Safety Data Sheet

# BIO-21047/DM5

# **BIOTAQ HS DNA Polymerase**





Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of original issue: 28/06/2022 Current revision: 28/06/2022 Version 1.0

.1	Product identifier	ince/mixture and of the company/undertaking		
	Product form:	Mixture		
	Product name:	BIOTAQ HS DNA Polymerase, 5U/µL		
	CAS No.:	N/A		
	EC No.:	N/A		
	REACH No.:	A registration number is not available for this substance as the		
		substance or its uses are exempted from registration, the annual		
		tonnage does not require a registration or the registration is		
		envisaged for a later registration deadline.		
.2	Relevant identified uses of the substan	ce or mixture and uses advised against		
	Relevant identified uses:	Product for analytical use		
	Uses advised against:	Not described		
3	Details of the supplier of the safety data	a sheet		
	Bioline Reagents Ltd, part of Meridian Bios	science		
	Humber Road	Phone: +44 (0)20 8830 5300		
	London	Fax: +44 (0)20 8452 2822		
	NW2 6EW	E-mail: mbi.tech@meridianlifescience.com		
	United Kingdom			
.4	Emergency telephone number			
	Emergency number:	+44 (0)1865 407 333 – English speaking (24 hours, 7 days)		
	Contact:	CareChem 24		
EC	<b>FION 2: Hazards identification</b>			
1	Classification of the substance or mixture			
	BIOTAQ HS DNA Polymerase, 5U/μL			
	Classification according to Regulation (EC) No 1272/2008			
	Acute aquatic toxicity (Category 3), H402			
	Chronic aquatic toxicity (Category 3), H412	2		
.2	Label elements	Label elements		
	BIOTAQ HS DNA Polymerase, 5U/μL			
	Labelling according Regulation (EC) No 1272/2008			
	GHS Pictogram: None Signal word: None			
	Hazard Statements (CLP)	Precautionary Statements (CLP)		

None

H412 - Harmful to aquatic life with long lasting effects

H402 - Harmful to aquatic life



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### 2.3 Other hazards

### Possible hazards from physicochemical properties:

Some hazards associated with individual components of this mixture are not relevant because the substances are present in concentrations below the GHS cut-off levels, change of physical state or because the mixture/ solution is buffered to pH 4-9 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.).

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1/3.2 Substance or Mixture

#### BIOTAQ HS DNA Polymerase, 5U/µL

Name, synonyms and	Product Identifier	Composition	Classification according to
formulae			Regulation (EC) No.
			1272/2008 (CLP)
t-	(CAS No.) 9002-93-1	≤0.24%	Acute Tox. 4; Skin Irrit. 2;
Octylphenoxypolyethoxyet	(EC No.) 618-344-0		Eye Dam. 1; Aquatic
hanol4-(1,1,3,3-			Acute 1; Aquatic Chronic
Tetramethylbutyl)phenylpo	p-tertiary-Octylphenoxy polyethyl alcohol		1; H302, H315, H318,
lyethylene	Included in the Candidate List of		H400, H410 M-Factor -
Glycol Polyethylene glycol	Substances of Very High		Aquatic Acute: 10
tert-octylphenyl ether	Concern (SVHC) according to Regulation		
(C2H4O)nC14H22O	(EC) No. 1907/2006 (REACH)		
Glycerol,	(CAS No.) 56-81-5	50 - 60%	Not a hazardous
1,2,3-Propanetriol	(EC No.) 200-289-5		substance or mixture
Glycerin			
С3Н8О3			

#### 3.3 Remarks

List of H, EUR and P phrases: see section 16

#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

First-aid measures general	If necessary consult a physician. Show this safety data sheet to the medical professional in attendance.
First-aid measures after inhalation	Remove to fresh air, keep the patient warm and provide resuscitation if necessary. If symptoms develop, obtain medical attention.
First-aid measures after skin contact	Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.
First-aid measures after eye contact	After contact with the eyes rinse thoroughly with plenty of water for at least 15 minutes with the eyelid wide open.
First-aid measures after ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth and drink plenty of water.



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

The most important known symptoms and effects are described in the labelling section 2.2 and/or in section 11 Not expected to present a significant hazard under anticipated conditions of normal use. May cause slight irritation to eyes.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No additional recommendations.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area.

Suitable extinguishing media	All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON
	DIOXIDE can be used.
Unsuitable extinguishing media	None known.

#### 5.2 Special hazards arising from the substance or mixture

Fire Hazard	Not flammable.
Hazardous decomposition products in	Carbon oxides, Nitrogen oxides, Hydrogen chloride gas, Sulphur oxides,
case of fire	Hydrogen sulfide gas, Sodium oxides.

#### 5.3 Advice for firefighters

Firefighting instructions	Product package burns like paper or plastic.	
	Spray any vapours released with water.	
	Retain fire water where possible.	
Protection during firefighting	Protective breathing apparatus, independent of the ambient air (isolated	
	equipment), and sealed protective clothing is necessary in the event of large-	
	scale formation of toxic substances.	

#### 5.4 **Additional Information**

None.

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

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Evacuate unnecessary personnel.
	Avoid breathing vapours, mist or gas.
	Avoid contact with skin, eyes and clothing.
	Regular staff training is necessary, indicating hazards and precautions on
	the basis of operating instructions.
	Restrictions on activity must be observed.
For emergency responders	Wear suitable protective equipment as defined in section 8.2
	Prevent further leakage or spillage if safe to do so.
	Avoid release of materials into the environment.

# meridian BIOSCIENCE\*

# BIOTAQ HS DNA Polymerase, 5U/µL

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#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Discharge into the environment must be avoided.

#### 6.3 Methods and material for containment and cleaning up

Small Scale release	Make use of general chemical spill kit or other absorbent material.
	Clean any contaminated equipment and floors with plenty of water.
	Collect small amounts of leaked liquid and dispose via appropriate chemical
	waste stream.
Large Scale release	Bind any escaping liquid with inert absorbent material (sand, vermiculite or
	similar).
	Block/ prevent liquid entering any open drain.
	Collect contaminated materials and dispose in accordance to local
	regulations for the disposal of hazardous chemicals.

#### 6.4 Reference to other sections

SECTION 5.4: Additional fire precautions.

SECTION 8: Exposure controls/personal protection.

SECTION 13: Disposal considerations.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Precautions for safe handling	Handling in accordance with the instructions supplied with the product.
	Provide adequate ventilation.
	Avoid breathing vapours, mist or gas.
	Avoid contact with skin, eyes and clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
	Take off contaminated clothing and wash before reuse.
	Wash hands and other exposed areas with mild soap and water before
	eating, drinking or smoking and when leaving work.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Keep only in the original container.	
	Store in a cool well ventilated place out of direct sunlight.	
	Keep container closed when not in use.	
	Hygroscopic.	
Incompatible materials	Store separately from: Bases, Oxidizing agents, Reducing agents, Alkali	
	metals, Strong Acids.	

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.



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

### 8.1 Control parameters

Glycerol		
United Kingdom	WEL TWA (mg/m³)	10 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	N/A
United Kingdom	WEL STEL (mg/m³)	N/A
United Kingdom	WEL STEL (ppm)	N/A
United Kingdom	Remark (WEL)	Where no specific short-term exposure
		limit is listed, a figure three
		times the long-term exposure should be
		used.
4-(1,1,3,3-Tetramethylbutyl)	ohenyl polyethylene glycol	
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	N/A
United Kingdom	WEL TWA (ppm)	N/A
United Kingdom	WEL STEL (mg/m³)	N/A
United Kingdom	WEL STEL (ppm)	N/A
United Kingdom	Remark (WEL)	Contains no substances with occupational
		exposure limit values.

#### 8.2 Exposure controls

Appropriate engineering controls:	Good ventilation or extraction system in the room, floor resistant to
	chemicals and washing facilities available.
General controls	Avoid all unnecessary exposure.
	Handle in accordance with good industrial hygiene and safety practice.
Respiratory protection	Respiratory protection not normally required.
	For nuisance exposures or if risk assessment requires, use type OV/AG (US)
	or type ABEK (EU EN 14387) respirator cartridges. Use respirators and
	components tested and approved under appropriate government standards
	such as NIOSH (US) or CEN (EU).
Eye protection	Use equipment for eye protection tested and approved under appropriate
	government standards such as NIOSH (US) or EN166 (EU) with integrated
	side shields or wrap-around protection.
Hand protection	Handle with gloves.
	Gloves must be inspected prior to use. Use proper glove removal technique
	(without touching glove's outer surface) to avoid skin contact with this
	product.
	Wear protective gloves that satisfy the specifications of EU Directive
	89/686/EEC and the standard EN374 derived from it.
	Exact breakthrough times to be found through the manufacturer of the
	protective gloves and must be observed.
	Gloves should be removed and replaced if there are any signs of
	degradation or breakthrough.
	If used in solution, or mixed with other substances, and under conditions
	which differ from EN374, contact the supplier of the CE approved gloves.
Skin and body protection	Long sleeved protective clothing.



