

## Safety Data Sheet

according to WHS Regulations

Date of issue: 07.07.2025

Revision: 07.07.2025

### 1 Identification

- **Other means of identification**
- **Trade name:** Custom Standard (1X1 mL)
- **Part number:** CUS-3671
- **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**



GHS02 flame

Flammable liquids – Category 2

H225 Highly flammable liquid and vapour.



GHS07

Eye damage/irritation – Category 2A

H319 Causes serious eye irritation.

Specific target organ toxicity (single exposure) – Category 3

3

- **Label elements**

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

- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Danger

- **Hazard-determining components of labelling:**

acetone (&gt;60 %)

- **Hazard statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- **Precautionary statements**

P101

If medical advice is needed, have product container or label at hand.

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- P102 Keep out of reach of children.
- P103 Read label before use.
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P261 Avoid breathing vapours.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P240 Ground/bond container and receiving equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards**

· **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:**

67-64-1	acetone  Flammable liquids – Category 2, H225;  Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H336	>60%
88-69-7	2-isopropylphenol  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311;  Skin corrosion/irritation – Category 1A, H314;  Eye damage/irritation – Category 1, H318	<10%
90-00-6	2-ethylphenol  Acute toxicity - dermal – Category 3, H311;  Skin corrosion/irritation – Category 1B, H314;  Acute toxicity - oral – Category 4, H302; Acute toxicity - inhalation – Category 4, H332; Flammable liquids – Category 4, H227	<10%
95-48-7	o-cresol  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311;  Skin corrosion/irritation – Category 1B, H314	<10%

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






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95-65-8	3,4-xylenol  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311;  Skin corrosion/irritation – Category 1B, H314	<10%
95-87-4	2,5-xylenol  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311;  Skin corrosion/irritation – Category 1B, H314	<10%
105-67-9	2,4-xylenol  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311;  Skin corrosion/irritation – Category 1B, H314	<10%
106-44-5	p-cresol  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311;  Skin corrosion/irritation – Category 1B, H314	<10%
108-39-4	m-cresol  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311;  Skin corrosion/irritation – Category 1B, H314; Flammable liquids – Category 4, H227	<10%
108-68-9	3,5-xylenol  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311;  Skin corrosion/irritation – Category 1B, H314	<10%
108-95-2	phenol  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311; Acute toxicity - inhalation – Category 3, H331;  Germ cell mutagenicity – Category 2, H341; Specific target organ toxicity (repeated exposure) – Category 2, H373;  Skin corrosion/irritation – Category 1B, H314	<10%
526-75-0	2,3-xylenol  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311;  Skin corrosion/irritation – Category 1B, H314	<10%
576-26-1	2,6-xylenol  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311;  Skin corrosion/irritation – Category 1B, H314	<10%
620-17-7	3-ethylphenol  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311;  Skin corrosion/irritation – Category 1B, H314;  Acute toxicity - inhalation – Category 4, H332	<10%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

#### 4 First Aid Measures

- **General information:** Immediately remove any clothing soiled by the product.
- **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. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire Fighting Measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** No special measures required.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **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 section 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **Appropriate engineering controls** No further data; see section 7.

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**· Ingredients with limit values that require monitoring at the workplace:**
**67-64-1 acetone**

WES	Short-term value: 2375 mg/m <sup>3</sup> , 1000 ppm
	Long-term value: 1185 mg/m <sup>3</sup> , 500 ppm

**108-95-2 phenol**

WES	Long-term value: 4 mg/m <sup>3</sup> , 1 ppm
	Sk

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

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes.
- 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

· **Eye protection:**



Tightly sealed goggles

### 9 Physical and Chemical Properties

· **General Information**

· **Appearance:**

- |                           |                 |
|---------------------------|-----------------|
| · <b>Form:</b>            | Fluid           |
| · <b>Colour:</b>          | Colourless      |
| · <b>Odour:</b>           | Characteristic  |
| · <b>Odour threshold:</b> | Not determined. |
| · <b>pH-value:</b>        | Not determined. |

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· <b>Change in condition</b>	
· <b>Melting point/freezing point:</b>	-94.7 °C
· <b>Initial boiling point and boiling range:</b>	55.8-56.6 °C
· <b>Flash point:</b>	-17 °C
· <b>Flammability</b>	Highly flammable.
· <b>Auto-ignition temperature:</b>	465 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	2.6 Vol %
· <b>Upper:</b>	13 Vol %
· <b>Vapour pressure at 20 °C:</b>	245.3 hPa
· <b>Density at 20 °C:</b>	0.791 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic at 20 °C:</b>	32 mPas
· <b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	98.5 %
· <b>VOC (EC)</b>	98.48 %
· <b>Solids content:</b>	0.9 %
· <b>Other information</b>	
· <b>Particle characteristics</b>	Not applicable.
· <b>Physical state</b>	Liquid

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **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** Based on available data, the classification criteria are not met.

