



## Homebright Disinfectant Spray - Country Scent

JTC Import Export Pty Ltd

Chemwatch: 5393-03  
Version No: 3.1.1.1  
Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 4

Issue Date: 07/03/2020  
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S.GHS.AUS.EN

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### Product Identifier

|                               |  |
|-------------------------------|--|
| Product name                  | Homebright Disinfectant Spray - Country Scent                            |
| Synonyms                      | Product Code: 67539; 67540; Homebright Disinfectant Spray - Citrus Scent |
| Proper shipping name          | AEROSOLS   |
| Other means of identification | Not Available  |

#### Relevant identified uses of the substance or mixture and uses advised against

|                          |  |
|--------------------------|--|
| Relevant identified uses | This product is an EPA - registered end-use antimicrobial aerosol spray. |
|--------------------------|--|

#### Details of the supplier of the safety data sheet

|                         |   |
|-------------------------|---|
| Registered company name | JTC Import Export Pty Ltd   |
| Address                 | 98 South Park Drive Dandenong South VIC 3175 Australia                            |
| Telephone               | +61 3 9532 5100   |
| Fax                     | +61 3 9532 6102   |
| Website                 | <a href="http://www.jtcimportexport.com.au">http://www.jtcimportexport.com.au</a> |
| Email                   | <a href="mailto:sales@jtcimportexport.com.au">sales@jtcimportexport.com.au</a>    |

#### Emergency telephone number

|                                   |  |
|-----------------------------------|--|
| Association / Organisation        | JTC Import Export Pty Ltd  |
| Emergency telephone numbers       | +61 3 9532 5100 (Mon-Thurs 8.30am to 5.30pm; Friday 8.30am to 3pm) |
| Other emergency telephone numbers | Not Available  |

### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

|                    |   |
|--------------------|---|
| Poisons Schedule   | Not Applicable  |
| Classification [1] | Flammable Aerosols Category 1, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Germ cell mutagenicity Category 2, Acute Aquatic Hazard Category 3 |
| Legend:            | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI                                 |

#### Label elements

|                     |  |
|---------------------|--|
| Hazard pictogram(s) |  |
|---------------------|--|

SIGNAL WORD **DANGER**

#### Hazard statement(s)

|      |                                       |
|------|---------------------------------------|
| H222 | Extremely flammable aerosol.          |
| H315 | Causes skin irritation.               |
| H319 | Causes serious eye irritation.        |
| H341 | Suspected of causing genetic defects. |
| H402 | Harmful to aquatic life.              |

Continued...

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|        |  |
|--------|--|
| AUH044 | Risk of explosion if heated under confinement. |
|--------|--|

## Precautionary statement(s) Prevention

|      |  |
|------|--|
| P201 | Obtain special instructions before use.                                    |
| P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking.         |
| P211 | Do not spray on an open flame or other ignition source.                    |
| P251 | Pressurized container: Do not pierce or burn, even after use.              |
| P281 | Use personal protective equipment as required.                             |
| P273 | Avoid release to the environment.  |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

## Precautionary statement(s) Response

|                |  |
|----------------|--|
| P308+P313      | IF exposed or concerned: Get medical advice/attention.   |
| P321           | Specific treatment (see advice on this label).   |
| P362           | Take off contaminated clothing and wash before reuse.  |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |
| P302+P352      | IF ON SKIN: Wash with plenty of water.   |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.   |

## Precautionary statement(s) Storage

|           |  |
|-----------|--|
| P405      | Store locked up.   |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |

## Precautionary statement(s) Disposal

|      |  |
|------|--|
| P501 | Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. |
|------|--|

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

## Substances

See section below for composition of Mixtures

## Mixtures

| CAS No      | %[weight] | Name  |
|-------------|-----------|---|
| 64-17-5     | 15-40     | <a href="#">ethanol</a>                                       |
| 67-63-0     | 1-5       | <a href="#">isopropanol</a>                                   |
| 7632-00-0   | 0.1-1     | <a href="#">sodium nitrite</a>                                |
| 85409-23-0  | 0.1-1     | <a href="#">benzyl C12-14 alkyltrimethylammonium chloride</a> |
| 110-91-8    | NotSpec   | <a href="#">morpholine</a>                                    |
| 68476-85-7. | 4-12      | <a href="#">hydrocarbon propellant</a>                        |