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Thermal protection	Not required for normal conditions of use.
Other information	Eating, drinking, smoking, taking snuff and storage of food in work areas and
	at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and
	clothing. Rinse any clothing on which the substance has been spilled, and
	soak it in water. Wash hands thoroughly with soap and water when stopping
	work and before eating.

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state:	Liquid
•	-
Colour:	Colourless
Molecular Mass:	No data available
Odour:	Odourless
Odour threshold:	No data available
pH:	No data available
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	Not applicable
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	~1.0 g/cm <sup>3</sup> (Water = 1)
Solubility:	No data available
Log Pow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Oxidising properties:	No data available
Explosive properties:	Not explosive
Explosive limits:	No data available

#### 9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

**Relevant Properties of Substance Group:** 

None



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ION 10: Stability and reactivity
Reactivity
Stable under normal conditions.
Chemical stability
Stable under recommended conditions.
Possibility of hazardous reactions
None known.
Conditions to avoid
Extremely high or low temperatures.
Incompatible materials
Bases, Oxidizing agents, Reducing agents, Alkali metals, Strong Acids.
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions – Carbon oxides, Nitrogen oxides, Hydrogen chloride gas,
Sulphur oxides, Hydrogen sulfide gas, Sodium oxides.
In the event of fire: see section 5

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Glycerol	
LD50 oral rat	12,600 mg/kg
LC50 inhalation rat 4hr	>2.75 mg/l
LD50 Dermal rabbit	10,000 mg/kg
LD50 Dermal guinea pig	56750 mg/kg
TSCA Inventory:	Listed (1,2,3-Propanetriol)
California Proposition 65 List:	Not listed
Australia NICNAS:	Not listed
Canada CEPA 1999:DSL:	Not listed
Japan CSCL/PRTR:	Not listed
Japan PDSCL:	Not listed
Japan ISHL:	Not listed
South Korea TCCA:	Not listed
Korea Exist.Chem.Inventory:	KE-29297
RTECS:	MA8050000
4-(1,1,3,3-Tetramethylbutyl)phenyl polyethylene glycol	
LD50 Dermal rabbit	>3000 mg/kg
RTECS:	Not available



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Quantitative data on the toxicity of this product is not available.

BIOTAQ HS DNA Polymerase, 5U/µL	
Acute toxicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Carcinogenicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Reproductive toxicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Aspiration hazard	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Potential adverse human health effects and	Not expected to present a significant hazard under
symptoms:	anticipated conditions of normal use.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Glycerol	
Ecology - Water	Not Classified
LC50 – Fish (Salmo gairdneri) 96hr	54,000 mg/l
LC50 - Bacteria, activated sludge	> 1,000 mg/l
EC50 – Daphnia (daphnia magna, locomotor effect)	> 10,000 mg/l
24hr	
4-(1,1,3,3-Tetramethylbutyl)phenyl polyethylene glycol	
Ecology - Water	Harmful to aquatic life with long lasting effects. Avoid contact
	of substance/mixture to environment.
LC50 – Fish Pimephales promelas (fathead minnow)	4-8.9 mg/l
96hr	
LC50 - Daphnia magna (Water flea) 48hr	18 - 26 mg/l

Environmental hazards must not be labelled with P phrases until 125 mL or 125 g (EU 1272/2008 Annex I - 1.5.2).



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#### 12.2 Persistence and degradability

Glycerol	
Biodegradation	No data available
4-(1,1,3,3-Tetramethylbutyl)phenyl polyethylene glycol	
Biodegradation	No data available

#### 12.3 Bioaccumulative potential

Glycerol	
Bioconcentration factor (BCF REACH)	No additional information available
Log Pow	-1.76
4-(1,1,3,3-Tetramethylbutyl)phenyl polyethylene glycol	
Bioconcentration factor (BCF REACH)	No additional information available
Log Pow	No data available

#### 12.4 Mobility in soil

Glycerol	
Ecology - Soil	Miscible with water.
4-(1,1,3,3-Tetramethylbutyl)phenyl polyethylene glycol	
Ecology - Soil	No data available.

#### 12.5 Results of PBT and vPvB assessment

Glycerol
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
4-(1,1,3,3-Tetramethylbutyl)phenyl polyethylene glycol
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### 12.6 Other adverse effects

Glycerol
No additional information available
4-(1,1,3,3-Tetramethylbutyl)phenyl polyethylene glycol
Very toxic to aquatic life with long lasting effects.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste disposal recommendations:	Product
	Offer surplus and non-recyclable solutions to a licensed disposal company.
	Contaminated packaging
	Dispose of as unused product.



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### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1 UN number

UN-No. (ADR)	Not regulated
UN-No. (IMDG)	Not regulated
UN-No. (IATA)	Not regulated
UN-No. (ADN)	Not regulated
UN-No. (RID)	Not regulated

#### 14.2 UN proper shipping name

Proper Shipping Name	Not regulated
Proper Shipping Name (IMDG)	Not regulated
Proper Shipping Name (IATA)	Not regulated
Proper Shipping Name (ADN)	Not regulated
Proper Shipping Name (RID)	Not regulated

#### 14.3 Transport hazard class(es)

Transport hazard class(es) (ADR)	Not regulated
Transport hazard class(es) (IMDG)	Not regulated
Transport hazard class(es) (IATA)	Not regulated
Transport hazard class(es) (ADN)	Not regulated
Transport hazard class(es) (RID)	Not regulated

#### 14.4 Packing group

Packing group	Not regulated
Packing group (IMDG)	Not regulated
Packing group (IATA)	Not regulated
Packing group (ADN)	Not regulated
Packing group (RID)	Not regulated

#### 14.5 Environmental hazards

Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available

#### 14.6 Special precautions for user

Overland transport	Not regulated
Transport by sea	Not regulated
Air transport	Not regulated
Inland waterway transport	Not regulated
Rail transport	Not regulated

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable



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#### SECTION 15: Regulatory information

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Authorisations and/or restrictions on use:

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) p-tertiary-Octylphenoxy polyethyl alcohol.

This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr. 1907/2006.

Listed substance / Sunset Date: p-tertiary-Octylphenoxy polyethyl alcohol / 04.01.2021.

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

#### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out

#### **SECTION 16: Other Information**

#### 16.1 Full text of H, EUH and P statements

H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

#### 16.2 Training Advice

Regular safety training

#### 16.3 Abbreviations and acronyms

ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service number
CLP	Classification, Labeling and Packaging
DNEL	Derived No effect Limit
EC	European Community
EC50	Effective Concentration 50%
EN	European Norm
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
IMDG	International Maritime Dangerous Goods Code
IMO	International Maritime Organisation
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
MAC	Maximal Allowed Concentration
O/W	Oil-in-Water (chemistry)
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, bioaccumulative and toxic
PMcc	Pensky-Martens Closed Cup test
PNEC	Predicted no effect concentration
REACH	Registration, Evaluation and Authorisation of CHemicals
RID	Règlement concernant le transport international ferroviaire de marchandises
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
UNXXXX	Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods
vPvB	Very persistent and very bioaccumulative



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#### 16.4 Recommended Restriction on Use

Only for professional user working under controlled conditions.

Consider employee restrictions for young people (e.g. 94/33/EC)

Consider employee restrictions for pregnant women and nursing women (e.g. 92/85/EEC)

#### 16.5 Further Information

**Bioline Reagents Ltd**, part of Meridian Bioscience, provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

**Bioline Reagents Ltd,** part of Meridian Bioscience, makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers.

Accordingly, **Bioline Reagents Ltd**, Meridian Bioscience or other subsidiaries, will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

#### 16.6 Sources of Key Data

UK – Control of Substances Hazardous to Health Regulations 2002 (as amended). Health and Safety at Work etc. Act 1974 (as amended). Guidance Workplace Exposure Limits EH40.

EU – REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress. Legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC TRGS 900, German engineering rules governing limits in air at work, updated February 2015 SUVA .CH, Limits in air at work 2009, revised on 01.2009. KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)., updated October 2011

Republic of China – 职业病防治法

USA – Occupational Safety and Health Administration (OSHA) Occupational Exposure Limits - Table Z-1 Limits for Air Contaminants. The American Conference of Governmental Industrial Hygienists (ACGIH).

Australia - Work Health and Safety (WHS) Act and the WHS Regulations.

