

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 05.11.2025

Version number 6 (replaces version 5)

Revision: 05.11.2025

### 1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Custom Standard (200ML)
- **Part number:** ICUS-3900
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Reagents and Standards for Analytical Chemical Laboratory Use
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Deutschland GmbH  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany
- **Further information obtainable from:**  
Telephone: 0800 603 1000  
pdl-msds\_author@agilent.com
- **1.4 Emergency telephone number:** CHEMTREC®: +(353) 1 901 4670

### 2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Carc. 1B H350 May cause cancer.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
potassium bromate
- **Hazard statements**  
H350 May cause cancer.
- **Precautionary statements**

|           |                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------|
| P101      | If medical advice is needed, have product container or label at hand.                               |
| P102      | Keep out of reach of children.                                                                      |
| P103      | Read carefully and follow all instructions.                                                         |
| P280      | Wear protective gloves / protective clothing.                                                       |
| P201      | Obtain special instructions before use.                                                             |
| P202      | Do not handle until all safety precautions have been read and understood.                           |
| P308+P313 | IF exposed or concerned: Get medical advice/attention.                                              |
| P405      | Store locked up.                                                                                    |
| P501      | Dispose of contents/container in accordance with local/regional/national/international regulations. |

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- **Additional information:**  
Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

|                   |                                                                                                                                                                                                                                                                                                            |       |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| CAS: 7758-01-2    | potassium bromate                                                                                                                                                                                                                                                                                          | 0.25% |
| EINECS: 231-829-8 |  Ox. Sol. 1, H271;  Acute Tox. 3, H301;  Carc. 1B, H350 |       |

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

### 4 First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

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

### 6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 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.
- **6.4 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.

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### 7 Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 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:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.
- **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.
- **Hand protection**  
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/face protection



Tightly sealed goggles

### 9 Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

|                                                            |                                   |
|------------------------------------------------------------|-----------------------------------|
| · Physical state                                           | Liquid                            |
| · Colour:                                                  | Colourless                        |
| · Odour:                                                   | Odourless                         |
| · Odour threshold:                                         | Not determined.                   |
| · Melting point/freezing point:                            | 0 °C                              |
| · Boiling point or initial boiling point and boiling range | 100 °C                            |
| · Flammability                                             | Not applicable.                   |
| · Lower and upper explosion limit                          |                                   |
| · Lower:                                                   | Not determined.                   |
| · Upper:                                                   | Not determined.                   |
| · Flash point:                                             | Not applicable.                   |
| · Decomposition temperature:                               | Not determined.                   |
| · pH                                                       | Not determined.                   |
| · Viscosity:                                               |                                   |
| · Kinematic viscosity                                      | Not determined.                   |
| · Dynamic at 20 °C:                                        | 0.952 mPas                        |
| · Solubility                                               |                                   |
| · water:                                                   | Not miscible or difficult to mix. |
| · Partition coefficient n-octanol/water (log value)        | Not determined.                   |
| · Vapour pressure at 20 °C:                                | 23 hPa                            |
| · Density and/or relative density                          |                                   |
| · Density at 20 °C:                                        | 1.0132 g/cm <sup>3</sup>          |
| · Relative density                                         | Not determined.                   |
| · Vapour density                                           | Not determined.                   |

#### · 9.2 Other information

|                                                                                 |                                               |
|---------------------------------------------------------------------------------|-----------------------------------------------|
| · Appearance:                                                                   |                                               |
| · Form:                                                                         | Fluid                                         |
| · Important information on protection of health and environment, and on safety. |                                               |
| · Ignition temperature:                                                         | Product is not selfigniting.                  |
| · Explosive properties:                                                         | Product does not present an explosion hazard. |
| · Solvent content:                                                              |                                               |
| · Water:                                                                        | 99.3 %                                        |
| · VOC (EC)                                                                      | 0.00 %                                        |
| · Solids content:                                                               | 0.8 %                                         |
| · Molecular weight                                                              | 18.02 g/mol                                   |
| · Change in condition                                                           |                                               |
| · Evaporation rate                                                              | Not determined.                               |

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|                                                                             |      |
|-----------------------------------------------------------------------------|------|
| · Information with regard to physical hazard classes                        |      |
| · Explosives                                                                | Void |
| · Flammable gases                                                           | Void |
| · Aerosols                                                                  | Void |
| · Oxidising gases                                                           | Void |
| · Gases under pressure                                                      | Void |
| · Flammable liquids                                                         | Void |
| · Flammable solids                                                          | Void |
| · Self-reactive substances and mixtures                                     | Void |
| · Pyrophoric liquids                                                        | Void |
| · Pyrophoric solids                                                         | Void |
| · Self-heating substances and mixtures                                      | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids                                                         | Void |
| · Oxidising solids                                                          | Void |
| · Organic peroxides                                                         | Void |
| · Corrosive to metals                                                       | Void |
| · Desensitised explosives                                                   | Void |

## 10 Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

|                                                      |      |                    |
|------------------------------------------------------|------|--------------------|
| · <b>LD/LC50 values relevant for classification:</b> |      |                    |
| ATE (Acute Toxicity Estimates)                       |      |                    |
| Oral                                                 | LD50 | 62,800 mg/kg (rat) |

|                             |      |                 |
|-----------------------------|------|-----------------|
| 7758-01-2 potassium bromate |      |                 |
| Oral                        | LD50 | 157 mg/kg (rat) |

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** May cause cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.

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- **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.
- **11.2 Information on other hazards**

|                                          |
|------------------------------------------|
| · <b>Endocrine disrupting properties</b> |
|------------------------------------------|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

## 12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **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.

## 13 Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**
- |     |              |
|-----|--------------|
| HP7 | Carcinogenic |
|-----|--------------|
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |                                                                                             |               |
|---------------------------------------------------------------------------------------------|---------------|
| · <b>14.1 UN number or ID number</b><br>· <b>ADR, ADN, IMDG, IATA</b>                       | not regulated |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR, ADN, IMDG, IATA</b>                      | not regulated |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, ADN, IMDG, IATA</b><br>· <b>Class</b> | not regulated |

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- |                                                                                                                         |                                                    |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>         | <p style="text-align: center;">not regulated</p>   |
| <ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> </ul>                                  | <p style="text-align: center;">Not applicable.</p> |
| <ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> </ul>                            | <p style="text-align: center;">Not applicable.</p> |
| <ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul> | <p style="text-align: center;">Not applicable.</p> |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>                                       | <p style="text-align: center;">not regulated</p>   |

## 15 Regulatory information

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

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 28

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

|           |                |
|-----------|----------------|
| 7631-99-4 | sodium nitrate |
|-----------|----------------|

- **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

- **National regulations:**

- **Additional classification according to Decree on Hazardous Materials, Annex II:**  
Carcinogenic hazardous material group III (dangerous).

- **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.  
Exceptions can be made by the authorities in certain cases.

- **15.2 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**

H271 May cause fire or explosion; strong oxidiser.

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H301 Toxic if swallowed.

H350 May cause cancer.

· **Date of previous version:** 05.11.2025· **Version number of previous version:** 5· **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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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

ATE: Acute toxicity estimate values

Ox. Sol. 1: Oxidizing solids – Category 1

Acute Tox. 3: Acute toxicity – Category 3

Carc. 1B: Carcinogenicity – Category 1B

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

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