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**· LD/LC50 values relevant for classification:**
**ATE (Acute Toxicity Estimates)**

Oral	LD50	13,244 mg/kg
Dermal	LD50	17,738 mg/kg
Inhalative	LC50/4 h	396 mg/L

**67-64-1 acetone**

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)

**90-00-6 2-ethylphenol**

Oral	LD50	600 mg/kg (mouse)
Dermal	LD50	600 mg/kg (mouse)

**95-48-7 o-cresol**

Oral	LD50	121 mg/kg (rat)
Dermal	LD50	890 mg/kg (rabbit)

**95-65-8 3,4-xylenol**

Oral	LD50	727 mg/kg (rat)
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**95-87-4 2,5-xylenol**

Oral	LD50	444 mg/kg (rat)
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**105-67-9 2,4-xylenol**

Oral	LD50	3,200 mg/kg (rat)
Dermal	LD50	1,040 mg/kg (rat)

**106-44-5 p-cresol**

Oral	LD50	207 mg/kg (rat)
Dermal	LD50	301 mg/kg (rabbit)

**108-39-4 m-cresol**

Oral	LD50	242 mg/kg (rat)
Dermal	LD50	2,050 mg/kg (rabbit)

**108-68-9 3,5-xylenol**

Oral	LD50	608 mg/kg (rat)
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**108-95-2 phenol**

Oral	LD50	282 mg/kg (rat)
Dermal	LD50	660 mg/kg (rat)
		850 mg/kg (rabbit)

**526-75-0 2,3-xylenol**

Dermal	LD50	56 mg/kg (mouse)
--------	------	------------------

**576-26-1 2,6-xylenol**

Oral	LD50	296 mg/kg (rat)
Dermal	LD50	1,000 mg/kg (rabbit)

**· Primary irritant effect:**

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### 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 2 (German Regulation) (Self-assessment): hazardous for water  
 Do not allow product to reach ground water, water course or sewage system.  
 Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
 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

- |   |   |
|---|---|
| <b>· Not Regulated, De minimus Quantities</b> | -                                       |
| <b>· UN-Number</b>                            |   |
| <b>· ADG, IMDG, IATA</b>                      | UN1993                                  |
| <b>· UN proper shipping name</b>              |   |
| <b>· ADG</b>                                  | 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE) |
| <b>· IMDG, IATA</b>                           | FLAMMABLE LIQUID, N.O.S. (ACETONE)      |

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 · **Transport hazard class(es)**

 · **ADG, IMDG, IATA**

 · **Class**

3 Flammable liquids.

 · **Label**

3

 · **Packing group**

II

 · **ADG, IMDG, IATA**

 · **Environmental hazards:**

Not applicable.

 · **Special precautions for user**

Warning: Flammable liquids.

 · **Hazard identification number (Kemler code):**

33

 · **EMS Number:**

 F-E,S-E

 · **Stowage Category**

B

 · **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

 · **Transport/Additional information:**

 · **ADG**

 · **Limited quantities (LQ)**

1L

 · **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

 · **Transport category**

2

 · **Tunnel restriction code**

D/E

 · **IMDG**

 · **Limited quantities (LQ)**

1L

 · **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

 · **UN "Model Regulation":**

 UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE),  
3, II

### 15 Regulatory information

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

 · **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

 · **Standard for the Uniform Scheduling of Medicines and Poisons**

67-64-1	acetone	S5
108-95-2	phenol	S2, S4, S5, S6

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**· Australia: Priority Existing Chemicals**

None of the ingredients is listed.

**· Directive 2012/18/EU****· Named dangerous substances - ANNEX I** None of the ingredients is listed.**· Seveso category P5c** FLAMMABLE LIQUIDS**· Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t**· Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t**· 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.

**· Relevant phrases**

H225 Highly flammable liquid and vapour.

H227 Combustible liquid.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H341 Suspected of causing genetic defects.

H373 May cause damage to organs through prolonged or repeated exposure.

**· Department issuing SDS:** Document Control / Regulatory**· Contact:** pdl-acg-regulatory-cq@agilent.com**· Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

Flammable liquids – Category 2: Flammable liquids – Category 2

Flammable liquids – Category 4: Flammable liquids – Category 4

Acute toxicity - oral – Category 3: Acute toxicity – Category 3

Acute toxicity - oral – Category 4: Acute toxicity – Category 4

Skin corrosion/irritation – Category 1A: Skin corrosion/irritation – Category 1A

Skin corrosion/irritation – Category 1B: Skin corrosion/irritation – Category 1B

Eye damage/irritation – Category 1: Serious eye damage/eye irritation – Category 1

Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A

Germ cell mutagenicity – Category 2: Germ cell mutagenicity – Category 2

Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3

Specific target organ toxicity (repeated exposure) – Category 2: Specific target organ toxicity (repeated exposure) – Category 2

**· \* Data compared to the previous version altered.**