Canada - Hazardous Products Regulations SOR/2015-17



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		nce/mixture and of the company/undertaking			
.1	Product identifier				
	Product form:	Mixture			
	Product name:	ImmoBuffer, 10x			
	CAS No.:	N/A			
	EC No.:	N/A			
	REACH No.:	A registration number is not available for this substance as the			
		substance or its uses are exempted from registration, the annual			
		tonnage does not require a registration or the registration is			
		envisaged for a later registration deadline.			
.2	Relevant identified uses of the substance	e or mixture and uses advised against			
	Relevant identified uses:	Product for analytical use			
	Uses advised against:	Not described			
	-				
1.3	Details of the supplier of the safety data	sheet			
	Bioline Reagents Ltd, part of Meridian Bioso				
	Humber Road	Phone: +44 (0)20 8830 5300			
	London	Fax: +44 (0)20 8452 2822			
	NW2 6EW	E-mail: mbi.tech@meridianlifescience.com			
	United Kingdom				
1.4	Emergency telephone number				
	Emergency number:	+44 (0)1865 407 333 – English speaking (24 hours, 7 days)			
	Contact:	CareChem 24			
SEC	TION 2: Hazards identification				
2.1	Classification of the substance or mixtur				
	ImmoBuffer, 10x	-			
	Classification according to Regulation (EC) No 1272/2008				
	Not a hazardous substance or mixture				
2.2	Label elements				
	ImmoBuffer, 10x				
		Labelling according Regulation (EC) No 1272/2008			
	Labelling according Regulation (EC) No 1	12/2/2008			
	Labelling according Regulation (EC) No 1	12/2/2000			
	Labelling according Regulation (EC) No 1 Not a hazardous substance or mixture	121212000			
		12/2/2000			
		Precautionary Statements (CLP)			



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#### 2.3 Other hazards

#### Possible hazards from physicochemical properties:

Some hazards associated with individual components of this mixture are not relevant because the substances are present in concentrations below the GHS cut-off levels, change of physical state or because the mixture/ solution is buffered to pH 4-9 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.).

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

## 3.1/3.2 Substance or Mixture

#### ImmoBuffer, 10x

Name, synonyms and	Product Identifier	Composition	Classification according to
formulae			Regulation (EC) No.
			1272/2008 (CLP)
N/A	N/A	N/A	N/A

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

#### 3.3 Remarks

List of H, EUR and P phrases: see section 16

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

First-aid measures general	If necessary consult a physician. Show this safety data sheet to the medical professional in attendance.
First-aid measures after inhalation	Remove to fresh air, keep the patient warm and provide resuscitation if necessary. If symptoms develop, obtain medical attention.
First-aid measures after skin contact	Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.
First-aid measures after eye contact	After contact with the eyes rinse thoroughly with plenty of water for at least 15 minutes with the eyelid wide open.
First-aid measures after ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth and drink plenty of water.

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

The most important known symptoms and effects are described in the labelling section 2.2 and/or in section 11 Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3 Indication of any immediate medical attention and special treatment needed

No additional recommendations.



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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area.

Suitable extinguishing media	All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON	
	DIOXIDE can be used.	
Unsuitable extinguishing media	None known.	

#### 5.2 Special hazards arising from the substance or mixture

Fire Hazard	Not flammable.	
Hazardous decomposition products in	Hydrogen chloride gas, Carbon oxides, Nitrogen oxides, Sulphur oxides.	
case of fire		

#### 5.3 Advice for firefighters

irefighting instructions Product package burns like paper or plastic.	
	Spray any vapours released with water.
	Retain fire water where possible.
Protection during firefighting Protective breathing apparatus, independent of the ambient air (is	
	equipment), and sealed protective clothing is necessary in the event of large-
	scale formation of toxic substances.

#### 5.4 Additional Information

None.

#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Evacuate unnecessary personnel.
	Avoid breathing vapours, mist or gas.
	Avoid contact with skin, eyes and clothing.
Regular staff training is necessary, indicating hazards and precaution	
	the basis of operating instructions.
	Restrictions on activity must be observed.
For emergency responders	Wear suitable protective equipment as defined in section 8.2
	Prevent further leakage or spillage if safe to do so.
	Avoid release of materials into the environment.

#### 6.2 Environmental precautions

Notify authorities if large amounts of the product enters sewers or public waters.



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#### 6.3 Methods and material for containment and cleaning up

Small Scale release	Make use of general chemical spill kit or other absorbent material.	
Clean any contaminated equipment and floors with plenty of		
	Collect small amounts of leaked liquid and flush with copious amounts of	
	water into drains.	
Large Scale release	Bind any escaping liquid with inert absorbent material (sand, vermiculite or	
similar).		
	Block/ prevent liquid entering any open drain.	
	Collect contaminated materials and dispose in accordance to local	
	regulations for the disposal of hazardous chemicals.	

#### 6.4 Reference to other sections

SECTION 5.4: Additional fire precautions. SECTION 8: Exposure controls/personal protection.

SECTION 13: Disposal considerations.

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

### 7.1 Precautions for safe handling

Precautions for safe handling	Handling in accordance with the instructions supplied with the product.
	Provide adequate ventilation.
	Avoid breathing vapours, mist or gas.
	Avoid contact with skin, eyes and clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
	Take off contaminated clothing and wash before reuse.
	Wash hands and other exposed areas with mild soap and water before
	eating, drinking or smoking and when leaving work.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Keep only in the original container.	
	Store in a cool well ventilated place out of direct sunlight.	
	Keep container closed when not in use.	
Incompatible materials	Store separately from: Oxidizing agents, Bases.	

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.



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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

ImmoBuffer, 10x		
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	N/A
United Kingdom	WEL TWA (ppm)	N/A
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	N/A
United Kingdom	WEL STEL (ppm)	N/A
United Kingdom	Remark (WEL)	Contains no substances with occupational
		exposure limit values.

#### 8.2 Exposure controls

Appropriate engineering controls:	Good ventilation or extraction system in the room, floor resistant to	
	chemicals and washing facilities available.	
General controls	Avoid all unnecessary exposure.	
Descriptory motostica	Handle in accordance with good industrial hygiene and safety practice.	
Respiratory protection	Respiratory protection not required.	
	For nuisance exposures or if risk assessment requires, use type OV/AG (US)	
	or type ABEK (EU EN 14387) respirator cartridges. Use respirators and	
	components tested and approved under appropriate government standards	
	such as NIOSH (US) or CEN (EU).	
Eye protection	Use equipment for eye protection tested and approved under appropriate	
	government standards such as NIOSH (US) or EN166 (EU) with integrated	
	side shields or wrap-around protection.	
Hand protection Handle with gloves.		
	Gloves must be inspected prior to use. Use proper glove removal technique	
	(without touching glove's outer surface) to avoid skin contact with this	
	product.	
	Wear protective gloves that satisfy the specifications of EU Directive	
	89/686/EEC and the standard EN374 derived from it.	
	Exact breakthrough times to be found through the manufacturer of the	
	protective gloves and must be observed.	
	Gloves should be removed and replaced if there are any signs of	
	degradation or breakthrough.	
	5	
	Splash contact – Material suggested Nitrile Rubber.	
	Full contact – Material suggested Nitrile Rubber.	
	If used in solution, or mixed with other substances, and under conditions	
	which differ from EN374, contact the supplier of the CE approved gloves.	
Skin and body protection	Long sleeved protective clothing.	
Thermal protection	Not required for normal conditions of use.	



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Other information Eating, drinking, smoking, taking snuff and storage of food in wo	
	at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and
	clothing. Rinse any clothing on which the substance has been spilled, and
	soak it in water. Wash hands thoroughly with soap and water when stopping
	work and before eating.

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

ImmoBuffer, 10x		
Physical state:	Liquid	
Colour:	Colourless	
Molecular Mass:	No data available	
Odour:	Odourless	
Odour threshold:	No data available	
pH:	No data available	
Relative evaporation rate (butylacetate=1):	No data available	
Melting point:	No data available	
Freezing point:	No data available	
Boiling point:	No data available	
Flash point:	No data available	
Auto-ignition temperature:	No data available	
Decomposition temperature:	No data available	
Flammability (solid, gas):	Not applicable	
Vapour pressure:	No data available	
Relative vapour density at 20 °C:	No data available	
Relative density:	~1.0 g/cm³ (Water = 1)	
Solubility:	No data available	
Log Pow:	No data available	
Viscosity, kinematic:	No data available	
Viscosity, dynamic:	No data available	
Oxidising properties:	No data available	
Explosive properties:	No data available	
Explosive limits:	No data available	

#### 9.2

#### Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

Relevant Properties of Substance Group:

None



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SECT	ION 10: Stability and reactivity	
10.1	Reactivity	
	Stable under normal conditions.	
10.2	Chemical stability	
	Stable under recommended conditions.	
10.3	Possibility of hazardous reactions	
	None known.	
10.4	Conditions to avoid	
	Extremely high or low temperatures.	
10.5	Incompatible materials	
	Oxidizing agents, Bases.	
10.6	Hazardous decomposition products	
	Hazardous decomposition products formed under fire conditions - Hydrogen chloride gas, Carbon oxides, Nitrogen oxides,	
	Sulphur oxides.	
	In the event of fire: see section 5	
SECT	ION 11: Toxicological information	
11.1	Information on toxicological effects	
	Quantitative data on the toxicity of this product is not available.	
	ImmoBuffer, 10x	

Acute toxicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Carcinogenicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Reproductive toxicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Aspiration hazard	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Potential adverse human health effects and	Not expected to present a significant hazard under
symptoms:	anticipated conditions of normal use.



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#### SECTION 12: Ecological information

#### 12.1 Toxicity

 ImmoBuffer, 10x

 Ecology - Water
 Not Classified

Environmental hazards must not be labelled with P phrases until 125 mL or 125 g (EU 1272/2008 Annex I - 1.5.2).

#### 12.2 Persistence and degradability

ImmoBuffer, 10x	
Biodegradation	No data available

#### 12.3 Bioaccumulative potential

ImmoBuffer, 10x	
Bioconcentration factor (BCF REACH)	No additional information available
Log Pow	Not applicable

#### 12.4 Mobility in soil

ImmoBuffer, 10x	
Ecology - Soil	No data available.

