# SAFETY DATA SHEET



RNase-Free DNase, Part Number 600032

### **Section 1. Identification**

**Product identifier** : RNase-Free DNase, Part Number 600032

Part no. : 600032

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

**Material uses** : Analytical reagent.

> 1000 U 10 U/µl × 5 tubes RNase-Free DNase 600031-51

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.

### **GHS label elements**

Signal word : No signal word.

: No known significant effects or critical hazards. **Hazard statements** 

**Precautionary statements** 

**Prevention** : Not applicable. Response : Not applicable. : Not applicable. **Storage Disposal** : Not applicable.

Supplemental label

elements

**Additional warning** : Not applicable.

phrases

Other hazards which do not : None known.

result in classification

# Section 3. Composition and ingredient information

Substance/mixture : Mixture

### **CAS** number/other identifiers

| Ingredient name | % (w/w)   | CAS number |
|-----------------|-----------|------------|
| 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.

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# Section 3. Composition and ingredient information

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

### Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact : 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** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion : 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
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

Protection of first-aiders : 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

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide

Special protective actions 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.

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### Section 5. Firefighting measures

**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

### Section 6. Accidental release measures

#### Personal precautions, 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".

**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).

#### Methods and material for containment and cleaning up

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.

### Section 7. Handling and storage

### **Precautions for safe handling**

**Protective measures** Advice on general occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : 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.

including any incompatibilities

Conditions for safe storage, : 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   |
|------------------|---|
| <b>⊠</b> iycerol | Safe Work Australia (Australia, 12/2019).<br>TWA: 10 mg/m³ 8 hours. |

**Appropriate engineering** controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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.

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## Section 8. Exposure controls and 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.

# 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 : Liquid.

Colour: Not available.Odour: Not available.Odour threshold: Not available.

**pH** : 7.5

Melting point/freezing point Boiling point, initial boiling point, and boiling range Not available.Not available.

Flash point

|                  | Closed cup |    |        |     | Open c | up     |
|------------------|------------|----|--------|-----|--------|--------|
| Ingredient name  | °C         | °F | Method | °C  | °F     | Method |
| <b>G</b> rycerol |            |    |        | 177 | 350.6  |        |

Evaporation rate : Not available.
Flammability : Not applicable.
Lower and upper explosion : Not available.
limit/flammability limit

Vapour pressure

|                 | Vapour Pressure at 20°C |         |        | Vapour pressure at 50° |         |        |
|-----------------|-------------------------|---------|--------|------------------------|---------|--------|
| Ingredient name | mm Hg                   | kPa     | Method | mm<br>Hg               | kPa     | Method |
| water           | 23.8                    | 3.2     |        | 92.258                 | 12.3    |        |
| Glycerol        | 0.000075                | 0.00001 |        | 0.0025                 | 0.00033 |        |

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# Section 9. Physical and chemical properties and safety characteristics

Relative vapour density : Not available.

Relative density : Not available.

**Solubility** : **Z**asily soluble in the following materials: cold water and hot water.

Miscible with water : Yes.

Partition coefficient: n-

octanol/water

: Not applicable.

**Auto-ignition temperature** 

| Ingredient name | °C  | °F  | Method |
|-----------------|-----|-----|--------|
| Grycerol        | 370 | 698 |        |

**Decomposition temperature** : Not available. **Viscosity** : Not available.

**Particle characteristics** 

**Median particle size** : Not applicable.

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : May react or be incompatible with oxidising materials.

Hazardous decomposition

products

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 |
|-------------------------|-----------|---------|-------------|----------|
| Glycerol                | LD50 Oral | Rat     | 12600 mg/kg | -        |

### **Irritation/Corrosion**

| Product/ingredient name | Result               | Species | Score | Exposure                 | Observation |
|-------------------------|----------------------|---------|-------|--------------------------|-------------|
| <b>Ø</b> lycerol        | Eyes - Mild irritant | Rabbit  | -     | 24 hours 500             | -           |
|                         | Skin - Mild irritant | Rabbit  | -     | mg<br>24 hours 500<br>mg | -           |

#### **Sensitisation**

Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

Conclusion/Summary

: Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

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# **Section 11. Toxicological information**

### **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 : Routes of entry anticipated: Oral, Dermal, Inhalation.

of exposure

### Potential acute health effects

**Eye contact**  No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Skin contact** : No known significant effects or critical hazards. Ingestion

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data. Inhalation : No specific data. **Skin contact** : No specific data. Ingestion : No specific data.

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

### **Short term exposure**

**Potential immediate** 

: Not available.

effects

**Potential delayed effects** : Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

**Potential delayed effects** : Not available.

#### Potential chronic health effects

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

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

| Product/ingredient name | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | ,   | (vapours)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|-------------------------|------------------|-------------------|-----|---------------------|--|
| Glycerol                | 12600            | N/A               | N/A | N/A                 | N/A  |

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### Section 12. Ecological information

#### **Toxicity**

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

### Persistence and degradability

| Product/ingredient name | Test  | Result         | Dose | Inoculum |
|-------------------------|---|----------------|------|----------|
|                         | 301D Ready<br>Biodegradability -<br>Closed Bottle<br>Test | 93 % - 30 days | -    | -        |

### **Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| Glycerol                | -1.76  | -   | low       |

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: 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 nonrecyclable 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 : Not available.

to IMO instruments

### 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

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### Section 15. Regulatory information

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 : 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): All components are listed or exempted.

Japan inventory (ISHL): All components are listed or exempted.

New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.Republic of Korea: All components are listed or exempted.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.

# Section 16. Any other relevant information

**History** 

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**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.

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# Section 16. Any other relevant information

✓ Indicates information that has changed from previously issued version.

### **Notice to reader**

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