

SAFETY DATA SHEET



High Sensitivity D5000 Reagents, Part Number 5067-5593

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

1.1 Product identifier

Product name : High Sensitivity D5000 Reagents, Part Number 5067-5593
Part no. (chemical kit) : 5067-5593
Part no. : High Sensitivity D5000 5190-7745
Sample Buffer
High Sensitivity D5000 5067-5594
Ladder

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

Identified uses : Analytical reagent.
For research use only.
High Sensitivity D5000 Sample Buffer 1 x 300 µl vials
High Sensitivity D5000 Ladder 1 x 20 µl vials
Uses advised against : Not for use in diagnostic procedures (RUO).

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH
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 : High Sensitivity D5000 Mixture
Sample Buffer
High Sensitivity D5000 Mixture
Ladder

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

Not classified.

High Sensitivity D5000 Sample Buffer The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
High Sensitivity D5000 Ladder The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown toxicity : High Sensitivity D5000 Percentage of the mixture consisting of ingredient(s) of
Sample Buffer unknown acute inhalation toxicity: 10 - 30%

Ingredients of unknown ecotoxicity : High Sensitivity D5000 Contains 13.7% of components with unknown hazards to
Sample Buffer 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.

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SECTION 2: Hazards identification

2.2 Label elements

Signal word	: High Sensitivity D5000 Sample Buffer	No signal word.
	: High Sensitivity D5000 Ladder	No signal word.
Hazard statements	: High Sensitivity D5000 Sample Buffer	No known significant effects or critical hazards.
	: High Sensitivity D5000 Ladder	No known significant effects or critical hazards.

Precautionary statements

Prevention	: High Sensitivity D5000 Sample Buffer	Not applicable.
	: High Sensitivity D5000 Ladder	Not applicable.
Response	: High Sensitivity D5000 Sample Buffer	Not applicable.
	: High Sensitivity D5000 Ladder	Not applicable.
Storage	: High Sensitivity D5000 Sample Buffer	Not applicable.
	: High Sensitivity D5000 Ladder	Not applicable.
Disposal	: High Sensitivity D5000 Sample Buffer	Not applicable.
	: High Sensitivity D5000 Ladder	Not applicable.
Supplemental label elements	: High Sensitivity D5000 Sample Buffer	Not applicable.
	: High Sensitivity D5000 Ladder	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: High Sensitivity D5000 Sample Buffer	Not applicable.
	: High Sensitivity D5000 Ladder	Not applicable.

Special packaging requirements

Tactile warning of danger	: High Sensitivity D5000 Sample Buffer	Not applicable.
	: High Sensitivity D5000 Ladder	Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: High Sensitivity D5000 Sample Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	: High Sensitivity D5000 Ladder	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	: High Sensitivity D5000 Sample Buffer	None known.
	: High Sensitivity D5000 Ladder	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances : High Sensitivity D5000 Sample Mixture
Buffer
High Sensitivity D5000 Ladder Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
High Sensitivity D5000 Sample Buffer Sucrose	REACH #: Annex IV EC: 200-334-9 CAS: 57-50-1	≥10 - ≤25	Not classified. See Section 16 for the full text of the H statements declared above.	-	[1]

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
High Sensitivity D5000 Sample Buffer [1] Substance with a workplace exposure limit
Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: High Sensitivity D5000 Sample Buffer High Sensitivity D5000 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. 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	: High Sensitivity D5000 Sample Buffer High Sensitivity D5000 Ladder	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: High Sensitivity D5000 Sample Buffer High Sensitivity D5000 Ladder	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: High Sensitivity D5000 Sample Buffer High Sensitivity D5000 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. 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	: High Sensitivity D5000 Sample Buffer High Sensitivity D5000 Ladder	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

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SECTION 4: First aid measures

Potential acute health effects

Eye contact	: High Sensitivity D5000	No known significant effects or critical hazards.
	Sample Buffer	
	High Sensitivity D5000	No known significant effects or critical hazards.
Inhalation	Ladder	
	: High Sensitivity D5000	No known significant effects or critical hazards.
	Sample Buffer	
Skin contact	High Sensitivity D5000	No known significant effects or critical hazards.
	Ladder	
	: High Sensitivity D5000	No known significant effects or critical hazards.
Ingestion	Sample Buffer	
	High Sensitivity D5000	No known significant effects or critical hazards.
	Ladder	