#### 12.5 Results of PBT and vPvB assessment

ImmoBuffer, 10x
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### 12.6 Other adverse effects

#### ImmoBuffer, 10x

No additional information available.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Waste disposal recommendations:	Product
	Offer surplus and non-recyclable solutions to a licensed disposal company.
	Contaminated packaging
	Dispose of as unused product.



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### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1 UN number

UN-No. (ADR)	Not regulated
UN-No. (IMDG)	Not regulated
UN-No. (IATA)	Not regulated
UN-No. (ADN)	Not regulated
UN-No. (RID)	Not regulated

#### 14.2 UN proper shipping name

Proper Shipping Name	Not regulated
Proper Shipping Name (IMDG)	Not regulated
Proper Shipping Name (IATA)	Not regulated
Proper Shipping Name (ADN)	Not regulated
Proper Shipping Name (RID)	Not regulated

#### 14.3 Transport hazard class(es)

Transport hazard class(es) (ADR)	Not regulated
Transport hazard class(es) (IMDG)	Not regulated
Transport hazard class(es) (IATA)	Not regulated
Transport hazard class(es) (ADN)	Not regulated
Transport hazard class(es) (RID)	Not regulated

#### 14.4 Packing group

Packing group	Not regulated
Packing group (IMDG)	Not regulated
Packing group (IATA)	Not regulated
Packing group (ADN)	Not regulated
Packing group (RID)	Not regulated

#### 14.5 Environmental hazards

Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available

### 14.6 Special precautions for user

Overland transport	Not regulated
Transport by sea	Not regulated
Air transport	Not regulated
Inland waterway transport	Not regulated
Rail transport	Not regulated

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable



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### SECTION 15: Regulatory information

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list  $\geq$  0,1 % / SCL

Contains no REACH Annex XIV substances

#### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other Information**

#### 16.1 Full text of H, EUH and P statements

None

N/A

#### 16.2 Training Advice

Regular safety training

#### 16.3 Abbreviations and acronyms

ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service number
CLP	Classification, Labeling and Packaging
DNEL	Derived No effect Limit
EC	European Community
EC50	Effective Concentration 50%
EN	European Norm
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
IMDG	International Maritime Dangerous Goods Code
IMO	International Maritime Organisation
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
MAC	Maximal Allowed Concentration
O/W	Oil-in-Water (chemistry)
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, bioaccumulative and toxic
PMcc	Pensky-Martens Closed Cup test
PNEC	Predicted no effect concentration
REACH	Registration, Evaluation and Authorisation of CHemicals
RID	Règlement concernant le transport international ferroviaire de marchandises
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
UNXXXX	Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods
vPvB	Very persistent and very bioaccumulative





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#### 16.4 Recommended Restriction on Use

Only for professional user working under controlled conditions.

Consider employee restrictions for young people (e.g. 94/33/EC)

Consider employee restrictions for pregnant women and nursing women (e.g. 92/85/EEC)

#### 16.5 Further Information

**Bioline Reagents Ltd**, part of Meridian Bioscience, provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

**Bioline Reagents Ltd**, part of Meridian Bioscience, makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers.

Accordingly, **Bioline Reagents Ltd**, Meridian Bioscience or other subsidiaries, will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

#### 16.6 Sources of Key Data

UK – Control of Substances Hazardous to Health Regulations 2002 (as amended). Health and Safety at Work etc. Act 1974 (as amended). Guidance Workplace Exposure Limits EH40.

EU – REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress. Legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC TRGS 900, German engineering rules governing limits in air at work, updated February 2015 SUVA .CH, Limits in air at work 2009, revised on 01.2009. KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)., updated October 2011

Republic of China – 职业病防治法

USA – Occupational Safety and Health Administration (OSHA) Occupational Exposure Limits - Table Z-1 Limits for Air Contaminants. The American Conference of Governmental Industrial Hygienists (ACGIH).

Australia - Work Health and Safety (WHS) Act and the WHS Regulations.

Canada – Hazardous Products Regulations SOR/2015-17



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		ince/mixture and of the company/undertaking	
1.1	Product identifier		
	Product form:	Mixture	
	Product name:	MgCl2 Solution 50mM	
	CAS No.:	N/A	
	EC No.:	N/A	
	REACH No.:	A registration number is not available for this substance as the	
		substance or its uses are exempted from registration, the annual	
		tonnage does not require a registration or the registration is	
		envisaged for a later registration deadline.	
1.2	Relevant identified uses of the substan	ce or mixture and uses advised against	
	Relevant identified uses:	Product for analytical use	
	Uses advised against:	Not described	
1.3	Details of the supplier of the safety data	a sheet	
	Bioline Reagents Ltd, part of Meridian Bios		
	Humber Road	Phone: +44 (0)20 8830 5300	
	London	Fax: +44 (0)20 8452 2822	
	NW2 6EW	E-mail: mbi.tech@meridianlifescience.com	
	United Kingdom		
1.4	Emergency telephone number		
	Emergency number:	+44 (0)1865 407 333 – English speaking (24 hours, 7 days)	
	Contact:	CareChem 24	
SEC	TION 2: Hazards identification		
2.1	Classification of the substance or mixture		
	MgCl2 Solution 50mM		
	Classification according to Regulation (EC) No 1272/2008		
	Not a hazardous substance or mixture		
2.2	Label elements		
	MgCl2 Solution 50mM		
	Labelling according Regulation (EC) No 1272/2008		
	Not a hazardous substance or mixture		
	Hazard Statements (CLP)	Precautionary Statements (CLP)	



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#### 2.3 Other hazards

#### Possible hazards from physicochemical properties:

Some hazards associated with individual components of this mixture are not relevant because the substances are present in concentrations below the GHS cut-off levels, change of physical state or because the mixture/ solution is buffered to pH 4-9 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.).

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1/3.2 Substance or Mixture

#### MgCl2 Solution 50mM

Name, synonyms and	Product Identifier	Composition	Classification according to
formulae			Regulation (EC) No.
			1272/2008 (CLP)
N/A	N/A	N/A	N/A

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

#### 3.3 Remarks

List of H, EUR and P phrases: see section 16

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

First-aid measures general	If necessary consult a physician. Show this safety data sheet to the medical professional in attendance.
First-aid measures after inhalation	Remove to fresh air, keep the patient warm and provide resuscitation if necessary. If symptoms develop, obtain medical attention.
First-aid measures after skin contact	Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.
First-aid measures after eye contact	After contact with the eyes rinse thoroughly with plenty of water for at least 15 minutes with the eyelid wide open.
First-aid measures after ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth and drink plenty of water.

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

The most important known symptoms and effects are described in the labelling section 2.2 and/or in section 11 Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3 Indication of any immediate medical attention and special treatment needed

No additional recommendations.



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#### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area.

Suitable extinguishing media	All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON
	DIOXIDE can be used.
Unsuitable extinguishing media	None known.

#### 5.2 Special hazards arising from the substance or mixture

Fire Hazard	Not flammable.
Hazardous decomposition products in	Hydrogen chloride gas, Magnesium oxide.
case of fire	

#### 5.3 Advice for firefighters

Firefighting instructions	Product package burns like paper or plastic.
	Spray any vapours released with water.
	Retain fire water where possible.
Protection during firefighting	Protective breathing apparatus, independent of the ambient air (isolated
	equipment), and sealed protective clothing is necessary in the event of large-
	scale formation of toxic substances.

#### 5.4 Additional Information

None.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Evacuate unnecessary personnel.
	Avoid breathing vapours, mist or gas.
	Avoid contact with skin, eyes and clothing.
	Regular staff training is necessary, indicating hazards and precautions on
	the basis of operating instructions.
	Restrictions on activity must be observed.
For emergency responders	Wear suitable protective equipment as defined in section 8.2
	Prevent further leakage or spillage if safe to do so.
	Avoid release of materials into the environment.

#### 6.2

#### Environmental precautions

No special environmental precautions required.



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#### 6.3 Methods and material for containment and cleaning up

Small Scale release	Make use of general chemical spill kit or other absorbent material.
	Clean any contaminated equipment and floors with plenty of water.
	Collect small amounts of leaked liquid and flush with copious amounts of
	water into drains.
Large Scale release	Bind any escaping liquid with inert absorbent material (sand, vermiculite or
	similar).
	Block/ prevent liquid entering any open drain.
	Collect contaminated materials and dispose in accordance to local
	regulations for the disposal of hazardous chemicals.

### 6.4 Reference to other sections

SECTION 5.4: Additional fire precautions. SECTION 8: Exposure controls/personal protection.

SECTION 13: Disposal considerations.

### SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Precautions for safe handling	Handling in accordance with the instructions supplied with the product.
	Provide adequate ventilation.
	Avoid breathing vapours, mist or gas.
	Avoid contact with skin, eyes and clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
	Take off contaminated clothing and wash before reuse.
	Wash hands and other exposed areas with mild soap and water before
	eating, drinking or smoking and when leaving work.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Keep only in the original container.	
	Store in a cool well ventilated place out of direct sunlight.
	Keep container closed when not in use.
Incompatible materials	Store separately from: Strong oxidizing agents.

