

SAFETY DATA SHEET



D1000 Reagents, Part Number 5067-5583

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

1.1 Product identifier

Product name : D1000 Reagents, Part Number 5067-5583
Part no. (chemical kit) : 5067-5583
Part no. : D1000 Sample Buffer 5190-6502
D1000 Ladder 5067-5586

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

Material uses : For research use only. Not for use in diagnostic procedures (RUO).
D1000 Sample Buffer 1 x 400 µl vials
D1000 Ladder 1 x 10 µl vials

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : D1000 Sample Buffer Mixture
D1000 Ladder Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

Ingredients of unknown toxicity : D1000 Sample Buffer Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%

Ingredients of unknown ecotoxicity : D1000 Sample Buffer Contains 9.6% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word : D1000 Sample Buffer No signal word.
D1000 Ladder No signal word.

Hazard statements : D1000 Sample Buffer No known significant effects or critical hazards.
D1000 Ladder No known significant effects or critical hazards.

Precautionary statements

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SECTION 2: Hazards identification

Prevention	: D1000 Sample Buffer D1000 Ladder	Not applicable. Not applicable.
Response	: D1000 Sample Buffer D1000 Ladder	Not applicable. Not applicable.
Storage	: D1000 Sample Buffer D1000 Ladder	Not applicable. Not applicable.
Disposal	: D1000 Sample Buffer D1000 Ladder	Not applicable. Not applicable.
Supplemental label elements	: D1000 Sample Buffer D1000 Ladder	Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: D1000 Sample Buffer D1000 Ladder	Not applicable. Not applicable.
Special packaging requirements		
Tactile warning of danger	: D1000 Sample Buffer D1000 Ladder	Not applicable. Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: D1000 Sample Buffer D1000 Ladder	This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: D1000 Sample Buffer D1000 Ladder	None known. None known.

SECTION 3: Composition/information on ingredients

3.1 Substances : D1000 Sample Buffer Mixture
D1000 Ladder Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
D1000 Sample Buffer Sucrose	REACH #: Annex IV EC: 200-334-9 CAS: 57-50-1	≤10	Not classified.	[2]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: D1000 Sample Buffer	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.
	D1000 Ladder	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	: D1000 Sample Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	D1000 Ladder	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: D1000 Sample Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	D1000 Ladder	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: D1000 Sample Buffer	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.
	D1000 Ladder	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.
Protection of first-aiders	: D1000 Sample Buffer	No action shall be taken involving any personal risk or without suitable training.
	D1000 Ladder	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: D1000 Sample Buffer	No known significant effects or critical hazards.
	D1000 Ladder	No known significant effects or critical hazards.
Inhalation	: D1000 Sample Buffer	No known significant effects or critical hazards.
	D1000 Ladder	No known significant effects or critical hazards.
Skin contact	: D1000 Sample Buffer	No known significant effects or critical hazards.
	D1000 Ladder	No known significant effects or critical hazards.
Ingestion	: D1000 Sample Buffer	No known significant effects or critical hazards.
	D1000 Ladder	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: D1000 Sample Buffer	No specific data.
	D1000 Ladder	No specific data.
Inhalation	: D1000 Sample Buffer	No specific data.
	D1000 Ladder	No specific data.
Skin contact	: D1000 Sample Buffer	No specific data.
	D1000 Ladder	No specific data.
Ingestion	: D1000 Sample Buffer	No specific data.
	D1000 Ladder	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 4: First aid measures

Notes to physician	: D1000 Sample Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	D1000 Ladder	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: D1000 Sample Buffer	No specific treatment.
	D1000 Ladder	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: D1000 Sample Buffer	Use an extinguishing agent suitable for the surrounding fire.
	D1000 Ladder	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: D1000 Sample Buffer	None known.
	D1000 Ladder	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: D1000 Sample Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	D1000 Ladder	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: D1000 Sample Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
	D1000 Ladder	No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters	: D1000 Sample Buffer	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.
	D1000 Ladder	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	: D1000 Sample Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	D1000 Ladder	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: D1000 Sample Buffer	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.
	D1000 Ladder	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.

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SECTION 6: Accidental release measures

For emergency responders	: D1000 Sample Buffer	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".
	D1000 Ladder	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".
6.2 Environmental precautions	: D1000 Sample Buffer	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).
	D1000 Ladder	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).
6.3 Methods and material for containment and cleaning up		
Methods for cleaning up	: D1000 Sample Buffer	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.
	D1000 Ladder	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.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.	

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: D1000 Sample Buffer	Put on appropriate personal protective equipment (see Section 8).
	D1000 Ladder	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: D1000 Sample Buffer	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.
	D1000 Ladder	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.

7.2 Conditions for safe storage, including any incompatibilities

Storage :

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SECTION 7: Handling and storage

D1000 Sample Buffer	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.
D1000 Ladder	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.

7.3 Specific end use(s)

Recommendations	: D1000 Sample Buffer D1000 Ladder	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: D1000 Sample Buffer D1000 Ladder	Not available. Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
D1000 Sample Buffer Sucrose	NAOSH (Ireland, 1/2020). OELV-8hr: 10 mg/m ³ 8 hours. OELV-15min: 20 mg/m ³ 15 minutes.

