

# Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

## \* 1 Identification

- **Product identifier**
- **Trade name:** QCI-017, PEI-017
- **Other means of identification**
- **Application of the substance / the mixture** For Laboratory Use Only

· **Details of the supplier of the safety data sheet**  
 · **Manufacturer/Supplier:**  
 NSI Lab Solutions  
 7212 ACC Blvd.,  
 Raleigh, NC 27617  
 USA

Australian Supplier:  
 Choice Analytical  
 PO Box 28 Thornleigh NSW 2120 Australia  
 Telephone: +61-2-9980-6240  
 Fax: +61-2-9980-6344  
 choiceanalytical.com.au  
 Email: info@choiceanalytical.com.au

- **Information department:** Product safety department
- **Emergency telephone number:** During normal opening times: +1 (919) 789-3000

## \* 2 Hazard(s) identification

- **Classification of the substance or mixture**  
 The product is not classified, according to the Globally Harmonized System (GHS).

- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Information pertaining to particular dangers for man and environment:**
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

|            |   |                |
|------------|---|----------------|
| HEALTH     | 0 | Health = 0     |
| FIRE       | 0 | Fire = 0       |
| REACTIVITY | 0 | Reactivity = 0 |

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Classification according to (d)(1)(ii) of § 1910.1200**  
 The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

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· **Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

## \* 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:** Void

· **Non-hazardous components**

|           |                                                     |           |
|-----------|-----------------------------------------------------|-----------|
| 7732-18-5 | water, distilled, conductivity or of similar purity | ≥80–≤100% |
| 7758-19-2 | sodium chlorite                                     | ≥0–≤0.1%  |
| 7647-15-6 | sodium bromide                                      | ≥0–≤0.1%  |
| 3811-04-9 | potassium chlorate                                  | ≥0–≤0.1%  |
| 7758-01-2 | potassium bromate                                   | ≥0–<0.1%  |

## 4 First-aid measures

· **Description of first aid measures**

· **General information:** No special measures required.

· **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.

· **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 fighting measures that suit the environment.

· **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:** Dilute with plenty of water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

|           |                    |                        |
|-----------|--------------------|------------------------|
| 7758-19-2 | sodium chlorite    | 0.15 mg/m <sup>3</sup> |
| 7647-15-6 | sodium bromide     | 12 mg/m <sup>3</sup>   |
| 3811-04-9 | potassium chlorate | 5.6 mg/m <sup>3</sup>  |

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|           |                   |                        |
|-----------|-------------------|------------------------|
| 7758-01-2 | potassium bromate | 0.30 mg/m <sup>3</sup> |
|-----------|-------------------|------------------------|

· **PAC-2:**

|           |                    |                       |
|-----------|--------------------|-----------------------|
| 7758-19-2 | sodium chlorite    | 1.7 mg/m <sup>3</sup> |
| 7647-15-6 | sodium bromide     | 130 mg/m <sup>3</sup> |
| 3811-04-9 | potassium chlorate | 62 mg/m <sup>3</sup>  |
| 7758-01-2 | potassium bromate  | 5.2 mg/m <sup>3</sup> |

· **PAC-3:**

|           |                    |                       |
|-----------|--------------------|-----------------------|
| 7758-19-2 | sodium chlorite    | 10 mg/m <sup>3</sup>  |
| 7647-15-6 | sodium bromide     | 830 mg/m <sup>3</sup> |
| 3811-04-9 | potassium chlorate | 370 mg/m <sup>3</sup> |
| 7758-01-2 | potassium bromate  | 31 mg/m <sup>3</sup>  |

· **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

- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** 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/personal protection

- **Control parameters**
- **Components 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 that were valid during the creation were used as basis.
- **Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling.
- **Body protection:** Protective work clothing

## \* 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

- |                                            |                                     |
|--------------------------------------------|-------------------------------------|
| · Physical state                           | Liquid                              |
| · Color:                                   | Colorless                           |
| · Odor:                                    | Odorless                            |
| · Odor threshold:                          | Not determined.                     |
| · Melting point/Melting range:             | 0 °C (32 °F)                        |
| · Boiling point/Boiling range:             | 100 °C (212 °F)                     |
| · Flammability:                            | Not applicable.                     |
| · Explosion limits:                        |                                     |
| · Lower:                                   | Not determined.                     |
| · Upper:                                   | Not determined.                     |
| · Flash point:                             | Not applicable.                     |
| · Decomposition temperature:               | Not determined.                     |
| · pH-value:                                | Not determined.                     |
| · Viscosity:                               |                                     |
| · Kinematic:                               | Not determined.                     |
| · Dynamic at 20 °C (68 °F):                | 0.952 mPas                          |
| · Solubility in / Miscibility with         |                                     |
| · Water:                                   | Fully miscible.                     |
| · Partition coefficient (n-octanol/water): | Not determined.                     |
| · Vapor pressure at 20 °C (68 °F):         | 23 hPa (17.3 mm Hg)                 |
| · Vapor pressure:                          |                                     |
| · Density at 20 °C (68 °F):                | 1 g/cm <sup>3</sup> (8.345 lbs/gal) |
| · Relative density                         | Not determined.                     |
| · Vapor density                            | Not determined.                     |
| · Particle characteristics                 | Not applicable.                     |