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.



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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

MgCl2 Solution 50mM		
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	N/A
United Kingdom	WEL TWA (ppm)	N/A
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	N/A
United Kingdom	WEL STEL (ppm)	N/A
United Kingdom	Remark (WEL)	Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

Appropriate engineering controls:	Good ventilation or extraction system in the room, floor resistant to
repropriate engineering controle.	chemicals and washing facilities available.
O an and a surfacely	
General controls	Avoid all unnecessary exposure.
	Handle in accordance with good industrial hygiene and safety practice.
Respiratory protection	Respiratory protection not required.
	For nuisance exposures or if risk assessment requires, use type OV/AG (US)
	or type ABEK (EU EN 14387) respirator cartridges. Use respirators and
	components tested and approved under appropriate government standards
	such as NIOSH (US) or CEN (EU).
Eye protection	Use equipment for eye protection tested and approved under appropriate
	government standards such as NIOSH (US) or EN166 (EU) with integrated
	side shields or wrap-around protection.
Hand protection	Handle with gloves.
	Gloves must be inspected prior to use. Use proper glove removal technique
	(without touching glove's outer surface) to avoid skin contact with this
	product.
	Wear protective gloves that satisfy the specifications of EU Directive
	89/686/EEC and the standard EN374 derived from it.
	Exact breakthrough times to be found through the manufacturer of the
	protective gloves and must be observed.
	Gloves should be removed and replaced if there are any signs of
	degradation or breakthrough.
	5
	Splash contact – Material suggested Nitrile Rubber.
	Full contact – Material suggested Nitrile Rubber.
	If used in solution, or mixed with other substances, and under conditions
	which differ from EN374, contact the supplier of the CE approved gloves.
Skin and body protection	Long sleeved protective clothing.
Thermal protection	Not required for normal conditions of use.



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Other information	Eating, drinking, smoking, taking snuff and storage of food in work areas and
	at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and
	clothing. Rinse any clothing on which the substance has been spilled, and
	soak it in water. Wash hands thoroughly with soap and water when stopping
	work and before eating.

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

MgCl2 Solution 50mM	
Physical state:	Liquid
Colour:	Colourless
Molecular Mass:	No data available
Odour:	Odourless
Odour threshold:	No data available
pH:	No data available
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	Not applicable
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	~1.0 g/cm <sup>3</sup> (Water = 1)
Solubility:	No data available
Log Pow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Oxidising properties:	No data available
Explosive properties:	No data available
Explosive limits:	No data available

#### 9.2

#### Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

Relevant Properties of Substance Group:

None



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0.1	Reactivity
	Stable under normal conditions.
10.2	Chemical stability
	Stable under recommended conditions.
10.3	Possibility of hazardous reactions
	None known.
10.4	Conditions to avoid
	Extremely high or low temperatures.
10.5	Incompatible materials
	Strong oxidizing agents.
10.6	Hazardous decomposition products
	Hazardous decomposition products formed under fire conditions – Hydrogen chloride gas, Magnesium oxide.
	In the event of fire: see section 5
SECT	ION 11: Toxicological information
11.1	Information on toxicological effects

Magnesium chioride	
LD50 oral rat (OECD Test Guideline 423)	5,000 mg/kg
LD50 Dermal rat (OECD Test Guideline 402)	2,000 mg/kg
RTECS:	OM2800000

Quantitative data on the toxicity of this product is not available.

MgCl2 Solution 50mM	
Acute toxicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Carcinogenicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Reproductive toxicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	Not classified.
Additional information	Based on available data, the classification criteria are not met.



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Aspiration hazard	Not classified.
Additional information	Based on available data, the classification criteria are not
	met.
Potential adverse human health effects and	Not expected to present a significant hazard under
symptoms:	anticipated conditions of normal use.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Magnesium chloride	
Ecology - Water	Not Classified
LC50 - Pimephales promelas (fathead minnow) 96hr	2,119.3 mg/l
EC50 - Daphnia magna (Water flea) 48hr (OECD Test	548.4 mg/l
Guideline 202)	
EC50 - Desmodesmus subspicatus (Scenedesmus	100 mg/l
subspicatus) 72hr (OECD Test Guideline 201)	
EC50 - Sludge Treatment 3 h	> 900 mg/l
(OECD Test Guideline 209)	

Environmental hazards must not be labelled with P phrases until 125 mL or 125 g (EU 1272/2008 Annex I - 1.5.2).

#### 12.2 Persistence and degradability

Magnesium chloride	
Biodegradation	No data available

#### 12.3 **Bioaccumulative potential**

Magnesium chloride	
Bioconcentration factor (BCF REACH)	No additional information available
Log Pow	No data available

#### 12.4 Mobility in soil

Magnesium chloride	
Ecology - Soil	No data available

#### 12.5 Results of PBT and vPvB assessment

Magnesium chloride	
This substance/mixture does not meet the PBT c	iteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB	riteria of REACH regulation, annex XIII

#### 12.6 Other adverse effects

Magnesium chloride

No additional information available



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Waste disposal recommendations:	Product
	Offer surplus and non-recyclable solutions to a licensed disposal company.
	Contaminated packaging
	Dispose of as unused product.

### **SECTION 14: Transport information**

**SECTION 13: Disposal considerations** 

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1 UN number

UN-No. (ADR)	Not regulated
UN-No. (IMDG)	Not regulated
UN-No. (IATA)	Not regulated
UN-No. (ADN)	Not regulated
UN-No. (RID)	Not regulated

#### 14.2 UN proper shipping name

Proper Shipping Name	Not regulated
Proper Shipping Name (IMDG)	Not regulated
Proper Shipping Name (IATA)	Not regulated
Proper Shipping Name (ADN)	Not regulated
Proper Shipping Name (RID)	Not regulated

#### 14.3 Transport hazard class(es)

Transport hazard class(es) (ADR)	Not regulated
Transport hazard class(es) (IMDG)	Not regulated
Transport hazard class(es) (IATA)	Not regulated
Transport hazard class(es) (ADN)	Not regulated
Transport hazard class(es) (RID)	Not regulated

#### 14.4 Packing group

Packing group	Not regulated
Packing group (IMDG)	Not regulated
Packing group (IATA)	Not regulated
Packing group (ADN)	Not regulated
Packing group (RID)	Not regulated

#### 14.5 Environmental hazards

Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available

#### 14.6 Special precautions for user

Overland transport	Not regulated
Transport by sea	Not regulated
Air transport	Not regulated
Inland waterway transport	Not regulated
Rail transport	Not regulated



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14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list ≥ 0,1 % / SCL Contains no REACH Annex XIV substances

### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out

#### **SECTION 16: Other Information**

#### 16.1 Full text of H, EUH and P statements

None

N/A

16.2 Training Advice Regular safety training

#### 16.3 Abbreviations and acronyms

ATE       Acute Toxicity Estimate         CAS       Chemical Abstracts Service number         CLP       Classification, Labeling and Packaging         DNEL       Derived No effect Limit         EC       European Community         EC50       Effective Concentration 50%         EN       European Norm         IARC       International Agency for Research on Cancer         IATA       International Agency for Research on Cancer         IATA       International Agency for Research on Cancer         IMDG       International Maritime Dangerous Goods Code         IMO       International Maritime Organisation         LC50       Lethal Concentration 50%         LD50       Lethal Concentration 50%         MAC       Maximal Allowed Concentration         O/W       Oil-in-Water (chemistry)         OECD       Organisation for Economic Co-operation and Development         PBT       Persistent, bioaccumulative and toxic         PMcc       Pensky-Martens Closed Cup test         PNC       Predicted no effect concentration         REACH       Registration, Evaluation and Authorisation of CHemicals         RID       Règlement concernant le transport international ferroviaire de marchandises         STEL       Short Term Exposure Limit		1
CASChemical Abstracts Service numberCLPClassification, Labeling and PackagingDNELDerived No effect LimitECEuropean CommunityEC50Effective Concentration 50%ENEuropean NormIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIMDGInternational Maritime Dangerous Goods CodeIMOInternational Maritime OrganisationLC50Lethal Concentration 50%LD50Lethal Concentration 50%LD50Lethal Concentration 50%DC0Uganisation for Economic Co-operation and DevelopmentPBTPersistent, bioaccumulative and toxicPMccPensky-Martens Closed Cup testPNECPredicted no effect concentrationREACHRegistration, Evaluation and Authorisation of CHemicalsRIDRèglement concernant le transport international ferroviaire de marchandisesSTELShort Term Exposure LimitTWATime Weighted AverageUNXXXXNumber assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
CLPClassification, Labeling and PackagingDNELDerived No effect LimitECEuropean CommunityEC50Effective Concentration 50%ENEuropean NormIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIMDGInternational Maritime Dangerous Goods CodeIMDGInternational Maritime OrganisationLC50Lethal Concentration 50%LD50Lethal Concentration 50%LD50Lethal Concentration 50%DCCDOrganisation for Economic Co-operation and DevelopmentPBTPersistent, bioaccumulative and toxicPMccPensky-Martens Closed Cup testPNECPredicted no effect concentrationREACHRegistration, Evaluation and Authorisation of CHemicalsRIDRèglement concernant le transport international ferroviaire de marchandisesSTELShort Term Exposure LimitTWATime Weighted AverageUNXXXXNumber assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	ATE	
DNEL         Derived No effect Limit           EC         European Community           EC50         Effective Concentration 50%           EN         European Norm           IARC         International Agency for Research on Cancer           IATA         International Agency for Research on Cancer           IATA         International Air Transport Association           IBC         International Maritime Dangerous Goods Code           IMO         International Maritime Organisation           LC50         Lethal Concentration 50%           LD50         Lethal Concentration 50%           LD50         Lethal Dose 50%           MAC         Maximal Allowed Concentration           O/W         Oil-in-Water (chemistry)           OECD         Organisation for Economic Co-operation and Development           PBT         Persistent, bioaccumulative and toxic           PMcc         Pensky-Martens Closed Cup test           PNEC         Predicted no effect concentration           REACH         Registration, Evaluation and Authorisation of CHemicals           RID         Règlement concernant le transport international ferroviaire de marchandises           STEL         Short Term Exposure Limit           TWA         Time Weighted Average           UNXXX	CAS	Chemical Abstracts Service number
ECEuropean CommunityEC50Effective Concentration 50%ENEuropean NormIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Air Transport AssociationIBCIntermediate Bulk ContainerIMDGInternational Maritime Dangerous Goods CodeIMOInternational Maritime OrganisationLC50Lethal Concentration 50%LD50Lethal Dose 50%MACMaximal Allowed ConcentrationO/WOil-in-Water (chemistry)OECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent, bioaccumulative and toxicPMccPensky-Martens Closed Cup testPNECPredicted no effect concentrationREACHRegistration, Evaluation and Authorisation of CHemicalsRIDRèglement concernant le transport international ferroviaire de marchandisesSTELShort Term Exposure LimitTWATime Weighted AverageUNXXXXNumber assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	CLP	Classification, Labeling and Packaging
EC50Effective Concentration 50%ENEuropean NormIARCInternational Agency for Research on CancerIATAInternational Air Transport AssociationIBCInternediate Bulk ContainerIMDGInternational Maritime Dangerous Goods CodeIMOInternational Maritime OrganisationLC50Lethal Concentration 50%LD50Lethal Concentration 50%MACMaximal Allowed ConcentrationO/WOil-in-Water (chemistry)OECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent, bioaccumulative and toxicPMccPensky-Martens Closed Cup testPNECPredicted no effect concentrationREACHRegistration, Evaluation and Authorisation of CHemicalsRIDRèglement concernant le transport international ferroviaire de marchandisesSTELShort Term Exposure LimitTWATime Weighted AverageUNXXXXNumber assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	DNEL	Derived No effect Limit
ENEuropean NormIARCInternational Agency for Research on CancerIATAInternational Air Transport AssociationIBCInternational Air Transport AssociationIBCInternational Maritime Dangerous Goods CodeIMOInternational Maritime OrganisationLC50Lethal Concentration 50%LD50Lethal Dose 50%MACMaximal Allowed ConcentrationO/WOil-in-Water (chemistry)OECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent, bioaccumulative and toxicPMccPensky-Martens Closed Cup testPNECPredicted no effect concentrationREACHRegistration, Evaluation and Authorisation of CHemicalsRIDRèglement concernant le transport international ferroviaire de marchandisesSTELShort Term Exposure LimitTWATime Weighted AverageUNXXXXNumber assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	EC	European Community
IARCInternational Agency for Research on CancerIATAInternational Air Transport AssociationIBCInternational Maritime Dangerous Goods CodeIMDGInternational Maritime Dangerous Goods CodeIMOInternational Maritime OrganisationLC50Lethal Concentration 50%LD50Lethal Dose 50%MACMaximal Allowed ConcentrationO/WOil-in-Water (chemistry)OECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent, bioaccumulative and toxicPMccPensky-Martens Closed Cup testPNECPredicted no effect concentrationREACHRegistration, Evaluation and Authorisation of CHemicalsRIDRèglement concernant le transport international ferroviaire de marchandisesSTELShort Term Exposure LimitTWATime Weighted AverageUNXXXXNumber assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	EC50	Effective Concentration 50%
IATAInternational Air Transport AssociationIBCIntermediate Bulk ContainerIMDGInternational Maritime Dangerous Goods CodeIMOInternational Maritime OrganisationLC50Lethal Concentration 50%LD50Lethal Dose 50%MACMaximal Allowed ConcentrationO/WOil-in-Water (chemistry)OECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent, bioaccumulative and toxicPMccPensky-Martens Closed Cup testPNECPredicted no effect concentrationREACHRegistration, Evaluation and Authorisation of CHemicalsRIDRèglement concernant le transport international ferroviaire de marchandisesSTELShort Term Exposure LimitTWATime Weighted AverageUNXXXXNumber assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	EN	European Norm
IBCIntermediate Bulk ContainerIMDGInternational Maritime Dangerous Goods CodeIMOInternational Maritime OrganisationLC50Lethal Concentration 50%LD50Lethal Dose 50%MACMaximal Allowed ConcentrationO/WOil-in-Water (chemistry)OECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent, bioaccumulative and toxicPMccPensky-Martens Closed Cup testPNECPredicted no effect concentrationREACHRegistration, Evaluation and Authorisation of CHemicalsRIDRèglement concernant le transport international ferroviaire de marchandisesSTELShort Term Exposure LimitTWATime Weighted AverageUNXXXXNumber assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	IARC	International Agency for Research on Cancer
IMDGInternational Maritime Dangerous Goods CodeIMOInternational Maritime OrganisationLC50Lethal Concentration 50%LD50Lethal Dose 50%MACMaximal Allowed ConcentrationO/WOil-in-Water (chemistry)OECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent, bioaccumulative and toxicPMccPensky-Martens Closed Cup testPNECPredicted no effect concentrationREACHRegistration, Evaluation and Authorisation of CHemicalsRIDRèglement concernant le transport international ferroviaire de marchandisesSTELShort Term Exposure LimitTWATime Weighted AverageUNXXXXNumber assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	ΙΑΤΑ	International Air Transport Association
IMOInternational Maritime OrganisationLC50Lethal Concentration 50%LD50Lethal Dose 50%MACMaximal Allowed ConcentrationO/WOil-in-Water (chemistry)OECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent, bioaccumulative and toxicPMccPensky-Martens Closed Cup testPNECPredicted no effect concentrationREACHRegistration, Evaluation and Authorisation of CHemicalsRIDRèglement concernant le transport international ferroviaire de marchandisesSTELShort Term Exposure LimitTWATime Weighted AverageUNXXXXNumber assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	IBC	Intermediate Bulk Container
LC50Lethal Concentration 50%LD50Lethal Dose 50%MACMaximal Allowed ConcentrationO/WOil-in-Water (chemistry)OECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent, bioaccumulative and toxicPMccPensky-Martens Closed Cup testPNECPredicted no effect concentrationREACHRegistration, Evaluation and Authorisation of CHemicalsRIDRèglement concernant le transport international ferroviaire de marchandisesSTELShort Term Exposure LimitTWATime Weighted AverageUNXXXXNumber assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	IMDG	International Maritime Dangerous Goods Code
LD50       Lethal Dose 50%         MAC       Maximal Allowed Concentration         O/W       Oil-in-Water (chemistry)         OECD       Organisation for Economic Co-operation and Development         PBT       Persistent, bioaccumulative and toxic         PMcc       Pensky-Martens Closed Cup test         PNEC       Predicted no effect concentration         REACH       Registration, Evaluation and Authorisation of CHemicals         RID       Règlement concernant le transport international ferroviaire de marchandises         STEL       Short Term Exposure Limit         TWA       Time Weighted Average         UNXXXX       Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	IMO	International Maritime Organisation
MAC       Maximal Allowed Concentration         O/W       Oil-in-Water (chemistry)         OECD       Organisation for Economic Co-operation and Development         PBT       Persistent, bioaccumulative and toxic         PMcc       Pensky-Martens Closed Cup test         PNEC       Predicted no effect concentration         REACH       Registration, Evaluation and Authorisation of CHemicals         RID       Règlement concernant le transport international ferroviaire de marchandises         STEL       Short Term Exposure Limit         TWA       Time Weighted Average         UNXXXX       Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	LC50	Lethal Concentration 50%
O/W       Oil-in-Water (chemistry)         OECD       Organisation for Economic Co-operation and Development         PBT       Persistent, bioaccumulative and toxic         PMcc       Pensky-Martens Closed Cup test         PNEC       Predicted no effect concentration         REACH       Registration, Evaluation and Authorisation of CHemicals         RID       Règlement concernant le transport international ferroviaire de marchandises         STEL       Short Term Exposure Limit         TWA       Time Weighted Average         UNXXXX       Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	LD50	Lethal Dose 50%
OECD         Organisation for Economic Co-operation and Development           PBT         Persistent, bioaccumulative and toxic           PMcc         Pensky-Martens Closed Cup test           PNEC         Predicted no effect concentration           REACH         Registration, Evaluation and Authorisation of CHemicals           RID         Règlement concernant le transport international ferroviaire de marchandises           STEL         Short Term Exposure Limit           TWA         Time Weighted Average           UNXXXX         Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	MAC	Maximal Allowed Concentration
PBT       Persistent, bioaccumulative and toxic         PMcc       Pensky-Martens Closed Cup test         PNEC       Predicted no effect concentration         REACH       Registration, Evaluation and Authorisation of CHemicals         RID       Règlement concernant le transport international ferroviaire de marchandises         STEL       Short Term Exposure Limit         TWA       Time Weighted Average         UNXXXX       Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	O/W	Oil-in-Water (chemistry)
PMcc       Pensky-Martens Closed Cup test         PNEC       Predicted no effect concentration         REACH       Registration, Evaluation and Authorisation of CHemicals         RID       Règlement concernant le transport international ferroviaire de marchandises         STEL       Short Term Exposure Limit         TWA       Time Weighted Average         UNXXXX       Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	OECD	Organisation for Economic Co-operation and Development
PNEC         Predicted no effect concentration           REACH         Registration, Evaluation and Authorisation of CHemicals           RID         Règlement concernant le transport international ferroviaire de marchandises           STEL         Short Term Exposure Limit           TWA         Time Weighted Average           UNXXXX         Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	PBT	Persistent, bioaccumulative and toxic
REACH       Registration, Evaluation and Authorisation of CHemicals         RID       Règlement concernant le transport international ferroviaire de marchandises         STEL       Short Term Exposure Limit         TWA       Time Weighted Average         UNXXXX       Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	PMcc	Pensky-Martens Closed Cup test
RID         Règlement concernant le transport international ferroviaire de marchandises           STEL         Short Term Exposure Limit           TWA         Time Weighted Average           UNXXXX         Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	PNEC	Predicted no effect concentration
STEL         Short Term Exposure Limit           TWA         Time Weighted Average           UNXXXX         Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	REACH	Registration, Evaluation and Authorisation of CHemicals
TWA         Time Weighted Average           UNXXXX         Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	RID	Règlement concernant le transport international ferroviaire de marchandises
UNXXXX Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	STEL	Short Term Exposure Limit
	TWA	Time Weighted Average
VPVR Vory porsistant and yony bioaccumulative	UNXXXX	Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods
	vPvB	Very persistent and very bioaccumulative



