Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

SAFETY DATA SHEET

Agilent Technologies

PfuUltra High-Fidelity DNA Polymerase AD, Part Number 600385

Section 1. Identification

Product identifier : PfuUltra High-Fidelity DNA Polymerase AD, Part Number 600385

Part no. (chemical kit) : 600385

Part no. : PfuUltra DNA Polymerase AD 600385-51
10X PfuUltra Reaction Buffer AD 600385-52

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

Material uses : Analytical reagent.

PfuUltra DNA Polymerase AD 0.04 ml (100 U 2.5 U/µl)
10X PfuUltra Reaction Buffer AD 1 ml

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

10X PfuUltra Reaction Buffer AD — Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2%

GHS label elements

Signal word :
PfuUltra DNA Polymerase AD — No signal word.
10X PfuUltra Reaction Buffer AD — No signal word.

Hazard statements :
PfuUltra DNA Polymerase AD — No known significant effects or critical hazards.
10X PfuUltra Reaction Buffer AD — No known significant effects or critical hazards.

Precautionary statements

Prevention :
PfuUltra DNA Polymerase AD — Not applicable.
10X PfuUltra Reaction Buffer AD — Not applicable.

Response :
PfuUltra DNA Polymerase AD — Not applicable.
10X PfuUltra Reaction Buffer AD — Not applicable.

Storage :
PfuUltra DNA Polymerase AD — Not applicable.
10X PfuUltra Reaction Buffer AD — Not applicable.

Section 2. Hazard(s) identification

Disposal : PfuUltra DNA Polymerase AD — Not applicable.
10X PfuUltra Reaction Buffer AD — Not applicable.

Supplemental label elements

Additional warning phrases : PfuUltra DNA Polymerase AD — Not applicable.
10X PfuUltra Reaction Buffer AD — Not applicable.

Other hazards which do not result in classification : PfuUltra DNA Polymerase AD — None known.
10X PfuUltra Reaction Buffer AD — None known.

Section 3. Composition and ingredient information

Substance/mixture : PfuUltra DNA Polymerase AD — Mixture
10X PfuUltra Reaction Buffer AD — Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
PfuUltra DNA Polymerase AD		
Glycerol	≥30 - ≤60	56-81-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : PfuUltra DNA Polymerase AD — Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
10X PfuUltra Reaction Buffer AD — Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : PfuUltra DNA Polymerase AD — Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
10X PfuUltra Reaction Buffer AD — Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : PfuUltra DNA Polymerase AD — Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
10X PfuUltra Reaction Buffer AD — Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Section 4. First aid measures

Ingestion	:	PfuUltra DNA Polymerase AD	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
		10X PfuUltra Reaction Buffer AD	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	PfuUltra DNA Polymerase AD	No known significant effects or critical hazards.
		10X PfuUltra Reaction Buffer AD	No known significant effects or critical hazards.
Inhalation	:	PfuUltra DNA Polymerase AD	No known significant effects or critical hazards.
		10X PfuUltra Reaction Buffer AD	No known significant effects or critical hazards.
Skin contact	:	PfuUltra DNA Polymerase AD	No known significant effects or critical hazards.
		10X PfuUltra Reaction Buffer AD	No known significant effects or critical hazards.
Ingestion	:	PfuUltra DNA Polymerase AD	No known significant effects or critical hazards.
		10X PfuUltra Reaction Buffer AD	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	PfuUltra DNA Polymerase AD	No specific data.
		10X PfuUltra Reaction Buffer AD	No specific data.
Inhalation	:	PfuUltra DNA Polymerase AD	No specific data.
		10X PfuUltra Reaction Buffer AD	No specific data.
Skin contact	:	PfuUltra DNA Polymerase AD	No specific data.
		10X PfuUltra Reaction Buffer AD	No specific data.
Ingestion	:	PfuUltra DNA Polymerase AD	No specific data.
		10X PfuUltra Reaction Buffer AD	No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	:	PfuUltra DNA Polymerase AD	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		10X PfuUltra Reaction Buffer AD	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	PfuUltra DNA Polymerase AD	No specific treatment.
		10X PfuUltra Reaction Buffer AD	No specific treatment.

