effects		s not classified as environmentally hazardo t large or frequent spills can have a harmfu	

SECTION 13: Disposal considerations

13.1. Waste treatment methodsResidual wasteDispose 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 packagingEmpty 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/informationDispose 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.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulkNot applicable.according to Annex II ofMARPOL 73/78 and the IBCCodeCode

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. 850/200 Not listed.	4 On persistent organic pollutants, Annex I as amended
Regulation (EC) No. 689/200 Not listed.	8 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended
	8 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended
Regulation (EC) No. 689/200	8 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended
Not listed. Regulation (EC) No. 689/200 Not listed.	8 concerning the export and import of dangerous chemicals, Annex V as amended
	6 Annex II Pollutant Release and Transfer Registry, as amended
	06, REACH Article 59(10) Candidate List as currently published by ECHA
Authorisations	
Regulation (EC) No. 1907/20 Not listed.	06, REACH Annex XIV Substances subject to authorization, as amended
Restrictions on use	
Regulation (EC) No. 1907/20	06, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Not listed. Directive 2004/37/EC: on the work, as amended	protection of workers from the risks related to exposure to carcinogens and mutagens at
Not listed. Directive 92/85/EEC: on the breastfeeding, as amended	safety and health of pregnant workers and workers who have recently given birth or are
Not listed.	
Other EU regulations	
Directive 2012/18/EU on maj	or accident hazards involving dangerous substances
Not listed. Directive 98/24/EC on the pr	otection of the health and safety of workers from the risks related to chemical agents at work
Sodium hydroxide (CAS 1 Directive 94/33/EC on the pr	1310-73-2) otection of young people at work
Sodium hydroxide (CAS 1	310-73-2)
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	Follow national regulation for work with chemical agents.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.
SECTION 16: Other inform	ation
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.

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

R35 Causes severe burns. H314 Causes severe skin burns and eye damage. Follow training instructions when handling this material.

Training information

The information above is provided in good faith. It is believed to be accurate and represents the best information currently available to us. HOWEVER, WE MAKE NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER TYPE, EXPRESSED OR IMPLIED, WITH RESPECT TO PRODUCTS DESCRIBED OR DATA OR INFORMATION PROVIDED, AND WE ASSUME NO LIABILITY RESULTING FROM THE USE OF SUCH PRODUCTS, DATA OR INFORMATION. Users should make their own investigations to determine the suitability of the information for their particular purposes, and the user assumes all risk arising from their use of the material. The user is required to comply with all laws and regulations relating to the purchase, use, storage and disposal of the material, and must be familiar with and follow generally accepted safe handling procedures. In no event shall BioMedica Diagnostics be liable for any claims, losses, or damages of any individual or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if BioMedica Diagnostics has been advised of the possibility of such damages.