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#### 16.4 Recommended Restriction on Use

Only for professional user working under controlled conditions.

Consider employee restrictions for young people (e.g. 94/33/EC)

Consider employee restrictions for pregnant women and nursing women (e.g. 92/85/EEC)

#### 16.5 Further Information

**Bioline Reagents Ltd**, part of Meridian Bioscience, provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

**Bioline Reagents Ltd**, part of Meridian Bioscience, makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers.

Accordingly, **Bioline Reagents Ltd**, Meridian Bioscience or other subsidiaries, will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

#### 16.6 Sources of Key Data

UK – Control of Substances Hazardous to Health Regulations 2002 (as amended). Health and Safety at Work etc. Act 1974 (as amended). Guidance Workplace Exposure Limits EH40.

EU – REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress. Legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC TRGS 900, German engineering rules governing limits in air at work, updated February 2015 SUVA .CH, Limits in air at work 2009, revised on 01.2009. KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)., updated October 2011

Republic of China – 职业病防治法

USA – Occupational Safety and Health Administration (OSHA) Occupational Exposure Limits - Table Z-1 Limits for Air Contaminants. The American Conference of Governmental Industrial Hygienists (ACGIH).

Australia - Work Health and Safety (WHS) Act and the WHS Regulations.

Canada - Hazardous Products Regulations SOR/2015-17



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1.1	Product identifier				
	Product form:	Mixture			
	Product name:	dNTP Mix, 10mM			
	CAS No.:	N/A			
	EC No.:	N/A			
	REACH No.:	A registration number is not available for this substance as the			
		substance or its uses are exempted from registration, the annual			
		tonnage does not require a registration or the registration is			
		envisaged for a later registration deadline.			
1.2	Relevant identified uses of the substance	or mixture and uses advised against			
	Relevant identified uses:	Product for analytical use			
	Uses advised against:	Not described			
1.3	Details of the supplier of the safety data s	heet			
	Bioline Reagents Ltd, part of Meridian Biosci	ence			
	Humber Road	Phone: +44 (0)20 8830 5300			
	London	Fax: +44 (0)20 8452 2822			
	NW2 6EW	E-mail: mbi.tech@meridianlifescience.com			
	United Kingdom				
1.4	Emergency telephone number				
	Emergency number:	+44 (0)1865 407 333 – English speaking (24 hours, 7 days)			
	Contact:	CareChem 24			
SEC	TION 2: Hazards identification				
2.1	Classification of the substance or mixture				
	dNTP Mix, 10mM				
	Classification according to Regulation (EC) No 1272/2008				
	Not a hazardous substance or mixture				
2.2	Label elements				
	dNTP Mix, 10mM				
	Labelling according Regulation (EC) No 1272/2008				
		Not a hazardous substance or mixture			
	Not a hazardous substance or mixture				
	Not a hazardous substance or mixture Hazard Statements (CLP)	Precautionary Statements (CLP)			



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#### 2.3 Other hazards

#### Possible hazards from physicochemical properties:

Some hazards associated with individual components of this mixture are not relevant because the substances are present in concentrations below the GHS cut-off levels, change of physical state or because the mixture/ solution is buffered to pH 4-9 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.).

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

### 3.1/3.2 Substance or Mixture

#### dNTP Mix, 10mM

Name, synonyms and	Product Identifier	Composition	Classification according to
formulae			Regulation (EC) No.
			1272/2008 (CLP)
N/A	N/A	N/A	N/A

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

#### 3.3 Remarks

List of H, EUR and P phrases: see section 16

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

First-aid measures general	If necessary consult a physician. Show this safety data sheet to the medical professional in attendance.	
First-aid measures after inhalation	Remove to fresh air, keep the patient warm and provide resuscitation if necessary. If symptoms develop, obtain medical attention.	
First-aid measures after skin contact	Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.	
First-aid measures after eye contact	After contact with the eyes rinse thoroughly with plenty of water for at least 15 minutes with the eyelid wide open.	
First-aid measures after ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth and drink plenty of water.	

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

The most important known symptoms and effects are described in the labelling section 2.2 and/or in section 11 Not expected to present a significant hazard under anticipated conditions of normal use. May cause slight irritation to eyes.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No additional recommendations.



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#### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area.

Suitable extinguishing media	All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON	
	DIOXIDE can be used.	
Unsuitable extinguishing media	None known.	

#### 5.2 Special hazards arising from the substance or mixture

Fire Hazard	Not flammable.
Hazardous decomposition products in case of fire	Carbon oxides, Nitrogen oxides, Phosphorus oxides, Lithium oxides.

#### 5.3 Advice for firefighters

Firefighting instructions	structions Product package burns like paper or plastic.	
	Spray any vapours released with water.	
	Retain fire water where possible.	
Protection during firefighting	Protective breathing apparatus, independent of the ambient air (isolated	
	equipment), and sealed protective clothing is necessary in the event of large-	
	scale formation of toxic substances.	

#### 5.4 Additional Information

None.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Evacuate unnecessary personnel.
	Avoid breathing vapours, mist or gas.
	Avoid contact with skin, eyes and clothing.
	Regular staff training is necessary, indicating hazards and precautions on
	the basis of operating instructions.
	Restrictions on activity must be observed.
For emergency responders	Wear suitable protective equipment as defined in section 8.2
	Prevent further leakage or spillage if safe to do so.
	Avoid release of materials into the environment.

#### 6.2

#### Environmental precautions

Notify authorities if large amounts of the product enters sewers or public waters.



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#### 6.3 Methods and material for containment and cleaning up

Small Scale release	Make use of general chemical spill kit or other absorbent material.	
	Clean any contaminated equipment and floors with plenty of water.	
	Collect small amounts of leaked liquid and flush with copious amounts of	
	water into drains.	
Large Scale release	Bind any escaping liquid with inert absorbent material (sand, vermiculite or	
	similar).	
	Block/ prevent liquid entering any open drain.	
	Collect contaminated materials and dispose in accordance to local	
	regulations for the disposal of hazardous chemicals.	

#### 6.4 Reference to other sections

SECTION 5.4: Additional fire precautions.

SECTION 8: Exposure controls/personal protection.

SECTION 13: Disposal considerations.

### SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

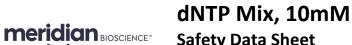
Precautions for safe handling	Handling in accordance with the instructions supplied with the product.
	Provide adequate ventilation.
	Avoid breathing vapours, mist or gas.
	Avoid contact with skin, eyes and clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
	Take off contaminated clothing and wash before reuse.
	Wash hands and other exposed areas with mild soap and water before
	eating, drinking or smoking and when leaving work.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Keep only in the original container.	
	Store in a cool well ventilated place out of direct sunlight.	
	Keep container closed when not in use.	
Incompatible materials	Store separately from: Strong oxidizing agents, Acids, Aluminium, Zinc.	

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.