Over-exposure signs/symptoms

Eye contact	: High Sensitivity D5000	No specific data.
	Sample Buffer	
	High Sensitivity D5000	No specific data.
Inhalation	Ladder	
	: High Sensitivity D5000	No specific data.
	Sample Buffer	
Skin contact	High Sensitivity D5000	No specific data.
	Ladder	
	: High Sensitivity D5000	No specific data.
Ingestion	Sample Buffer	
	High Sensitivity D5000	No specific data.
	Ladder	

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: High Sensitivity D5000	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Sample Buffer	
	High Sensitivity D5000	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	Ladder	
	: High Sensitivity D5000	No specific treatment.
	Sample Buffer	
	High Sensitivity D5000	No specific treatment.
	Ladder	

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: High Sensitivity D5000	Use an extinguishing agent suitable for the surrounding fire.
	Sample Buffer	
	High Sensitivity D5000	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	Ladder	
	: High Sensitivity D5000	None known.
	Sample Buffer	
	High Sensitivity D5000	None known.
	Ladder	

5.2 Special hazards arising from the substance or mixture

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SECTION 5: Firefighting measures

Hazards from the substance or mixture	: High Sensitivity D5000 Sample Buffer High Sensitivity D5000 Ladder	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: High Sensitivity D5000 Sample Buffer High Sensitivity D5000 Ladder	Decomposition products may include the following materials: carbon dioxide carbon monoxide No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters	: High Sensitivity D5000 Sample Buffer High Sensitivity D5000 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. 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	: High Sensitivity D5000 Sample Buffer High Sensitivity D5000 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. 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	: High Sensitivity D5000 Sample Buffer High Sensitivity D5000 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. 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	: High Sensitivity D5000 Sample Buffer High Sensitivity D5000 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". 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	: High Sensitivity D5000 Sample Buffer High Sensitivity D5000 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). 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).

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SECTION 6: Accidental release measures

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	High Sensitivity D5000 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.
	High Sensitivity D5000 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.
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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	High Sensitivity D5000 Sample Buffer	Put on appropriate personal protective equipment (see Section 8).
	High Sensitivity D5000 Ladder	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	High Sensitivity D5000 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.
	High Sensitivity D5000 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	High Sensitivity D5000 Sample Buffer	Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). 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.
	High Sensitivity D5000 Ladder	Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). 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.

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SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations	: High Sensitivity D5000 Sample Buffer	Industrial applications, Professional applications.
	High Sensitivity D5000 Ladder	Industrial applications, Professional applications.
Industrial sector specific solutions	: High Sensitivity D5000 Sample Buffer	Not available.
	High Sensitivity D5000 Ladder	Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
High Sensitivity D5000 Sample Buffer Sucrose	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 10 mg/m ³ 8 hours. OELV-15min: 20 mg/m ³ 15 minutes.

Biological exposure indices

None known.

Recommended monitoring procedures	: 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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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

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SECTION 8: Exposure controls/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.
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	: High Sensitivity D5000 Sample Buffer	Liquid.
	: High Sensitivity D5000 Ladder	Liquid.
Colour	: High Sensitivity D5000 Sample Buffer	Colourless.
	: High Sensitivity D5000 Ladder	Colourless.
Odour	: High Sensitivity D5000 Sample Buffer	Odourless.
	: High Sensitivity D5000 Ladder	Odourless.
Odour threshold	: High Sensitivity D5000 Sample Buffer	Not available.
	: High Sensitivity D5000 Ladder	Not available.
Melting point/freezing point	: High Sensitivity D5000 Sample Buffer	Not available.
	: High Sensitivity D5000 Ladder	0°C
Initial boiling point and boiling range	: High Sensitivity D5000 Sample Buffer	~189°C
	: High Sensitivity D5000 Ladder	100°C
Flammability	: High Sensitivity D5000 Sample Buffer	Not applicable.
	: High Sensitivity D5000 Ladder	Not applicable.
Upper/lower flammability or explosive limits	: High Sensitivity D5000 Sample Buffer	Not available.
	: High Sensitivity D5000 Ladder	Not available.
Flash point	: High Sensitivity D5000 Sample Buffer	Not available.
	: High Sensitivity D5000 Ladder	Not available.

