



## SAFETY DATA SHEET

According to  
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

### Section 1. Identification of the material and the supplier

Product: **C-Tec Quatsan**  
Other Names: Quatsan  
Product Use: Non-Fragranced Disinfectant Cleaner  
Restriction of Use: Refer to Section 15

New Zealand Supplier: **2CARE PRODUCTS**  
Address: 9 Donnor Place  
Mt Wellington  
Auckland

Telephone: 0800 753 753  
Fax: 09 574 5999  
**Emergency No: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 5 October 2022

### Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

**EPA Approval No: Cleaning Products (Flammable) – HSR002528**

#### Pictograms



Signal Word: **Warning**

| GHS Classification and Category                     | HSNO Classification | Hazard Code | Hazard Statement                                   |
|---|---------------------|-------------|--|
| Flammable Liquids Cat. 3                            | 3.1C                | H226        | Flammable liquid and vapour.                       |
| Skin irritation Cat. 2                              | 6.3A                | H315        | Causes skin irritation.                            |
| Eye irritation Cat. 2                               | 8.3A                | H319        | Causes serious eye irritation.                     |
| Hazardous to the aquatic environment chronic Cat. 3 | 9.1A/B              | H412        | Harmful to aquatic life with long lasting effects. |

| Prevention Code | Prevention Statement  |
|-----------------|---|
| P103            | Read label before use.  |
| P210            | Keep away from heat, sparks, open flames or hot surfaces. No smoking. |
| P233            | Keep container tightly closed.  |
| P240            | Ground, bond container and receiving equipment.                       |
| P241            | Use explosion-proof electrical, ventilating and lighting.             |
| P242            | Use only non-sparking tools.  |

|      |   |
|------|---|
| P243 | Take precautionary measures against static discharge. |
| P264 | Wash hands thoroughly after handling.                 |
| P273 | Avoid release to the environment.                     |
| P280 | Wear protective clothing as detailed in Section 8.    |

| Response Code    | Response Statement   |
|------------------|--|
| P362             | Take off contaminated clothing and wash before re-use.   |
| P303 + P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.                       |
| P305 + P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P332 + P313      | If skin irritation occurs: Get medical advice/ attention.  |
| P337 + P313      | If eye irritation persists: Get medical advice/attention.  |
| P370 + P378      | In case of fire: Use extinguishing media appropriate for surrounding fire for extinction.  |

| Storage Code | Storage Statement                            |
|--------------|--|
| P403 + P235  | Store in a well-ventilated place. Keep cool. |

| Disposal Code | Disposal Statement                                       |
|---------------|--|
| P501          | Dispose of according to Local Regulations or Authorities |

### Section 3. Composition / Information on Hazardous Ingredients

| Ingredients  | Wt%    | CAS NUMBER. |
|--|--------|-------------|
| Benzalkonium Chloride  | 1-5    | 68424-85-1  |
| Isopopyl IPA   | 1-5    | 67-63-0     |
| Hazardous products not triggering final classification and Non-hazardous ingredients | To bal |             |

### Section 4. First Aid Measures

Routes of Exposure:

|              |  |
|--------------|--|
| If in Eyes   | Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  |
| If on Skin   | Take off contaminated clothing and wash before re-use. Wash skin with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.   |
| If Swallowed | Do not induce vomiting. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTER or doctor/physician if you feel unwell. |
| If Inhaled   | Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.  |

#### Most important symptoms and effects, both acute and delayed

Symptoms:

|                    |                                |
|--------------------|--------------------------------|
| <b>Ingestion:</b>  | Not applicable                 |
| <b>Inhalation:</b> | Not applicable                 |
| <b>Skin:</b>       | Causes skin irritation.        |
| <b>Eye:</b>        | Causes serious eye irritation. |

**Notes to Doctor:** Treat symptomatically based on judgement of doctor and individual reactions of patient. Give 100% humidified supplemental oxygen with artificial respiration if patient breathing is compromised.

## Section 5. Fire Fighting Measures

|   |   |
|---|---|
| <b>Hazard Type</b>  | Flammable Liquid  |
| <b>Hazards from combustion products</b>                             | In the event of fire toxic fumes may be produced by burning packaging.  |
| <b>Suitable Extinguishing media</b>                                 | Use extinguishing media appropriate for surrounding fire.   |
| <b>Precautions for firefighters and special protective clothing</b> | Wear positive pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (including Helmet, Coat, Trousers, Boots and Gloves or chemical splash suit). DO NOT allow spillage or firefighting water to reach waterways, drains or sewers. |
| <b>HAZCHEM CODE</b>   | <b>3Y</b>   |

## Section 6. Accidental Release Measures

### General Response Procedures:

Clear area of all unprotected personnel. Allow only trained personnel wearing appropriate protective equipment to be involved in spill response. Contain spill immediately, avoid further accidents, clean up immediately.