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
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DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
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SECTION 8: Exposure controls/personal protection

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**
- 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.
- 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.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: D1000 Sample Buffer D1000 Ladder	Liquid. Liquid.
Colour	: D1000 Sample Buffer D1000 Ladder	Colourless. Colourless.
Odour	: D1000 Sample Buffer D1000 Ladder	Odourless. Odourless.
Odour threshold	: D1000 Sample Buffer D1000 Ladder	Not available. Not available.
Melting point/freezing point	: D1000 Sample Buffer D1000 Ladder	Not available. 0°C
Initial boiling point and boiling range	: D1000 Sample Buffer D1000 Ladder	Not available. 100°C (212°F)
Flammability (solid, gas)	: D1000 Sample Buffer D1000 Ladder	Not applicable. Not applicable.
Upper/lower flammability or explosive limits	: D1000 Sample Buffer D1000 Ladder	Not available. Not available.
Flash point	:	

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SECTION 9: Physical and chemical properties

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
D1000 Sample Buffer						
Dimethyl sulfoxide	87	188.6	ASTM D 93	87	188.6	
Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate	>100	>212				
D1000 Ladder						
Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate	>100	>212				

Auto-ignition temperature

Ingredient name	°C	°F	Method
D1000 Sample Buffer			
Dimethyl sulfoxide	300 to 302	572 to 575.6	
Sodium azide	309	588.2	EU A.16

Decomposition temperature

: D1000 Sample Buffer Not available.
D1000 Ladder Not available.

pH

: D1000 Sample Buffer 8
D1000 Ladder 8

Viscosity

: D1000 Sample Buffer Not available.
D1000 Ladder Not available.

Solubility(ies)

: D1000 Sample Buffer Easily soluble in the following materials: cold water and hot water.
D1000 Ladder Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water

: D1000 Sample Buffer Not applicable.
D1000 Ladder Not applicable.

Vapour pressure

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
D1000 Sample Buffer						
Water	23.8	3.2		92.258	12.3	
Dimethyl sulfoxide	0.42	0.056	EU A.4			
D1000 Ladder						
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	

Evaporation rate

: D1000 Sample Buffer Not available.
D1000 Ladder Not available.

Relative density

: D1000 Sample Buffer Not available.
D1000 Ladder Not available.

Vapour density

: D1000 Sample Buffer Not available.
D1000 Ladder Not available.

Oxidising properties

: D1000 Sample Buffer Not available.
D1000 Ladder Not available.

Particle characteristics

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SECTION 9: Physical and chemical properties

Median particle size : D1000 Sample Buffer Not applicable.
D1000 Ladder Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : D1000 Sample Buffer No specific test data related to reactivity available for this product or its ingredients.
D1000 Ladder No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : D1000 Sample Buffer The product is stable.
D1000 Ladder The product is stable.

10.3 Possibility of hazardous reactions : D1000 Sample Buffer Under normal conditions of storage and use, hazardous reactions will not occur.
D1000 Ladder Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : D1000 Sample Buffer No specific data.
D1000 Ladder No specific data.

10.5 Incompatible materials : D1000 Sample Buffer May react or be incompatible with oxidising materials.
D1000 Ladder May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products : D1000 Sample Buffer Under normal conditions of storage and use, hazardous decomposition products should not be produced.
D1000 Ladder Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Acute toxicity estimates

N/A

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : 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.

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SECTION 11: Toxicological information

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : D1000 Sample Buffer Not available.
D1000 Ladder Not available.

Potential acute health effects

Inhalation : D1000 Sample Buffer No known significant effects or critical hazards.
D1000 Ladder No known significant effects or critical hazards.

Ingestion : D1000 Sample Buffer No known significant effects or critical hazards.
D1000 Ladder No known significant effects or critical hazards.

Skin contact : D1000 Sample Buffer No known significant effects or critical hazards.
D1000 Ladder No known significant effects or critical hazards.

Eye contact : D1000 Sample Buffer No known significant effects or critical hazards.
D1000 Ladder No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : D1000 Sample Buffer No specific data.
D1000 Ladder No specific data.

Ingestion : D1000 Sample Buffer No specific data.
D1000 Ladder No specific data.

Skin contact : D1000 Sample Buffer No specific data.
D1000 Ladder No specific data.

Eye contact : D1000 Sample Buffer No specific data.
D1000 Ladder 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 : D1000 Sample Buffer No known significant effects or critical hazards.
D1000 Ladder No known significant effects or critical hazards.

Carcinogenicity : D1000 Sample Buffer No known significant effects or critical hazards.
D1000 Ladder No known significant effects or critical hazards.

Mutagenicity : D1000 Sample Buffer No known significant effects or critical hazards.
D1000 Ladder No known significant effects or critical hazards.

Reproductive toxicity : D1000 Sample Buffer No known significant effects or critical hazards.
D1000 Ladder No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Not available.

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SECTION 12: Ecological information

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : 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.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : 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

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

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SECTION 14: Transport information

14.6 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.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorisation](#)

[Annex XIV](#)

None of the components are listed.

[Substances of very high concern](#)

None of the components are listed.

[Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles](#)

Label	: D1000 Sample Buffer	Not applicable.
	D1000 Ladder	Not applicable.

[Other EU regulations](#)

[Ozone depleting substances \(1005/2009/EU\)](#)

Not listed.

[Prior Informed Consent \(PIC\) \(649/2012/EU\)](#)

Not listed.

[Persistent Organic Pollutants](#)

Not listed.

[Seveso Directive](#)

This product is not controlled under the Seveso Directive.

[International regulations](#)

[Chemical Weapon Convention List Schedules I, II & III Chemicals](#)

Not listed.

[Montreal Protocol](#)

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	: All components are listed or exempted.
Europe	: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.

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SECTION 15: Regulatory information

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.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

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Date of previous issue : No previous validation

Version : 1

Notice to reader

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