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SECTION 9: Physical and chemical properties

Auto-ignition temperature	:	High Sensitivity D5000	Not available.																																	
		Sample Buffer																																		
		High Sensitivity D5000	Not available.																																	
		Ladder																																		
Decomposition temperature	:	High Sensitivity D5000	Not available.																																	
		Sample Buffer																																		
		High Sensitivity D5000	Not available.																																	
		Ladder																																		
pH	:	High Sensitivity D5000	8																																	
		Sample Buffer																																		
		High Sensitivity D5000	8																																	
		Ladder																																		
Viscosity	:	High Sensitivity D5000	Not available.																																	
		Sample Buffer																																		
		High Sensitivity D5000	Not available.																																	
		Ladder																																		
Solubility(ies)	:	<table><tr><th>Media</th><th>Result</th></tr><tr><td>High Sensitivity D5000 Sample Buffer</td><td rowspan="2">Soluble</td></tr><tr><td>water</td></tr><tr><td>High Sensitivity D5000 Ladder</td><td rowspan="2">Soluble</td></tr><tr><td>water</td></tr></table>		Media	Result	High Sensitivity D5000 Sample Buffer	Soluble	water	High Sensitivity D5000 Ladder	Soluble	water																									
Media	Result																																			
High Sensitivity D5000 Sample Buffer	Soluble																																			
water																																				
High Sensitivity D5000 Ladder	Soluble																																			
water																																				
Partition coefficient: n-octanol/water	:	High Sensitivity D5000	Not applicable.																																	
		Sample Buffer																																		
		High Sensitivity D5000	Not applicable.																																	
		Ladder																																		
Vapour pressure	:	<table><tr><th rowspan="2">Ingredient name</th><th colspan="3">Vapour Pressure at 20°C</th><th colspan="3">Vapour pressure at 50°C</th></tr><tr><th>mm Hg</th><th>kPa</th><th>Method</th><th>mm Hg</th><th>kPa</th><th>Method</th></tr><tr><td>High Sensitivity D5000 Sample Buffer</td><td rowspan="2">23.8</td><td rowspan="2">3.2</td><td rowspan="2"></td><td rowspan="2">92.258</td><td rowspan="2">12.3</td><td rowspan="2"></td></tr><tr><td>water</td></tr><tr><td>High Sensitivity D5000 Ladder</td><td rowspan="2">23.8</td><td rowspan="2">3.2</td><td rowspan="2"></td><td rowspan="2">92.258</td><td rowspan="2">12.3</td><td rowspan="2"></td></tr><tr><td>water</td></tr></table>						Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C			mm Hg	kPa	Method	mm Hg	kPa	Method	High Sensitivity D5000 Sample Buffer	23.8	3.2		92.258	12.3		water	High Sensitivity D5000 Ladder	23.8	3.2		92.258	12.3		water
Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C																																
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water																																				
High Sensitivity D5000 Ladder	23.8	3.2		92.258	12.3																															
water																																				
Evaporation rate	:	High Sensitivity D5000	Not available.																																	
		Sample Buffer																																		
		High Sensitivity D5000	Not available.																																	
		Ladder																																		
Relative density	:	High Sensitivity D5000	Not available.																																	
		Sample Buffer																																		
		High Sensitivity D5000	Not available.																																	
		Ladder																																		
Vapour density	:	High Sensitivity D5000	Not available.																																	
		Sample Buffer																																		
		High Sensitivity D5000	Not available.																																	
		Ladder																																		
Explosive properties	:	High Sensitivity D5000	Not available.																																	
		Sample Buffer																																		
		High Sensitivity D5000	Not available.																																	
		Ladder																																		

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SECTION 9: Physical and chemical properties

Oxidising properties : High Sensitivity D5000 Not available.
Sample Buffer
High Sensitivity D5000 Not available.
Ladder

Particle characteristics

Median particle size : High Sensitivity D5000 Not applicable.
Sample Buffer
High Sensitivity D5000 Not applicable.
Ladder

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : High Sensitivity D5000 No specific test data related to reactivity available for this
Sample Buffer product or its ingredients.
High Sensitivity D5000 No specific test data related to reactivity available for this
Ladder product or its ingredients.