## SECTION 4 FIRST AID MEASURES

## Description of first aid measures

|              |   |
|--------------|---|
| Eye Contact  | <ul style="list-style-type: none"> <li>▶ If in eyes, hold eyelids apart and flush the eye continuously with running water.</li> <li>▶ Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> <p>If aerosols come in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Transport to hospital or doctor without delay.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> |
| Skin Contact | <p>If solids or aerosol mists are deposited upon the skin:</p> <ul style="list-style-type: none"> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Remove any adhering solids with industrial skin cleansing cream.</li> <li>▶ <b>DO NOT use solvents.</b></li> <li>▶ Seek medical attention in the event of irritation.</li> </ul>   |
| Inhalation   | <p>If aerosols, fumes or combustion products are inhaled:</p> <ul style="list-style-type: none"> <li>▶ Remove to fresh air.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor.</li> </ul>   |

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|                  |  |
|------------------|--|
| <b>Ingestion</b> | <ul style="list-style-type: none"> <li>▶ If swallowed do <b>NOT</b> induce vomiting.</li> <li>▶ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>▶ Observe the patient carefully.</li> <li>▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>▶ Seek medical advice.</li> </ul> |
|------------------|--|

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5 FIREFIGHTING MEASURES

### Extinguishing media

- ▶ Alcohol stable foam.
- ▶ Dry chemical powder.
- ▶ BCF (where regulations permit).
- ▶ Carbon dioxide.
- ▶ Water spray or fog - Large fires only.

#### SMALL FIRE:

- ▶ Water spray, dry chemical or CO2

#### LARGE FIRE:

- ▶ Water spray or fog.

### Special hazards arising from the substrate or mixture

|                             |  |
|-----------------------------|--|
| <b>Fire Incompatibility</b> | ▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result |
|-----------------------------|--|

### Advice for firefighters

|                              |   |
|------------------------------|---|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ May be violently or explosively reactive.</li> <li>▶ Wear breathing apparatus plus protective gloves.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> <li>▶ If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>▶ Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>▶ <b>DO NOT</b> approach containers suspected to be hot.</li> <li>▶ Cool fire exposed containers with water spray from a protected location.</li> <li>▶ If safe to do so, remove containers from path of fire.</li> <li>▶ Equipment should be thoroughly decontaminated after use.</li> </ul>  |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Liquid and vapour are highly flammable.</li> <li>▶ Severe fire hazard when exposed to heat or flame.</li> <li>▶ Vapour forms an explosive mixture with air.</li> <li>▶ Severe explosion hazard, in the form of vapour, when exposed to flame or spark.</li> <li>▶ Vapour may travel a considerable distance to source of ignition.</li> <li>▶ Heating may cause expansion or decomposition with violent container rupture.</li> <li>▶ Aerosol cans may explode on exposure to naked flames.</li> <li>▶ Rupturing containers may rocket and scatter burning materials.</li> <li>▶ Hazards may not be restricted to pressure effects.</li> <li>▶ May emit acrid, poisonous or corrosive fumes.</li> <li>▶ On combustion, may emit toxic fumes of carbon monoxide (CO).</li> </ul> <p>Combustion products include:<br/>carbon dioxide (CO2)<br/>nitrogen oxides (NOx)<br/>other pyrolysis products typical of burning organic material.</p> |
| <b>HAZCHEM</b>               | Not Applicable  |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

See section 8

### Environmental precautions

See section 12

### Methods and material for containment and cleaning up

|                     |   |
|---------------------|---|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <li>▶ Clean up all spills immediately.</li> <li>▶ Avoid breathing vapours and contact with skin and eyes.</li> <li>▶ Wear protective clothing, impervious gloves and safety glasses.</li> <li>▶ Shut off all possible sources of ignition and increase ventilation.</li> <li>▶ Wipe up.</li> <li>▶ If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.</li> <li>▶ Undamaged cans should be gathered and stowed safely.</li> </ul>   |
| <b>Major Spills</b> | <ul style="list-style-type: none"> <li>▶ Clear area of personnel and move upwind.</li> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ May be violently or explosively reactive.</li> <li>▶ Wear breathing apparatus plus protective gloves.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water courses</li> <li>▶ No smoking, naked lights or ignition sources.</li> <li>▶ Increase ventilation.</li> <li>▶ Stop leak if safe to do so.</li> <li>▶ Water spray or fog may be used to disperse / absorb vapour.</li> </ul> |