Section 4. First aid measures

Protection of first-aiders	:	PfuUltra DNA Polymerase AD	No action shall be taken involving any personal risk or without suitable training.
		10X PfuUltra Reaction Buffer AD	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	:	PfuUltra DNA Polymerase AD	Use an extinguishing agent suitable for the surrounding fire.
		10X PfuUltra Reaction Buffer AD	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	PfuUltra DNA Polymerase AD	None known.
		10X PfuUltra Reaction Buffer AD	None known.
Specific hazards arising from the chemical	:	PfuUltra DNA Polymerase AD	In a fire or if heated, a pressure increase will occur and the container may burst.
		10X PfuUltra Reaction Buffer AD	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	:	PfuUltra DNA Polymerase AD	Decomposition products may include the following materials: carbon dioxide carbon monoxide
		10X PfuUltra Reaction Buffer AD	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds
Special protective actions for fire-fighters	:	PfuUltra DNA Polymerase AD	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
		10X PfuUltra Reaction Buffer AD	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	PfuUltra DNA Polymerase AD	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
		10X PfuUltra Reaction Buffer AD	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Section 6. Accidental release measures

For non-emergency personnel	:	PfuUltra DNA Polymerase AD	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
		10X PfuUltra Reaction Buffer AD	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	:	PfuUltra DNA Polymerase AD	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
		10X PfuUltra Reaction Buffer AD	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	PfuUltra DNA Polymerase AD	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
		10X PfuUltra Reaction Buffer AD	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up	:	PfuUltra DNA Polymerase AD	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		10X PfuUltra Reaction Buffer AD	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	:	PfuUltra DNA Polymerase AD	Put on appropriate personal protective equipment (see Section 8).
		10X PfuUltra Reaction Buffer AD	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	:	PfuUltra DNA Polymerase AD	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
		10X PfuUltra Reaction Buffer	Eating, drinking and smoking should be prohibited in

Section 7. Handling and storage

	AD	areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities :	PfuUltra DNA Polymerase AD	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	10X PfuUltra Reaction Buffer AD	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
PfuUltra DNA Polymerase AD Glycerol	**Safe Work Australia (Australia, 12/2019).** TWA: 10 mg/m³ 8 hours.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Section 8. Exposure controls and personal protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state :
PfuUltra DNA Polymerase AD — Liquid.
10X PfuUltra Reaction Buffer AD — Liquid.

Colour :
PfuUltra DNA Polymerase AD — Not available.
10X PfuUltra Reaction Buffer AD — Not available.

Odour :
PfuUltra DNA Polymerase AD — Not available.
10X PfuUltra Reaction Buffer AD — Not available.

Odour threshold :
PfuUltra DNA Polymerase AD — Not available.
10X PfuUltra Reaction Buffer AD — Not available.

pH :
PfuUltra DNA Polymerase AD — 8.2
10X PfuUltra Reaction Buffer AD — 8.8

Melting point/freezing point :
PfuUltra DNA Polymerase AD — Not available.
10X PfuUltra Reaction Buffer AD — Not available.

Boiling point, initial boiling point, and boiling range :
PfuUltra DNA Polymerase AD — Not available.
10X PfuUltra Reaction Buffer AD — Not available.

Flash point :

Ingredient name	Closed cup °C	Closed cup °F	Closed cup Method	Open cup °C	Open cup °F	Open cup Method
PfuUltra DNA Polymerase AD						
Edetic acid	>100	>212	DIN 51758			
(R*,R*) -1,4-Dimercaptobutane-2,3-diol	>110	>230				

Section 9. Physical and chemical properties and safety characteristics

Evaporation rate :

PfuUltra DNA Polymerase AD	Not available.
10X PfuUltra Reaction Buffer AD	Not available.

Flammability :

PfuUltra DNA Polymerase AD	Not applicable.
10X PfuUltra Reaction Buffer AD	Not applicable.

Lower and upper explosion limit/flammability limit :

PfuUltra DNA Polymerase AD	Not available.
10X PfuUltra Reaction Buffer AD	Not available.

Vapour pressure :

Ingredient name	Vapour Pressure at 20˚C			Vapour pressure at 50˚C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
PfuUltra DNA Polymerase AD						
water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
10X PfuUltra Reaction Buffer AD						
water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	

Relative vapour density :

PfuUltra DNA Polymerase AD	Not available.
10X PfuUltra Reaction Buffer AD	Not available.

Relative density :

PfuUltra DNA Polymerase AD	Not available.
10X PfuUltra Reaction Buffer AD	Not available.

Solubility :

PfuUltra DNA Polymerase AD	Soluble in the following materials: cold water and hot water.
10X PfuUltra Reaction Buffer AD	Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water :

PfuUltra DNA Polymerase AD	Not applicable.
10X PfuUltra Reaction Buffer AD	Not applicable.

Auto-ignition temperature :

Ingredient name	°C	°F	Method
PfuUltra DNA Polymerase AD			
Glycerol	370	698	
Edetic acid	>400	>752	VDI 2263

Decomposition temperature :

PfuUltra DNA Polymerase AD	Not available.
10X PfuUltra Reaction Buffer AD	Not available.