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

#### 8.1 **Control parameters**

dNTP Mix, 10mM		
United Kingdom	WEL TWA (mg/m³)	N/A
United Kingdom	WEL TWA (ppm)	N/A
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	N/A
United Kingdom	WEL STEL (ppm)	N/A
United Kingdom	Remark (WEL)	Contains no substances with occupational exposure limit values.

#### 8.2 **Exposure controls**

Appropriate engineering controls:	Good ventilation or extraction system in the room, floor resistant to
	chemicals and washing facilities available.
General controls	Avoid all unnecessary exposure.
	Handle in accordance with good industrial hygiene and safety practice.
Despiratory protection	
Respiratory protection	Respiratory protection not required.
	For nuisance exposures or if risk assessment requires, use type OV/AG (US)
	or type ABEK (EU EN 14387) respirator cartridges. Use respirators and
	components tested and approved under appropriate government standards
	such as NIOSH (US) or CEN (EU).
Eye protection	Use equipment for eye protection tested and approved under appropriate
	government standards such as NIOSH (US) or EN166 (EU) with integrated
	side shields or wrap-around protection.
Hand protection	Handle with gloves.
	Gloves must be inspected prior to use. Use proper glove removal technique
	(without touching glove's outer surface) to avoid skin contact with this
	product.
	Wear protective gloves that satisfy the specifications of EU Directive
	89/686/EEC and the standard EN374 derived from it.
	Exact breakthrough times to be found through the manufacturer of the
	protective gloves and must be observed.
	Gloves should be removed and replaced if there are any signs of
	degradation or breakthrough.
	Splash contact – Material suggested Nitrile Rubber.
	Full contact – Material suggested Nitrile Rubber.
	If used in solution, or mixed with other substances, and under conditions
	which differ from EN374, contact the supplier of the CE approved gloves.
Skin and body protection	Long sleeved protective clothing.
	5 ,g.



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Thermal protection	Not required for normal conditions of use.
Other information	Eating, drinking, smoking, taking snuff and storage of food in work areas and
	at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and
	clothing. Rinse any clothing on which the substance has been spilled, and
	soak it in water. Wash hands thoroughly with soap and water when stopping
	work and before eating.

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

dNTP Mix, 10mM		
Physical state:	Liquid	
Colour:	Colourless	
Molecular Mass:	No data available	
Odour:	Odourless	
Odour threshold:	No data available	
pH:	7.5	
Relative evaporation rate (butylacetate=1):	No data available	
Melting point:	No data available	
Freezing point:	No data available	
Boiling point:	No data available	
Flash point:	No data available	
Auto-ignition temperature:	No data available	
Decomposition temperature:	No data available	
Flammability (solid, gas):	Not applicable	
Vapour pressure:	No data available	
Relative vapour density at 20 °C:	No data available	
Relative density:	~1.0 g/cm³ (Water = 1)	
Solubility:	No data available	
Log Pow:	No data available	
Viscosity, kinematic:	No data available	
Viscosity, dynamic:	No data available	
Oxidising properties:	No data available	
Explosive properties:	No data available	
Explosive limits:	No data available	

#### 9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

Relevant Properties of Substance Group:



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10.1	Reactivity
	Stable under normal conditions.
10.2	Chemical stability
	Stable under recommended conditions.
10.3	Possibility of hazardous reactions
	None known.
10.4	Conditions to avoid
	Extremely high or low temperatures.
10.5	Incompatible materials
	Strong oxidizing agents, Acids, Aluminium, Zinc.
10.6	Hazardous decomposition products
	Hazardous decomposition products formed under fire conditions - Carbon oxides, Nitrogen oxides, Phosphorus oxides, Lithium
	oxides.
	In the event of fire: see section 5

### SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Quantitative data on the toxicity of this product is not available.

dNTP Mix, 10mM		
Acute toxicity	Not classified.	
Additional information	Based on available data, the classification criteria are not met.	
Skin corrosion/irritation	Not classified.	
Additional information	Based on available data, the classification criteria are not met.	
Serious eye damage/irritation	Not classified.	
Additional information	Based on available data, the classification criteria are not met.	
Respiratory or skin sensitisation	Not classified.	
Additional information	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	Not classified.	
Additional information	Based on available data, the classification criteria are not met.	
Carcinogenicity	Not classified.	
Additional information	Based on available data, the classification criteria are not met.	
Reproductive toxicity	Not classified.	
Additional information	Based on available data, the classification criteria are not met.	
Specific target organ toxicity (single exposure)	Not classified.	
Additional information	Based on available data, the classification criteria are not met.	
Aspiration hazard	Not classified.	
Additional information	Based on available data, the classification criteria are not met.	
Potential adverse human health effects and	Not expected to present a significant hazard under	
symptoms:	anticipated conditions of normal use.	



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#### SECTION 12: Ecological information

#### 12.1 Toxicity

dNTP Mix, 10mM	
Ecology - Water	Not Classified

Environmental hazards must not be labelled with P phrases until 125 mL or 125 g (EU 1272/2008 Annex I - 1.5.2).

#### 12.2 Persistence and degradability

dNTP Mix, 10mM	
Biodegradation	No data available

#### 12.3 Bioaccumulative potential

dNTP Mix, 10mM	
Bioconcentration factor (BCF REACH)	No additional information available
Log Pow	Not applicable

#### 12.4 Mobility in soil

dNTP Mix, 10mM	
Ecology - Soil	No data available.

#### 12.5 Results of PBT and vPvB assessment

dNTP Mix, 10mM
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### 12.6 Other adverse effects

dNTP Mix, 10mM

No additional information available.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Waste disposal recommendations:	Product
	Offer surplus and non-recyclable solutions to a licensed disposal company.
	Contaminated packaging
	Dispose of as unused product.



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### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1 UN number

UN-No. (ADR)	Not regulated	
UN-No. (IMDG)	Not regulated	
UN-No. (IATA)	Not regulated	
UN-No. (ADN)	Not regulated	
UN-No. (RID)	Not regulated	

#### 14.2 UN proper shipping name

Proper Shipping Name	Not regulated
Proper Shipping Name (IMDG)	Not regulated
Proper Shipping Name (IATA)	Not regulated
Proper Shipping Name (ADN)	Not regulated
Proper Shipping Name (RID)	Not regulated

#### 14.3 Transport hazard class(es)

Transport hazard class(es) (ADR)	Not regulated
Transport hazard class(es) (IMDG)	Not regulated
Transport hazard class(es) (IATA)	Not regulated
Transport hazard class(es) (ADN)	Not regulated
Transport hazard class(es) (RID)	Not regulated

#### 14.4 Packing group

Packing group	Not regulated
Packing group (IMDG)	Not regulated
Packing group (IATA)	Not regulated
Packing group (ADN)	Not regulated
Packing group (RID)	Not regulated

#### 14.5 Environmental hazards

Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available

### 14.6 Special precautions for user

Overland transport	Not regulated
Transport by sea	Not regulated
Air transport	Not regulated
Inland waterway transport	Not regulated
Rail transport	Not regulated

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable



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### SECTION 15: Regulatory information

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list ≥ 0,1 % / SCL

Contains no REACH Annex XIV substances

#### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out

#### **SECTION 16: Other Information**

#### 16.1 Full text of H, EUH and P statements

None

N/A

#### 16.2 Training Advice

Regular safety training

#### 16.3 Abbreviations and acronyms

ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service number
CLP	Classification, Labeling and Packaging
DNEL	Derived No effect Limit
EC	European Community
EC50	Effective Concentration 50%
EN	European Norm
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
IMDG	International Maritime Dangerous Goods Code
IMO	International Maritime Organisation
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
MAC	Maximal Allowed Concentration
O/W	Oil-in-Water (chemistry)
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, bioaccumulative and toxic
PMcc	Pensky-Martens Closed Cup test
PNEC	Predicted no effect concentration
REACH	Registration, Evaluation and Authorisation of CHemicals
RID	Règlement concernant le transport international ferroviaire de marchandises
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
UNXXXX	Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods
vPvB	Very persistent and very bioaccumulative

#### 16.4 Recommended Restriction on Use

Only for professional user working under controlled conditions.

Consider employee restrictions for young people (e.g. 94/33/EC)

Consider employee restrictions for pregnant women and nursing women (e.g. 92/85/EEC)



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#### 16.5 Further Information

**Bioline Reagents Ltd**, part of Meridian Bioscience, provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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#### 16.6 Sources of Key Data

UK – Control of Substances Hazardous to Health Regulations 2002 (as amended). Health and Safety at Work etc. Act 1974 (as amended). Guidance Workplace Exposure Limits EH40.

EU – REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress. Legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC TRGS 900, German engineering rules governing limits in air at work, updated February 2015 SUVA .CH, Limits in air at work 2009, revised on 01.2009. KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)., updated October 2011

Republic of China – 职业病防治法

USA – Occupational Safety and Health Administration (OSHA) Occupational Exposure Limits - Table Z-1 Limits for Air Contaminants. The American Conference of Governmental Industrial Hygienists (ACGIH).

Australia - Work Health and Safety (WHS) Act and the WHS Regulations.

Canada - Hazardous Products Regulations SOR/2015-17