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- ▶ Absorb or cover spill with sand, earth, inert materials or vermiculite.
- ▶ If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated.
- ▶ Undamaged cans should be gathered and stowed safely.
- ▶ Collect residues and seal in labelled drums for disposal.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 HANDLING AND STORAGE

## Precautions for safe handling

|                          |   |
|--------------------------|---|
| <b>Safe handling</b>     | <ul style="list-style-type: none"> <li>▶ Avoid all personal contact, including inhalation.</li> <li>▶ Wear protective clothing when risk of exposure occurs.</li> <li>▶ Use in a well-ventilated area.</li> <li>▶ Prevent concentration in hollows and sumps.</li> <li>▶ <b>DO NOT enter confined spaces until atmosphere has been checked.</b></li> <li>▶ Avoid smoking, naked lights or ignition sources.</li> <li>▶ Avoid contact with incompatible materials.</li> <li>▶ <b>When handling, DO NOT eat, drink or smoke.</b></li> <li>▶ <b>DO NOT incinerate or puncture aerosol cans.</b></li> <li>▶ <b>DO NOT spray directly on humans, exposed food or food utensils.</b></li> <li>▶ Avoid physical damage to containers.</li> <li>▶ Always wash hands with soap and water after handling.</li> <li>▶ Work clothes should be laundered separately.</li> <li>▶ Use good occupational work practice.</li> <li>▶ Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>▶ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul> |
| <b>Other information</b> | <ul style="list-style-type: none"> <li>▶ Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can</li> <li>▶ Store in original containers in approved flammable liquid storage area.</li> <li>▶ <b>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</b></li> <li>▶ No smoking, naked lights, heat or ignition sources.</li> <li>▶ Keep containers securely sealed. Contents under pressure.</li> <li>▶ Store away from incompatible materials.</li> <li>▶ Store in a cool, dry, well ventilated area.</li> <li>▶ Avoid storage at temperatures higher than 40 deg C.</li> <li>▶ Store in an upright position.</li> <li>▶ Protect containers against physical damage.</li> <li>▶ Check regularly for spills and leaks.</li> <li>▶ Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>   |

## Conditions for safe storage, including any incompatibilities

|                                |  |
|--------------------------------|--|
| <b>Suitable container</b>      | <ul style="list-style-type: none"> <li>▶ Aerosol dispenser.</li> <li>▶ Check that containers are clearly labelled.</li> </ul>                                      |
| <b>Storage incompatibility</b> | <ul style="list-style-type: none"> <li>▶ Avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates.</li> <li>▶ Avoid strong bases.</li> </ul> |

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## Control parameters

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

| Source                       | Ingredient             | Material name                 | TWA                   | STEL                 | Peak          | Notes         |
|------------------------------|------------------------|-------------------------------|-----------------------|----------------------|---------------|---------------|
| Australia Exposure Standards | ethanol                | Ethyl alcohol                 | 1000 ppm / 1880 mg/m3 | Not Available        | Not Available | Not Available |
| Australia Exposure Standards | isopropanol            | Isopropyl alcohol             | 400 ppm / 983 mg/m3   | 1230 mg/m3 / 500 ppm | Not Available | Not Available |
| Australia Exposure Standards | morpholine             | Morpholine                    | 20 ppm / 71 mg/m3     | Not Available        | Not Available | Not Available |
| Australia Exposure Standards | hydrocarbon propellant | LPG (liquified petroleum gas) | 1000 ppm / 1800 mg/m3 | Not Available        | Not Available | Not Available |

## EMERGENCY LIMITS

| Ingredient             | Material name                     | TEEL-1        | TEEL-2        | TEEL-3       |
|------------------------|-----------------------------------|---------------|---------------|--------------|
| ethanol                | Ethanol: (Ethyl alcohol)          | Not Available | Not Available | 15000* ppm   |
| isopropanol            | Isopropyl alcohol                 | 400 ppm       | 2000* ppm     | 12000** ppm  |
| sodium nitrite         | Sodium nitrite                    | 6.4 mg/m3     | 71 mg/m3      | 240 mg/m3    |
| morpholine             | Morpholine                        | 30 ppm        | 1,300 ppm     | 8000** ppm   |
| hydrocarbon propellant | Liquified petroleum gas; (L.P.G.) | 65,000 ppm    | 2.30E+05 ppm  | 4.00E+05 ppm |

| Ingredient                                   | Original IDLH | Revised IDLH  |
|--|---------------|---------------|
| ethanol                                      | 3,300 ppm     | Not Available |
| isopropanol                                  | 2,000 ppm     | Not Available |
| sodium nitrite                               | Not Available | Not Available |
| benzyl C12-14 alkyldimethylammonium chloride | Not Available | Not Available |

