## SAFETY DATA SHEET



#### Storage Solutions

## **Section 1. Identification**

**Product identifier** : Storage Solutions

: GP-435-0100. GP-440-0100 Part no.

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

**Identified uses** : Analytical reagent.

> GP-435-0100 Storage Solution, 100 mL

GP-440-0100 Capillary Storage Solution, 100 mL

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd

679 Springvale Road

Mulgrave

Victoria 3170, Australia

1800 802 402

**Emergency telephone** number (with hours of

operation)

: CHEMTREC®: +(61)-290372994

## Section 2. Hazard(s) identification

## Classification of the substance or mixture

**H**320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

H317 SKIN SENSITISATION - Category 1

**GHS** label elements

**Hazard pictograms** 



: WARNING Signal word

**Hazard statements** ₩317 - May cause an allergic skin reaction.

H320 - Causes eye irritation.

**Precautionary statements** 

**Prevention** : P280 - Wear protective gloves.

P261 - Avoid breathing vapour.

: P302 + P352 - IF ON SKIN: Wash with plenty of water. Response

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse.

**Storage** : Not applicable.

: P501 - Dispose of contents and container in accordance with all local, regional, **Disposal** 

national and international regulations.

Supplemental label elements

**Additional warning** 

phrases

: Not applicable.

Other hazards which do not : None known.

result in classification

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## Section 3. Composition and ingredient information

Substance/mixture : Mixture

Ingredient name	% (w/w)	Identifiers
<b>Ø</b> lycerol	≥60 - ≤75	CAS: 56-81-5 EC: 200-289-5
2-Methyl-2H-isothiazol-3-one	<0.1	CAS: 2682-20-4 EC: 220-239-6

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

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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. Continue to rinse for at least 10

minutes. If irritation persists, get medical attention.

Inhalation

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

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person

may need to be kept under medical surveillance for 48 hours.

Skin contact
 Wash with plenty of soap and water. Remove contaminated clothing and shoes.
 Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the

event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

irritation watering redness

Inhalation : No specific data.

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## Section 4. First aid measures

Skin contact :

: Adverse symptoms may include the following:

irritation redness

**Ingestion** : No specific data.

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

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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.

sulfur oxides

Specific hazards arising from the chemical

rom 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 nitrogen oxides

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.

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.

## 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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

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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.

## Section 7. Handling and storage

#### **Precautions for safe handling**

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

## 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.

# 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.

## Section 8. Exposure controls and personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
2-Methyl-2H-isothiazol-3-one	Safe Work Australia (Australia, 1/2024) TWA 8 hours: 10 mg/m³. DFG MAC-values list (Germany, 7/2023) Skin sensitiser.

#### **Biological exposure indices**

No exposure indices known.

## 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.

#### **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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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## Section 8. Exposure controls and personal protection

## **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: chemical splash goggles.

#### 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**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.

### <u>Appearance</u>

Physical state : Liquid.

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

**pH** : 8.3

Melting point/freezing point : Not available.

Boiling point or initial : Not available.

boiling point and boiling

range

Flash point

	Closed cup		Open cup		up	
Ingredient name	°C	°F	Method	°C	°F	Method
<b>Ø</b> lycerol	-	-	-	177	350.6	-

Evaporation rate : Not available.

Flammability : Not applicable.

Lower and upper explosion : Not available.

Vapour pressure

limit/flammability limit

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>w</b> ater	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-

Relative vapour density : Not available.

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# Section 9. Physical and chemical properties and safety characteristics

Relative density : Not available.

Solubility(ies) : Media Result

water Soluble

Miscible with water : Yes.

Partition coefficient: n-

octanol/water

: Not applicable.