### · Other information

- |                                                                                 |                                               |
|---------------------------------------------------------------------------------|-----------------------------------------------|
| · Appearance:                                                                   |                                               |
| · Form:                                                                         | Fluid                                         |
| · Important information on protection of health and environment, and on safety. |                                               |
| · Ignition temperature:                                                         | Product is not selfigniting.                  |
| · Danger of explosion:                                                          | Product does not present an explosion hazard. |
| · Solvent content:                                                              |                                               |
| · Water:                                                                        | 98–99.9 %                                     |
| · VOC content:                                                                  | 0.00 %                                        |
|                                                                                 | 0.0 g/l / 0.00 lb/gal                         |
| · Solids content:                                                               | 0–0.2 %                                       |
| · Change in condition                                                           |                                               |
| · Evaporation rate                                                              | Not determined.                               |

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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:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Interactive effects** No interactive effects between components are known.
- **Carcinogenic categories**

### · IARC (International Agency for Research on Cancer)

|           |                   |    |
|-----------|-------------------|----|
| 7758-19-2 | sodium chlorite   | 3  |
| 7758-01-2 | potassium bromate | 2B |

### · NTP (National Toxicology Program)

None of the ingredients is listed.

### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

- **Alternative sources for toxicological information** No non-standard sources for toxicological information where used.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects**
- **Additional ecological information:**
- **General notes:** Not hazardous for water.

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## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

|                                                                                   |                 |
|-----------------------------------------------------------------------------------|-----------------|
| · <b>UN-Number</b>                                                                |                 |
| · <b>DOT, IMDG, IATA</b>                                                          | not regulated   |
| · <b>UN proper shipping name</b>                                                  |                 |
| · <b>DOT, IMDG, IATA</b>                                                          | not regulated   |
| · <b>Transport hazard class(es)</b>                                               |                 |
| · <b>DOT, ADN, IMDG, IATA</b>                                                     |                 |
| · <b>Class</b>                                                                    | not regulated   |
| · <b>Packing group</b>                                                            |                 |
| · <b>DOT, IMDG, IATA</b>                                                          | not regulated   |
| · <b>Environmental hazards:</b>                                                   | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable. |
| · <b>Special precautions for user</b>                                             | Not applicable. |
| · <b>UN "Model Regulation":</b>                                                   | not regulated   |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.
- **Sara**

|                                                                      |
|----------------------------------------------------------------------|
| · <b>Section 355 (extremely hazardous substances):</b>               |
| None of the ingredients is listed.                                   |
| · <b>Section 313 (Specific toxic chemical listings):</b>             |
| 7758-01-2   potassium bromate                                        |
| · <b>TSCA (Toxic Substances Control Act):</b>                        |
| All components have the value ACTIVE.                                |
| · <b>Hazardous Air Pollutants</b>                                    |
| None of the ingredients is listed.                                   |
| · <b>Proposition 65</b>                                              |
| · <b>Chemicals known to cause cancer:</b>                            |
| 7758-01-2   potassium bromate                                        |
| · <b>Chemicals known to cause reproductive toxicity for females:</b> |
| None of the ingredients is listed.                                   |

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|                                                                                             |                   |                         |
|---------------------------------------------------------------------------------------------|-------------------|-------------------------|
| · <b>Chemicals known to cause reproductive toxicity for males:</b>                          |                   |                         |
| None of the ingredients is listed.                                                          |                   |                         |
| · <b>Chemicals known to cause developmental toxicity:</b>                                   |                   |                         |
| None of the ingredients is listed.                                                          |                   |                         |
| · <b>Carcinogenic categories</b>                                                            |                   |                         |
| · <b>EPA (Environmental Protection Agency)</b>                                              |                   |                         |
| 7758-19-2                                                                                   | sodium chlorite   | D, CBD                  |
| 7758-01-2                                                                                   | potassium bromate | B2, K/L(oral), CBD(inh) |
| · <b>TLV (Threshold Limit Value)</b>                                                        |                   |                         |
| None of the ingredients is listed.                                                          |                   |                         |
| · <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>                   |                   |                         |
| None of the ingredients is listed.                                                          |                   |                         |
| · <b>GHS label elements</b> Void                                                            |                   |                         |
| · <b>Hazard pictograms</b> Void                                                             |                   |                         |
| · <b>Signal word</b> Void                                                                   |                   |                         |
| · <b>Hazard statements</b> Void                                                             |                   |                         |
| · <b>Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out. |                   |                         |

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Environment protection department.
- **Contact:** - Department Technical Manager
- **Date of previous version** 03/26/2024
- **Date of preparation** 06/30/2026
- **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
  - DOT: US Department of Transportation
  - 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)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - VOC: Volatile Organic Compounds (USA, EU)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
- **\* Data compared to the previous version altered.**