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|                        |           |               |
|------------------------|-----------|---------------|
| morpholine             | 1,400 ppm | Not Available |
| hydrocarbon propellant | 2,000 ppm | Not Available |

**OCCUPATIONAL EXPOSURE BANDING**

| Ingredient                                    | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|---|-----------------------------------|----------------------------------|
| sodium nitrite                                | E                                 | ≤ 0.01 mg/m <sup>3</sup>         |
| benzyl C12-14 alkyltrimethylammonium chloride | E                                 | ≤ 0.01 mg/m <sup>3</sup>         |

**Notes:** Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

**Exposure controls**

| <b>Appropriate engineering controls</b>   | <p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.</p> <p>Employers may need to use multiple types of controls to prevent employee overexposure.</p> <p>General exhaust is adequate under normal conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection.</p> <p>Provide adequate ventilation in warehouse or closed storage areas.</p> <p>Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.</p> <table border="1"> <thead> <tr> <th>Type of Contaminant:</th> <th>Speed:</th> </tr> </thead> <tbody> <tr> <td>aerosols, (released at low velocity into zone of active generation)</td> <td>0.5-1 m/s</td> </tr> <tr> <td>direct spray, spray painting in shallow booths, gas discharge (active generation into zone of rapid air motion)</td> <td>1-2.5 m/s (200-500 f/min.)</td> </tr> </tbody> </table> <p>Within each range the appropriate value depends on:</p> <table border="1"> <thead> <tr> <th>Lower end of the range</th> <th>Upper end of the range</th> </tr> </thead> <tbody> <tr> <td>1: Room air currents minimal or favourable to capture</td> <td>1: Disturbing room air currents</td> </tr> <tr> <td>2: Contaminants of low toxicity or of nuisance value only.</td> <td>2: Contaminants of high toxicity</td> </tr> <tr> <td>3: Intermittent, low production.</td> <td>3: High production, heavy use</td> </tr> <tr> <td>4: Large hood or large air mass in motion</td> <td>4: Small hood-local control only</td> </tr> </tbody> </table> <p>Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.</p> | Type of Contaminant: | Speed: | aerosols, (released at low velocity into zone of active generation) | 0.5-1 m/s | direct spray, spray painting in shallow booths, gas discharge (active generation into zone of rapid air motion) | 1-2.5 m/s (200-500 f/min.) | Lower end of the range | Upper end of the range | 1: Room air currents minimal or favourable to capture | 1: Disturbing room air currents | 2: Contaminants of low toxicity or of nuisance value only. | 2: Contaminants of high toxicity | 3: Intermittent, low production. | 3: High production, heavy use | 4: Large hood or large air mass in motion | 4: Small hood-local control only |
|---|---|----------------------|--------|---|-----------|---|----------------------------|------------------------|------------------------|---|---------------------------------|--|----------------------------------|----------------------------------|-------------------------------|---|----------------------------------|
| Type of Contaminant:  | Speed:  |                      |        |   |           |   |                            |                        |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| aerosols, (released at low velocity into zone of active generation)   | 0.5-1 m/s   |                      |        |   |           |   |                            |                        |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| direct spray, spray painting in shallow booths, gas discharge (active generation into zone of rapid air motion) | 1-2.5 m/s (200-500 f/min.)  |                      |        |   |           |   |                            |                        |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| Lower end of the range  | Upper end of the range  |                      |        |   |           |   |                            |                        |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| 1: Room air currents minimal or favourable to capture   | 1: Disturbing room air currents   |                      |        |   |           |   |                            |                        |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| 2: Contaminants of low toxicity or of nuisance value only.  | 2: Contaminants of high toxicity  |                      |        |   |           |   |                            |                        |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| 3: Intermittent, low production.  | 3: High production, heavy use   |                      |        |   |           |   |                            |                        |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| 4: Large hood or large air mass in motion   | 4: Small hood-local control only  |                      |        |   |           |   |                            |                        |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| <b>Personal protection</b>  |    |                      |        |   |           |   |                            |                        |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| <b>Eye and face protection</b>  | <p>No special equipment for minor exposure i.e. when handling small quantities.</p> <p><b>OTHERWISE:</b> For potentially moderate or heavy exposures:</p> <ul style="list-style-type: none"> <li>▶ Safety glasses with side shields.</li> <li>▶ <b>NOTE:</b> Contact lenses pose a special hazard; soft lenses may absorb irritants and <b>ALL</b> lenses concentrate them.</li> </ul>  |                      |        |   |           |   |                            |                        |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| <b>Skin protection</b>  | See Hand protection below   |                      |        |   |           |   |                            |                        |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| <b>Hands/feet protection</b>  | <ul style="list-style-type: none"> <li>▶ No special equipment needed when handling small quantities.</li> <li>▶ <b>OTHERWISE:</b></li> <li>▶ For potentially moderate exposures:</li> <li>▶ Wear general protective gloves, eg. light weight rubber gloves.</li> <li>▶ For potentially heavy exposures:</li> <li>▶ Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>  |                      |        |   |           |   |                            |                        |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| <b>Body protection</b>  | See Other protection below  |                      |        |   |           |   |                            |                        |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| <b>Other protection</b>   | <p>No special equipment needed when handling small quantities.</p> <p><b>OTHERWISE:</b></p> <ul style="list-style-type: none"> <li>▶ Overalls.</li> <li>▶ Skin cleansing cream.</li> <li>▶ Eyewash unit.</li> <li>▶ Do not spray on hot surfaces.</li> <li>▶ The clothing worn by process operators insulated from earth may develop static charges far higher (up to 100 times) than the minimum ignition energies for various flammable gas-air mixtures. This holds true for a wide range of clothing materials including cotton.</li> <li>▶ Avoid dangerous levels of charge by ensuring a low resistivity of the surface material worn outermost.</li> </ul> <p>BREThERICK: Handbook of Reactive Chemical Hazards.</p>   |                      |        |   |           |   |                            |                        |                        |   |                                 |  |                                  |                                  |                               |   |                                  |

