SAFETY DATA SHEET

Agilent Technologies

RNase Block, Part Number 300151

SECTION 1: Ide undertaking	ntification of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: RNase Block, Part Number 300151
Part no.	: 300151
1.2 Relevant identified	uses of the substance or mixture and uses advised against
Material uses	: Analytical reagent.
	1 ml (4000 U 40 U/μl) RNase Block 300151-51
1.3 Details of the supp	lier of the safety data sheet
Agilent Technologies L 5500 Lakeside Cheadl Cheadle, Cheshire, Sk United Kingdom Tel: +44 (0) 345 712 5	e Royal Business Park, (8 3GR
e-mail address of per responsible for this S	rson : pdl-msds_author@agilent.com SDS
1.4 Emergency telepho	one number
Emergency telephon number (with hours o operation)	e : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Not classified.

Ingredients of unknown toxicity

: Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%

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	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Supplemental label elements	: Not applicable.

SECTION 2: Hazards identification

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,	: Not applicable.
mixtures and articles Special packaging require	ments
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: 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	: None known.

SECTION 3: Composition/information on ingredients

3.2	Mixtures	 Mixture
U.	MIALUI CO	 IVIIALUIC

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Ølycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	nmediately flush eyes with plenty of water, occasionally lifting the upper and velids. Check for and remove any contact lenses. Get medical attention if in ccurs.	
Inhalation	emove victim to fresh air and keep at rest in a position comfortable for brea edical attention if symptoms occur.	thing. Get
Skin contact	ush contaminated skin with plenty of water. Remove contaminated clothing noes. Get medical attention if symptoms occur.	l and
Ingestion	⁷ ash out mouth with water. If material has been swallowed and the exposed onscious, give small quantities of water to drink. Do not induce vomiting unl rected to do so by medical personnel. Get medical attention if symptoms of	ess
Protection of first-aiders	o action shall be taken involving any personal risk or without suitable training	g.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.		
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Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
	0
Ingestion Over-exposure signs	: No known significant effects or critical hazards.

	•
Inhalation	: No specific data.
Skin contact	: No specific data.

Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

•	
5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising	from the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
5.3 Advice for firefighters	
Special precautions for fire-fighters	: 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	: 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	s, protective equipment and emergency procedures
For non-emergency personnel	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	: 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	 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

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SECTION 6: Accidental release measures

Methods for cleaning up	: 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	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: 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

: 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	: Industrial applications, Professional applications.
Industrial sector specific solutions	: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name		Exposure limit values			
Ølycerol		EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist			
Recommended monitoring procedures	atmosphere or bid the ventilation or of protective equipm following: Europe assessment of ex values and measu atmospheres - Gu exposure to chem atmospheres - Ge measurement of of	tains ingredients with exposure limits, personal, workplace ological monitoring may be required to determine the effectiveness of other control measures and/or the necessity to use respiratory tent. Reference should be made to monitoring standards, such as the ean Standard EN 689 (Workplace atmospheres - Guidance for the posure by inhalation to chemical agents for comparison with limit urement strategy) European Standard EN 14042 (Workplace uide for the application and use of procedures for the assessment of nical and biological agents) European Standard EN 482 (Workplace eneral requirements for the performance of procedures for the chemical agents) Reference to national guidance documents for etermination of hazardous substances will also be required.			
DNELS/DMELS					

No DNELs/DMELs available.