### Environmental Precautionary Measures:

Prevent run off into drains and waterways. If contamination of sewers or waterways has occurred advise the Environmental Protection Authority and/or your local Waste Authority.

### Clean Up Procedures:

Stop leak if safe to do so. Contain spill immediately with bunding. Contain spill, prevent discharge into soil or watercourses/drains. Absorb spill with sand, or earth. Transfer saturated material to suitable, labelled DRY containers for disposal. Wash area down with water and collect washings for disposal. Dispose as per Section 13.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read label before use.
- Wash hands thoroughly after handling.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep container tightly closed.
- Ground, bond container and receiving equipment.
- Use explosion-proof electrical, ventilating and lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Ensure an eye bath is available and ready for use.
- Avoid contact with eyes, skin and clothing.
- Do not inhale product.
- Always remove contaminated clothing and wash hands after handling or before eating, drinking, smoking or using the toilet.
- Wash contaminated clothing and other protective equipment before storage or re-use.'

### Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.

- Store upright in the original container in a cool, dry, well-ventilated protected area out of direct sunlight and away from foodstuffs.
- Keep containers tightly closed when not in use.
- Inspect regularly for deficiencies such as damage or leaks.
- Do not combine part containers of the same product.
- Emergency eye-washes must be available.
- Store in original packaging as approved by manufacturer.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance                   | TWA |                   | STEL |                   |
|-----------------------------|-----|-------------------|------|-------------------|
|                             | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| Isopropyl alcohol [67-63-0] | 400 | 983               | 500  | 1230              |

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2020 12<sup>TH</sup> EDITION.

### Engineering Controls

General exhaust is adequate under normal operating conditions. Provide eyewash stations.

### Personal Protection Equipment



|                    |  |
|--------------------|--|
| <b>Eyes</b>        | Use splash proof safety goggles, and/or if necessary an appropriate full-face shield that conform to AS1336/1337.  |
| <b>Hands</b>       | Any Gloves approved for chemical hazards that conform to AS2161.   |
| <b>Skin</b>        | Trousers, Long sleeved shirt and closed shoes.   |
| <b>Respiratory</b> | If determined an inhalation risk is present. Use a P2 grade valved disposable mask which is suitable for organic vapours and conforms to the requirements of AS1715/1716). |

## Section 9 Physical and Chemical Properties

|   |                     |
|---|---------------------|
| <b>Appearance</b>                       | Free flowing liquid |
| <b>Colour</b>                           | Blue                |
| <b>Odour</b>                            | Odourless           |
| <b>Odour Threshold</b>                  | Not available       |
| <b>pH</b>                               | 7.5 – 8.5           |
| <b>Boiling Point</b>                    | Not available       |
| <b>Melting Point</b>                    | Not available       |
| <b>Freezing Point</b>                   | Not available       |
| <b>Flash Point</b>                      | 55°C                |
| <b>Flammability</b>                     | Flammable           |
| <b>Upper and Lower Explosive Limits</b> | Not available       |
| <b>Vapour Pressure</b>                  | Not available       |
| <b>Vapour Density</b>                   | Not available       |
| <b>Specific Gravity</b>                 | Not available       |
| <b>Water Solubility</b>                 | Complete in water   |
| <b>Partition Coefficient:</b>           | Not available       |
| <b>Auto-ignition</b>                    | Not available       |

|                                  |               |
|----------------------------------|---------------|
| <b>Temperature</b>               |               |
| <b>Decomposition Temperature</b> | Not available |
| <b>Kinematic Viscosity</b>       | Not available |
| <b>Particle Characteristics</b>  | Not available |
| <b>Shelf life</b>                | Not available |

### Section 10. Stability and Reactivity

|   |  |
|---|--|
| <b>Stability of Substance</b>             | This product is stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | Not available  |
| <b>Conditions to Avoid</b>                | Avoid contact with foodstuffs. Do not combine part drums of the same product. Avoid sources of ignition. |
| <b>Incompatible Materials</b>             | No data available.   |
| <b>Hazardous Decomposition Products</b>   | The packaging material may burn to emit noxious fumes.   |