**Recommended material(s)****GLOVE SELECTION INDEX**

Glove selection is based on a modified presentation of the:

**"Forsberg Clothing Performance Index"**.

The effect(s) of the following substance(s) are taken into account in the **computer-**

**Respiratory protection**

Type KAX-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Continued...

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**generated** selection:

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| Material          | CPI |
|-------------------|-----|
| BUTYL             | C   |
| NAT+NEOPR+NITRILE | C   |
| NATURAL RUBBER    | C   |
| NATURAL+NEOPRENE  | C   |
| NEOPRENE          | C   |
| NITRILE           | C   |
| NITRILE+PVC       | C   |
| PE/EVAL/PE        | C   |
| PVA               | C   |
| PVC               | C   |

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator    |
|------------------------------------|----------------------|----------------------|---------------------------|
| up to 10 x ES                      | KAX-AUS P2           | -                    | KAX-PAPR-AUS / Class 1 P2 |
| up to 50 x ES                      | -                    | KAX-AUS / Class 1 P2 | -                         |
| up to 100 x ES                     | -                    | KAX-2 P2             | KAX-PAPR-2 P2 ^           |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia(NH<sub>3</sub>), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- ▶ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- ▶ The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- ▶ Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

|   |  |  |                |
|---|--|--|----------------|
| <b>Appearance</b>                                   | Clear to light yellow highly flammable liquid with linen, citrus or country fragrance odour; mixes with water. |  |                |
| <b>Physical state</b>                               | Liquid   | <b>Relative density (Water = 1)</b>            | Not Available  |
| <b>Odour</b>  | Not Available  | <b>Partition coefficient n-octanol / water</b> | Not Available  |
| <b>Odour threshold</b>                              | Not Available  | <b>Auto-ignition temperature (°C)</b>          | Not Available  |
| <b>pH (as supplied)</b>                             | 8.76 @25C  | <b>Decomposition temperature</b>               | Not Available  |
| <b>Melting point / freezing point (°C)</b>          | Not Available  | <b>Viscosity (cSt)</b>                         | 3.28 @20C      |
| <b>Initial boiling point and boiling range (°C)</b> | Not Available  | <b>Molecular weight (g/mol)</b>                | Not Applicable |
| <b>Flash point (°C)</b>                             | Not Available  | <b>Taste</b>                                   | Not Available  |
| <b>Evaporation rate</b>                             | Not Available  | <b>Explosive properties</b>                    | Not Available  |
| <b>Flammability</b>                                 | Not Available  | <b>Oxidising properties</b>                    | Not Available  |
| <b>Upper Explosive Limit (%)</b>                    | Not Available  | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Available  |
| <b>Lower Explosive Limit (%)</b>                    | Not Available  | <b>Volatile Component (%vol)</b>               | Not Available  |
| <b>Vapour pressure (kPa)</b>                        | Not Available  | <b>Gas group</b>                               | Not Available  |
| <b>Solubility in water</b>                          | Miscible   | <b>pH as a solution (1%)</b>                   | Not Available  |
| <b>Vapour density (Air = 1)</b>                     | Not Available  | <b>VOC g/L</b>                                 | Not Available  |

