Printing date 27.03.2019

Agilent

Version number 3

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1 Identification

- · Product identifier
- · Trade name: Calcium Reference Fill Solution
- · Part number: 56000, 56000-P
- Relevant identified uses of the substance or mixture and uses advised against Reagents and Standards for Analytical Chemical Laboratory Use
- · Details of the supplier of the safety data sheet
- **Manufacturer/Supplier:** Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia
- Further information obtainable from: Telephone: 1800 802 402
 e-mail: pdl-msds_author@agilent.com
 Emergency telephone number: CHEMTREC®: +(61) - 290372994

2 Hazard(s) Identification

· Classification of the substance or mixture



Acute Tox. 4 H312 Harmful in contact with skin.

· Label elements

- · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms



- · Signal word Warning
- · Hazard-determining components of labelling:
- Triethanolamine
- · Hazard statements
- Harmful in contact with skin.
- · Precautionary statements
- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.
- Wear protective gloves / protective clothing.
- IF ON SKIN: Wash with plenty of water.
- Call a POISON CENTER/doctor if you feel unwell.
- Specific measures (see on this label).
- Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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Acute Tox. 1, H310

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1.235%

· Other hazards

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- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:
- 102-71-6 Triethanolamine
- Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

· Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire Fighting Measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
- Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

7 Handling and Storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· Control parameters

[•] Ingredients with limit values that require monitoring at the workplace:

102-71-6 Triethanolamine

NES Long-term value: 5 mg/m³

Sen WES Long-term value: 5 mg/m³

Sen

· Additional information: The lists valid during the making were used as basis.

· Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- · Respiratory protection:

When used as intended with Agilent instruments the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device equipment with appropriate organic or acid gas cartridge.

· Protection of hands:

Although not recommended for constant contact with the chemicals or for clean up, nitrile gloves 11-13mil thickness are recommended for normal use. The breakthrough time is 1hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

· Material of gloves

For normal use: nitrile rubber, 11-13 mil thickness

For direct contact with the chemical: butyl rubber, 12-15 mil thickness

- · Penetration time of glove material
- For normal use: nitrile rubber: 1 hour

For direct contact with the chemical: butyl rubber: >4 hours

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• Eye protection: Goggles recommended during refilling

Information on basic physical and chem	nical properties
General Information	
Appearance: Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	: 100 °C
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	1.07122 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	1.2 %
Water:	83.4 %
VOC (EC)	1.23 %
Solids content:	15.3 %
Other information	No further relevant information available.

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10 Stability and Reactivity

· Reactivity No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No further relevant information available.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

· Information on toxicological effects

· Acute toxicity

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

LD50 178,152 mg/kg (rabbit) Oral Dermal LD50 >1,822 mg/kg (rabbit)

102-71-6 Triethanolamine

Oral LD50 8,000 mg/kg (rat)

2,200 mg/kg (rabbit)

Dermal LD50 >22.5 mg/kg (rabbit)

Primary irritant effect:

· Skin corrosion/irritation No irritant effect.

· Serious eye damage/irritation No irritating effect.

· Respiratory or skin sensitisation No sensitising effects known.

· Additional toxicological information: Harmful

12 Ecological Information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB**: Not applicable.
- · Other adverse effects No further relevant information available.



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13 Disposal considerations

· Waste treatment methods

Recommendation

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Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

14 Transport information

not regulated	
not regulated	
not regulated	
not regulated	
Not applicable.	
Not applicable.	
Transport in bulk according to Annex II of Marpol and the IBC CodeNot applicable.	
not regulated	

15 Regulatory information

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

· Australian Inventory of Chemical Substances

All ingredients are listed.

[.] Standard for the Uniform Scheduling of Medicines and Poisons

102-71-6 Triethanolamine

· Directive 2012/18/EU

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

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S4, S5





[·] Named dangerous substances - ANNEX I None of the ingredients is listed.

ΛT

Safety Data Sheet according to WHS Regulations

Trade name: Calcium Reference Fill Solution

(Contd. of page 6) · Relevant phrases H310 Fatal in contact with skin. · Department issuing SDS: Document Control / Regulatory · Contact: regulatory@ultrasci.com · Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 1: Acute toxicity - Category 1 Acute Tox. 4: Acute toxicity - Category 4

• * Data compared to the previous version altered.



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