**Auto-ignition temperature**: Not available.

 Ingredient name
 °C
 °F
 Method

 Ølycerol
 370
 698

**Decomposition temperature**: Not available.

Viscosity : Dynamic (ro

: Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): 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

ØlycerolRat - Oral - LD5012600 mg/kg2-Methyl-2H-isothiazol-3-oneRat - Male, Female - Oral - LD50285.5 mg/kgRat - Male, Female - Dermal - LD50242 mg/kg

Rat - Male, Female - Inhalation - LC50 Dusts and 0.11 mg/l [4 hours]

mists

**Conclusion/Summary** 

[Product]

: Not available.

Skin corrosion/irritation

Product/ingredient name Result

Sycerol Rabbit - Skin - Mild irritant Duration of treatment/ exposure: 24 hours

Conclusion/Summary

[Product]

: Not available.

Serious eye damage/eye irritation

Product/ingredient name Result

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## **Section 11. Toxicological information**

Rabbit - Eyes - Mild irritant Duration of treatment/
exposure: 24 hours

**Conclusion/Summary** 

[Product]

: Not available.

**Respiratory corrosion/irritation** 

**Conclusion/Summary**: Not available.

[Product]

Respiratory or skin sensitization

Skin

**Conclusion/Summary** 

: May cause skin sensitisation.

[Product]

Respiratory

**Conclusion/Summary** 

: Not available.

[Product]

Germ cell mutagenicity

Conclusion/Summary :

: Not available.

[Product]

Carcinogenicity

**Conclusion/Summary** 

: Not available.

[Product]

Reproductive toxicity

**Conclusion/Summary**: Not available.

[Product]

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 entry anticipated: Oral, Dermal, Inhalation, Eyes.

routes of exposure

Potential acute health effects

**Eye contact** : Causes eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

irritation watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**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.

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## **Section 11. Toxicological information**

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects: Not available.

Potential chronic health effects

**Conclusion/Summary** 

: Not available.

[Product]
General

: Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

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.

**Numerical measures of toxicity** 

## **Acute toxicity estimates**

	Oral (mg/ kg)	Dermal (mg/kg)	(0)	(vapours)	Inhalation (dusts and mists) (mg/l)
Sycerol 2-Methyl-2H-isothiazol-3-one	12600	N/A	N/A	N/A	N/A
	285.5	242	N/A	N/A	0.11

## Section 12. Ecological information

**Toxicity** 

Product/ingredient name Result

🗹 ycerol Acute - LC50 - Fresh water 54000 mg/l [96 hours] Fish - Trout -

Oncorhynchus mykiss Daphnia - Water flea -

2-Methyl-2H-isothiazol-3-one Acute - EC50 - Fresh water 0.18 ppm [48 hours]

Daphnia - water nea -Daphnia magna

Acute - LC50 - Fresh water 0.07 ppm [96 hours]

Fish - Rainbow trout, donaldson trout -Oncorhynchus mykiss

Chronic - NOEC - Fresh water 4.93 mg/l [98 days] Fish Chronic - NOEC - Fresh water 0.044 mg/l [21 days] Daphnia

**Conclusion/Summary** 

[Product]

: Not available.

Persistence and degradability

Product/ingredient name Result

🗹 Ready Biodegradability 93% [30 days] -

- Closed Bottle Test

2-Methyl-2H-isothiazol-3-one Ready Biodegradability 0% [28 days] - Not -

- Closed Bottle Test readily

Conclusion/Summary : Not available.

[Product]

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Z-Methyl-2H-isothiazol-3-one	-	-	Not readily

## **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
⊠lycerol	-1.76	-	Low
2-Methyl-2H-isothiazol-3-one	0.119	-	Low

#### **Mobility in soil**

Soil/water partition : Not available.

coefficient

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## Section 12. Ecological information

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

## Section 13. Disposal considerations

## **Disposal methods**

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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

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. **New Zealand** : All components are listed or exempted.

**United States** : Not determined.

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## Section 16. Any other relevant information

#### <u>History</u>

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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	Justification
SÉRIOUS EYE DAMAGE/EYE IRRITATION - Category 2B SKIN SENSITISATION - Category 1	Calculation method Calculation method

<sup>▼</sup> Indicates information that has changed from previously issued version.

## **Notice to reader**

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