PNECs

No PNECs available

SECTION 8: Exposure controls/personal protection

8.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	<u>sures</u>
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

<u>Appearance</u>		
Physical state	1	Liquid.
Colour	1	Not available.
Odour	1	Not available.
Odour threshold	1	Not available.
Melting point/freezing point	:	Not available.
Initial boiling point and boiling range	:	Not available.
Flammability (solid, gas)	1	Not applicable.
Upper/lower flammability or explosive limits	:	Not available.
Flash point	;	

SECTION 9: Physical and chemical properties

				Closed c	up			Open	сир			
		Ingredient name	°C °F		Method		°C	°F	Method			
		<pre></pre>	>110	>230								
		Glycerol					177	350.6				
Auto-ignition	:	Ingredient name		°C		°F		Method	l			
temperature		Grycerol		370	370 698							
		4-(2-Hydroxyethyl)piperazin- 1-ylethanesulphonic acid		>400	>752			EU A.16				
Decomposition temperature	:	Not available.										
рН	:	7.6										
Viscosity	:	Not available.										
Solubility(ies)	:	Fasily soluble in the	following n	naterials:	cold w	ater and	Fasily soluble in the following materials: cold water and hot water.					
Miscible with water	:	Yes.										
Partition coefficient: n-		₩es. Not applicable.										
Partition coefficient: n- octanol/water		•	Vapou	r Pressur	re at 20)°C			ssure at 50°C			
Partition coefficient: n- octanol/water		•	Vapou mm Hg	r Pressur kPa	re at 20 Meth		۲ mm Hg		ssure at 50°C Method			
Partition coefficient: n- octanol/water		Not applicable.		1	1		mm	/apour pre kPa	1			
Partition coefficient: n- octanol/water		Not applicable.	mm Hg	kPa	1		mm Hg	/apour pre kPa 12.3				
Partition coefficient: n- octanol/water Vapour pressure	:	Not applicable.	23.8	kPa 3.2	1		mm Hg 92.258	/apour pre kPa 12.3				
Partition coefficient: n- octanol/water Vapour pressure Evaporation rate	:	Not applicable.	23.8	kPa 3.2	1		mm Hg 92.258	/apour pre kPa 12.3	1			
Partition coefficient: n- octanol/water Vapour pressure Evaporation rate Relative density	:	Not applicable.	23.8	kPa 3.2	1		mm Hg 92.258	/apour pre kPa 12.3	1			
Partition coefficient: n- octanol/water Vapour pressure Evaporation rate Relative density Vapour density	:	Not applicable.	23.8	kPa 3.2	1		mm Hg 92.258	/apour pre kPa 12.3	1			
Partition coefficient: n- octanol/water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties		Not applicable.	23.8	kPa 3.2	1		mm Hg 92.258	/apour pre kPa 12.3				
Miscible with water Partition coefficient: n- octanol/water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties Particle characteristics		Not applicable.	23.8	kPa 3.2	1		mm Hg 92.258	/apour pre kPa 12.3	ssure at 50°C			

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxic Acute toxicity Not available.	ological effects
Acute toxicity estimate N/A	<u>S</u>
Irritation/Corrosion Conclusion/Summary Sensitiser	: Not available.
Skin	: May cause skin sensitisation.
Mutagenicity	
Conclusion/Summary	: Not available.
Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.
Specific target organ to	<u>kicity (single exposure)</u>
Not available.	
Specific target organ to: Not available.	<u>xicity (repeated exposure)</u>
Aspiration hazard Not available.	
Information on likely routes of exposure	: Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health ef	ifects
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Eye contact	: No known significant effects or critical hazards.
Symptoms related to the	e physical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: No specific data.
Eye contact	: No specific data.
	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	<u>effects</u>

SECTION 11: Toxicological information

General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: 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.

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 met	hods
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

ECTION 11: 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

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

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

: Not available.

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 : 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

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	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	Not determined.
Taiwan	: All components are listed or exempted.
Thailand	Not determined.
Turkey	Not determined.
United States	: 🕅 components are active or exempted.
Viet Nam	: 🕅 components are listed or exempted.

15.2 Chemical safety assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

: 13/09/2019

be required.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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 : 19/05/2022	

Date of issue/Date of revision : 19/05/2022

Date of previous issue

revision

Date of previous issue

: This product contains substances for which Chemical Safety Assessments might still

SECTION 16: Other information

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Version

Notice to reader

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