### Section 11 Toxicological Information

#### Acute Effects:

|                   |                                     |
|-------------------|-------------------------------------|
| <b>Swallowed</b>  | Not applicable. = LD50 = 20280mg/kg |
| <b>Dermal</b>     | Not applicable.                     |
| <b>Inhalation</b> | Not applicable.                     |
| <b>Eye</b>        | Causes serious eye irritation.      |
| <b>Skin</b>       | Causes skin irritation.             |

#### Chronic Effects:

|                               |                 |
|-------------------------------|-----------------|
| <b>Carcinogenicity</b>        | Not applicable. |
| <b>Reproductive Toxicity</b>  | Not applicable. |
| <b>Germ Cell Mutagenicity</b> | Not applicable. |
| <b>Aspiration</b>             | Not applicable. |
| <b>STOT/SE</b>                | Not applicable. |
| <b>STOT/RE</b>                | Not applicable. |

#### Individual component information:

##### Acute Toxicity:

| Chemical Name                      | Oral – LD50       | Dermal – LD50 | Inhalation – LC50 |
|------------------------------------|-------------------|---------------|-------------------|
| Benzalkonium Chloride (68424-85-1) | 397.5 mg/kg (rat) | -             | -                 |

### Section 12. Ecotoxicological Information

Harmful to aquatic life with long lasting effects.

|                                      |                              |
|--------------------------------------|------------------------------|
| <b>Product:</b>                      |                              |
| <b>Persistence and degradability</b> | Readily biodegradable.       |
| <b>Bioaccumulation</b>               | Low risk of Bioaccumulation. |
| <b>Mobility</b>                      | Completely soluble in water. |
| <b>Other adverse effects</b>         | No data available.           |

Benzalkonium Chloride LC<sub>50</sub> (Fathead Minnow Chronic, 34d): 0.0322mg/L (Pimephales promelas)  
 LC<sub>50</sub> (Fathead Minnow Acute, 96h): 0.28 mg/L (Pimephales promelas)  
 EC<sub>50</sub> (Water Flea, 48h): 0.0059 mg/L (Daphnia magna)  
 EC<sub>50</sub> (Green Algae, 72h): 0.08mg/L (Scenedesmus pannonicus)

Do not allow to enter waterways.

### Section 13. Disposal Considerations

**Disposal Method:**

Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recovered for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Flammable" and that the label also has the Flammable Pictogram, waste type identifier, and the business name, address, and phone number.

**Precautions or methods to avoid:** Avoid release to the environment.

### Section 14 Transport Information

**This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**



**Road, Rail, Sea and Air Transport**

|                             |  |
|-----------------------------|--|
| <b>UN No</b>                | 1993   |
| <b>Class - Primary</b>      | 3  |
| <b>Packing Group</b>        | III  |
| <b>Subsidiary Risk</b>      | 9  |
| <b>Proper Shipping Name</b> | FLAMMABLE LIQUID N.O.S   |
| <b>Marine Pollutant</b>     | No   |
| <b>Special Provisions</b>   | If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG. |

### Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Cleaning Products (Flammable) – HSR002528

| <b>HSW (HS) Regulations 2017 and EPA Notices</b> | <b>Trigger Quantity</b>            |
|--|------------------------------------|
| Certified Handler                                | Not required                       |
| Location Certificate                             | 500L                               |
| Tracking Trigger Quantities                      | Not required                       |
| Signage Trigger Quantities                       | 1000L                              |
| Emergency Response Plan                          | 1000L                              |
| Secondary Containment                            | 1000L                              |
| Restriction of Use                               | Only use for the intended purpose. |

### Section 16 Other Information

**Glossary**

Cat  
EC<sub>50</sub>

Category  
Median effective concentration.

|                  |   |
|------------------|---|
| EEL              | Environmental Exposure Limit.   |
| EPA              | Environmental Protection Authority  |
| HSNO             | Hazardous Substances and New Organisms.   |
| HSW              | Health and Safety at Work.  |
| LC <sub>50</sub> | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| LD <sub>50</sub> | Lethal dose to kill 50% of test animals/organisms.                                      |
| LEL              | Lower explosive level.  |
| OSHA             | American Occupational Safety and Health Administration.                                 |
| TEL              | Tolerable Exposure Limit.   |
| TLV              | Threshold Limit Value-an exposure limit set by responsible authority.                   |
| UEL              | Upper Explosive Level   |
| WES              | Workplace Exposure Limit  |

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2020 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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