**SECTION 10 STABILITY AND REACTIVITY**

|   |  |
|---|--|
| <b>Reactivity</b>                         | See section 7  |
| <b>Chemical stability</b>                 | <ul style="list-style-type: none"> <li>▶ Elevated temperatures.</li> <li>▶ Presence of open flame.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul> |
| <b>Possibility of hazardous reactions</b> | See section 7  |
| <b>Conditions to avoid</b>                | See section 7  |
| <b>Incompatible materials</b>             | See section 7  |
| <b>Hazardous decomposition products</b>   | See section 5  |

**SECTION 11 TOXICOLOGICAL INFORMATION**

## Homebright Disinfectant Spray - Country Scent

## Information on toxicological effects

|              |  |
|--------------|--|
| Inhaled      | Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.<br>Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.<br><b>WARNING: Intentional misuse by concentrating/inhaling contents may be lethal.</b>  |
| Ingestion    | Accidental ingestion of the material may be damaging to the health of the individual.<br>Not normally a hazard due to physical form of product.  |
| Skin Contact | The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.<br>Spray mist may produce discomfort<br>Open cuts, abraded or irritated skin should not be exposed to this material<br>Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.  |
| Eye          | There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.  |
| Chronic      | There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.<br>Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population.<br>There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population.<br>Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation.<br><b>WARNING: Aerosol containers may present pressure related hazards.</b> |

| Homebright Disinfectant Spray - Country Scent | TOXICITY   | IRRITATION  |
|---|--|---|
|   | Not Available  | Not Available   |
| ethanol                                       | TOXICITY   | IRRITATION  |
|   | Inhalation (rat) LC50: 124.7 mg/l/4H <sup>[2]</sup>  | Eye (rabbit): 500 mg SEVERE                                       |
|   | Oral (rat) LD50: =1501 mg/kg <sup>[2]</sup>          | Eye (rabbit): 100mg/24hr-moderate                                 |
|   |  | Eye: adverse effect observed (irritating) <sup>[1]</sup>          |
|   |  | Skin (rabbit): 20 mg/24hr-moderate                                |
| isopropanol                                   | TOXICITY   | IRRITATION  |
|   | dermal (rat) LD50: =12800 mg/kg <sup>[2]</sup>       | Eye (rabbit): 10 mg - moderate                                    |
|   | Inhalation (rat) LC50: 72.6 mg/l/4h <sup>[2]</sup>   | Eye (rabbit): 100 mg - SEVERE                                     |
|   | Oral (rat) LD50: =4396 mg/kg <sup>[2]</sup>          | Eye (rabbit): 100mg/24hr-moderate                                 |
|   |  | Skin (rabbit): 500 mg - mild                                      |
| sodium nitrite                                | TOXICITY   | IRRITATION  |
|   | Inhalation (rat) LC50: 0.0055 mg/l/4H <sup>[2]</sup> | Eye (rabbit): 500 mg/24hr - mild                                  |
| benzyl C12-14 alkyldimethylammonium chloride  | TOXICITY   | IRRITATION  |
|   | Oral (rat) LD50: 447 mg/kg <sup>[2]</sup>            | Eye: adverse effect observed (irreversible damage) <sup>[1]</sup> |
| morpholine                                    | TOXICITY   | IRRITATION  |
|   | Dermal (rabbit) LD50: 499 mg/kg <sup>[2]</sup>       | Eye (rabbit): 2 mg - SEVERE                                       |
|   | Inhalation (mouse) LC50: 0.66 mg/l/2h <sup>[2]</sup> | Skin (rabbit): 995 mg/24hr-SEVERE                                 |
| hydrocarbon propellant                        | TOXICITY   | IRRITATION  |
|   | Not Available  | Not Available   |