10.2 Chemical stability : High Sensitivity D5000 The product is stable.
Sample Buffer
High Sensitivity D5000 The product is stable.
Ladder

10.3 Possibility of hazardous reactions : High Sensitivity D5000 Under normal conditions of storage and use, hazardous
Sample Buffer reactions will not occur.
High Sensitivity D5000 Under normal conditions of storage and use, hazardous
Ladder reactions will not occur.

10.4 Conditions to avoid : High Sensitivity D5000 No specific data.
Sample Buffer
High Sensitivity D5000 No specific data.
Ladder

10.5 Incompatible materials : High Sensitivity D5000 May react or be incompatible with oxidising materials.
Sample Buffer
High Sensitivity D5000 May react or be incompatible with oxidising materials.
Ladder

10.6 Hazardous decomposition products : High Sensitivity D5000 Under normal conditions of storage and use, hazardous
Sample Buffer decomposition products should not be produced.
High Sensitivity D5000 Under normal conditions of storage and use, hazardous
Ladder 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.

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SECTION 11: Toxicological information

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	: High Sensitivity D5000	Not available.
	Sample Buffer	
	High Sensitivity D5000	Not available.
	Ladder	

Potential acute health effects

Inhalation	: High Sensitivity D5000	No known significant effects or critical hazards.
	Sample Buffer	
	High Sensitivity D5000	No known significant effects or critical hazards.
	Ladder	
Ingestion	: High Sensitivity D5000	No known significant effects or critical hazards.
	Sample Buffer	
	High Sensitivity D5000	No known significant effects or critical hazards.
	Ladder	
Skin contact	: High Sensitivity D5000	No known significant effects or critical hazards.
	Sample Buffer	
	High Sensitivity D5000	No known significant effects or critical hazards.
	Ladder	
Eye contact	: High Sensitivity D5000	No known significant effects or critical hazards.
	Sample Buffer	
	High Sensitivity D5000	No known significant effects or critical hazards.
	Ladder	

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: High Sensitivity D5000	No specific data.
	Sample Buffer	
	High Sensitivity D5000	No specific data.
	Ladder	
Ingestion	: High Sensitivity D5000	No specific data.
	Sample Buffer	
	High Sensitivity D5000	No specific data.
	Ladder	
Skin contact	: High Sensitivity D5000	No specific data.
	Sample Buffer	
	High Sensitivity D5000	No specific data.
	Ladder	
Eye contact	: High Sensitivity D5000	No specific data.
	Sample Buffer	
	High Sensitivity D5000	No specific data.
	Ladder	

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

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SECTION 11: Toxicological information

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	High Sensitivity D5000	No known significant effects or critical hazards.
	Sample Buffer	
	High Sensitivity D5000 Ladder	No known significant effects or critical hazards.
Carcinogenicity	High Sensitivity D5000	No known significant effects or critical hazards.
	Sample Buffer	
	High Sensitivity D5000 Ladder	No known significant effects or critical hazards.
Mutagenicity	High Sensitivity D5000	No known significant effects or critical hazards.
	Sample Buffer	
	High Sensitivity D5000 Ladder	No known significant effects or critical hazards.
Reproductive toxicity	High Sensitivity D5000	No known significant effects or critical hazards.
	Sample Buffer	
	High Sensitivity D5000 Ladder	No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Not available.

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.

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SECTION 12: Ecological information

12.6 Endocrine disrupting properties

Not available.

12.7 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 or ID 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

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

Not listed.

Label	:	High Sensitivity D5000	Not applicable.
		Sample Buffer	
		High Sensitivity D5000 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.
Eurasian Economic Union	:	Russian Federation inventory: 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.

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SECTION 15: Regulatory information

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.

Date of issue/ Date of revision	: 03/03/2023
Date of previous issue	: No previous validation
Version	: 1

Notice to reader

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