

Safety Data Sheet

MDX072

Fast qPCR Mix 5x



Fast qPCR Mix 5x

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Date of original issue: 12/06/2019 Current revision: 12/06/2019 Version 1.0 Supersedes: None Version: N/A

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

1.1 Product identifier

Product form:	Mixture
Product name:	Fast qPCR Mix 5x
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 sheet

Bioline Reagents Ltd.	
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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302
Serious eye damage (Category 1), H318
Chronic aquatic toxicity (Category 1), H410

2.2 Label elements

According to **CLP (GHS)** inner packages must be only labelled with symbol(s) and product identifier (EU 1272/2008 Annex I - 1.5.1.2).

Harmful chemicals/mixtures with signal word: **WARNING** must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2).

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Labelling according Regulation (EC) No 1272/2008



GHS Pictogram:

Signal word: DANGER

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Hazard Statements (CLP)	Precautionary Statements (CLP)
H302 – Harmful if swallowed. H318 – Causes serious eye damage. H410 – Very toxic to aquatic life with long lasting effects.	P280 – Wear eye protection/ face protection. P301, P312 & P330 – IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. P305, P351, P338 & P310 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

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

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Name, synonyms and formulae	Product Identifier	Composition	Classification according to Regulation (EC) No. 1272/2008 (CLP)
<i>t</i> -Octylphenoxy polyethoxy ethanol-4-(1,1,3,3-Tetramethylbutyl)phenyl polyethylene Glycol Polyethylene glycol <i>tert</i> -octylphenyl ether (C ₂ H ₄ O) _n C ₁₄ H ₂₂ O	(CAS No.) 9002-93-1 (EC No.) 618-344-0 p-tertiary-Octylphenoxy polyethyl alcohol Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)	<5%	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H315, H318, H400, H410 M-Factor - Aquatic Acute: 10
Glycerol, 1,2,3-Propanetriol C ₃ H ₈ O ₃	(CAS No.) 56-81-5 (EC No.) 200-289-5	<15%	Not a hazardous substance or mixture

3.3 Remarks

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

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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
 After contact with eyes can lead to serious eye damage.
 Toxic if swallowed.

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 case of fire	Carbon oxides, Nitrogen oxides, Hydrogen chloride gas, Phosphorus oxides, Potassium oxides, Magnesium oxide, Sulphur oxides, Hydrogen sulfide gas, Lithium 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.

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5.4 Additional Information

None.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

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

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

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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, Acid chlorides, Phosphorus halides.

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Glycerol		
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³
United Kingdom	WEL TWA (ppm)	N/A
United Kingdom	WEL STEL (mg/m ³)	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)phenyl polyethylene glycol		
United Kingdom	WEL TWA (mg/m ³)	N/A
United Kingdom	WEL TWA (ppm)	N/A
United Kingdom	WEL STEL (mg/m ³)	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.

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Hand protection	<p>Handle with gloves.</p> <p>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.</p> <p>Wear protective gloves that satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.</p> <p>Exact breakthrough times to be found through the manufacturer of the protective gloves and must be observed.</p> <p>Gloves should be removed and replaced if there are any signs of degradation or breakthrough.</p> <p>If used in solution, or mixed with other substances, and under conditions which differ from EN374, contact the supplier of the CE approved gloves.</p>
Skin and body protection	Long sleeved protective clothing.
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

Fast qPCR Mix 5x	
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 ³ (Water = 1)
Solubility:	No data available

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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

SECTION 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

Bases, Oxidizing agents, Reducing agents, Alkali metals, Strong Acids, Acid chlorides, Phosphorus halides.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – Carbon oxides, Nitrogen oxides, Hydrogen chloride gas, Phosphorus oxides, Potassium oxides, Magnesium oxide, Sulphur oxides, Hydrogen sulfide gas, Lithium 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

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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	3,000 mg/kg
RTECS:	Not available

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

Fast qPCR Mix 5x	
Acute toxicity	Oral Category 4
Additional information	Based on concentration of 4-(1,1,3,3-Tetramethylbutyl)phenyl polyethylene glycol in mixture.
Skin corrosion/irritation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Eye damage Category 1
Additional information	Based on concentration of 4-(1,1,3,3-Tetramethylbutyl)phenyl polyethylene glycol in mixture.
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 symptoms:	Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12: Ecological information

12.1 Toxicity

Glycerol	
Ecology - Water	Not Classified
LC50 – Fish (<i>Salmo gairdneri</i>) 96hr	54,000 mg/l
LC50 - Bacteria, activated sludge	> 1,000 mg/l
EC50 – Daphnia (<i>daphnia magna</i> , locomotor effect) 24hr	> 10,000 mg/l
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 <i>Pimephales promelas</i> (fathead minnow) 96hr	4-8.9 mg/l
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).

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	Not applicable

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	

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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.

SECTION 14: Transport information

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

14.1 UN number

UN-No. (ADR)	3082
UN-No. (IMDG)	3082
UN-No. (IATA)	3082
UN-No. (ADN)	3082
UN-No. (RID)	3082

14.2 UN proper shipping name

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-tertiary-Octylphenoxy polyethyl alcohol)
Proper Shipping Name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-tertiary-Octylphenoxy polyethyl alcohol)
Proper Shipping Name (IATA)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-tertiary-Octylphenoxy polyethyl alcohol)
Proper Shipping Name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-tertiary-Octylphenoxy polyethyl alcohol)
Proper Shipping Name (RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-tertiary-Octylphenoxy polyethyl alcohol)

14.3 Transport hazard class(es)

Transport hazard class(es) (ADR)	9
Transport hazard class(es) (IMDG)	9
Transport hazard class(es) (IATA)	9
Transport hazard class(es) (ADN)	9
Transport hazard class(es) (RID)	9

14.4 Packing group

Packing group	III
Packing group (IMDG)	III
Packing group (IATA)	III
Packing group (ADN)	III
Packing group (RID)	III

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14.5 Environmental hazards

Dangerous for the environment	Yes
Marine pollutant	Yes
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

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

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.
P280	Wear protective gloves/ eye protection.
P301, P312 & P330	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P305, P351, P338 & P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

16.2 Training Advice

Regular safety training

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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
OW	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)

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.

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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.