Viscosity :

PfuUltra DNA Polymerase AD	Not available.
10X PfuUltra Reaction Buffer AD	Not available.

Section 9. Physical and chemical properties and safety characteristics

Particle characteristics

Median particle size

PfuUltra DNA Polymerase AD	Not applicable.
10X PfuUltra Reaction Buffer AD	Not applicable.

Section 10. Stability and reactivity

Reactivity

PfuUltra DNA Polymerase AD	No specific test data related to reactivity available for this product or its ingredients.
10X PfuUltra Reaction Buffer AD	No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

PfuUltra DNA Polymerase AD	The product is stable.
10X PfuUltra Reaction Buffer AD	The product is stable.

Possibility of hazardous reactions

PfuUltra DNA Polymerase AD	Under normal conditions of storage and use, hazardous reactions will not occur.
10X PfuUltra Reaction Buffer AD	Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

PfuUltra DNA Polymerase AD	No specific data.
10X PfuUltra Reaction Buffer AD	No specific data.

Incompatible materials

PfuUltra DNA Polymerase AD	May react or be incompatible with oxidising materials.
10X PfuUltra Reaction Buffer AD	May react or be incompatible with oxidising materials.

Hazardous decomposition products

PfuUltra DNA Polymerase AD	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10X PfuUltra Reaction Buffer AD	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
PfuUltra DNA Polymerase AD				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
PfuUltra DNA Polymerase AD					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Section 11. Toxicological information

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	:	PfuUltra DNA Polymerase AD	Routes of entry anticipated: Oral, Dermal, Inhalation.
		10X PfuUltra Reaction Buffer AD	Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact	:	PfuUltra DNA Polymerase AD	No known significant effects or critical hazards.
		10X PfuUltra Reaction Buffer AD	No known significant effects or critical hazards.
Inhalation	:	PfuUltra DNA Polymerase AD	No known significant effects or critical hazards.
		10X PfuUltra Reaction Buffer AD	No known significant effects or critical hazards.
Skin contact	:	PfuUltra DNA Polymerase AD	No known significant effects or critical hazards.
		10X PfuUltra Reaction Buffer AD	No known significant effects or critical hazards.
Ingestion	:	PfuUltra DNA Polymerase AD	No known significant effects or critical hazards.
		10X PfuUltra Reaction Buffer AD	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	PfuUltra DNA Polymerase AD	No specific data.
		10X PfuUltra Reaction Buffer AD	No specific data.
Inhalation	:	PfuUltra DNA Polymerase AD	No specific data.
		10X PfuUltra Reaction Buffer AD	No specific data.
Skin contact	:	PfuUltra DNA Polymerase AD	No specific data.
		10X PfuUltra Reaction Buffer AD	No specific data.

Section 11. Toxicological information

Ingestion : PfuUltra DNA Polymerase AD — No specific data.
10X PfuUltra Reaction Buffer AD — No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General :
PfuUltra DNA Polymerase AD — No known significant effects or critical hazards.
10X PfuUltra Reaction Buffer AD — No known significant effects or critical hazards.

Carcinogenicity :
PfuUltra DNA Polymerase AD — No known significant effects or critical hazards.
10X PfuUltra Reaction Buffer AD — No known significant effects or critical hazards.

Mutagenicity :
PfuUltra DNA Polymerase AD — No known significant effects or critical hazards.
10X PfuUltra Reaction Buffer AD — No known significant effects or critical hazards.

Reproductive toxicity :
PfuUltra DNA Polymerase AD — No known significant effects or critical hazards.
10X PfuUltra Reaction Buffer AD — No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
PfuUltra DNA Polymerase AD					
Glycerol	12600	N/A	N/A	N/A	N/A
10X PfuUltra Reaction Buffer AD					
10X PfuUltra Reaction Buffer AD	25000	55000	N/A	550	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
PfuUltra DNA Polymerase AD			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
PfuUltra DNA Polymerase AD Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
PfuUltra DNA Polymerase AD Glycerol	-1.76	-	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Section 15. Regulatory information

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

Canada : Not determined.

China : Not determined.

Europe : Not determined.

Japan : **Japan inventory (CSCL)**: Not determined.
Japan inventory (ISHL): Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 18/04/2022

Date of previous issue : 16/08/2019

Version : 7

Key to abbreviations : ADG = Australian Dangerous Goods
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

Procedure used to derive the classification

Classification
Not classified.

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Any other relevant information

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.