**Legend:** 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. \* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

|             |  |
|-------------|--|
| ISOPROPANOL | Isopropanol is irritating to the eyes, nose and throat but generally not to the skin. Prolonged high dose exposure may also produce depression of the central nervous system and drowsiness. Few have reported skin irritation. It can be absorbed from the skin or when inhaled. Intentional swallowing is common particularly among alcoholics or suicide victims and also leads to fainting, breathing difficulty, nausea, vomiting and headache. In the absence of unconsciousness, recovery usually occurred. Repeated doses may damage the kidneys. A decrease in the frequency of mating has been found in among animals, and newborns have been found to have a greater incidence of low birth weight. Tumours of the testes have been observed in the male rat. |
|-------------|--|

## Homebright Disinfectant Spray - Country Scent

|  |   |
|--|---|
| <b>SODIUM NITRITE</b>  | <p>Tumorigenic - Carcinogenic by RTECS criteria.</p> <p>Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation.</p> <p>The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.</p>   |
| <b>BENZYL C12-14 ALKYLDIMETHYLAMMONIUM CHLORIDE</b>                                    | <p>For acid mists, aerosols, vapours</p> <p>Test results suggest that eukaryotic cells are susceptible to genetic damage when the pH falls to about 6.5. Cells from the respiratory tract have not been examined in this respect. Mucous secretion may protect the cells of the airway from direct exposure to inhaled acidic mists (which also protects the stomach lining from the hydrochloric acid secreted there).</p> <p>Alkyldimethylbenzylammonium chlorides are in the list of dangerous substances of council directive, classified as "harmful in contact with skin and on ingestion", and "corrosive and very toxic to aquatic organisms". It can cause dose dependent skin and eye irritation with possible deterioration of vision, possible sensitisation in those with pre-existing eczema. It does not cause cancer, genetic defect, foetal or developmental abnormality.</p> <p>For similar compound benzyl C12-18 alkyldimethyl ammonium chloride CAS RN 68391-01-5:</p>   |
| <b>MORPHOLINE</b>  | <p>The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.</p> <p>for morpholine:</p> <p>There have been no reports on incidents of acute poisoning or on the effects of short- or long-term exposure to morpholine by the general population. The phenomenon known as blue vision or glaucopsia, as well as some instances of skin and respiratory tract irritation, have been described in reports of occupational exposure to morpholine; however, no atmospheric concentrations of morpholine were given. It was reported that the number of chromosomal aberrations in the lymphocytes of peripheral blood of workers exposed for 3-10 years to morpholine at concentrations of 0.54-0.93 mg/m<sup>3</sup> did not differ significantly from controls. Undiluted morpholine is strongly irritant to skin; a dilute solution (1 to 40) was mildly irritant. The potential carcinogenicity of morpholine in exposed human populations has not been investigated.</p> <p>Morpholine is absorbed after oral, dermal and inhalation exposure. In the rat following oral and intravenous administration, morpholine is rapidly distributed, the highest concentrations being found in the intestine and muscle. In the rabbit, following intravenous and inhalation exposure, morpholine is preferentially distributed to the kidneys, lower concentrations reaching the lung, liver and blood. Morpholine does not bind significantly to plasma proteins. Plasma half-lives have been reported to be 115 (rat), 120 (hamster), and 300 min (guinea-pig). Morpholine is excreted mainly via the renal route, as the unchanged compound, in a variety of species. One day after administration, 70-90% of morpholine was found in urine. Neutralisation of morpholine enhances the rate of excretion of the compound. A small percentage of morpholine is excreted in expired air and faeces. Studies in rats, mice, hamster and rabbit indicate that morpholine is eliminated almost completely as the unmetabolised compound. In the guinea-pig, N-methylation followed by N-oxidation can occur, with up to 20% of the administered dose being metabolized. In the presence of nitrite, morpholine can be converted to NMOR both <i>in vitro</i> and <i>in vivo</i>. Depending on the dose, 0-12% of morpholine administered to rats with nitrites may be nitrosated. Immunostimulation, involving macrophage activation, may increase the extent of nitrosation. Morpholine is not highly toxic under conditions of acute exposure. The LD<sub>50</sub> after oral administration is 1-1.9 g/kg body weight in rats and 0.9 g/kg body weight in guinea-pigs. LC<sub>50</sub> values of 7.8 mg/m<sup>3</sup> (rats) and 4.9-6.9 g/m<sup>3</sup> (mice) have been reported. In the conditions of short-term and long-term inhalation exposure, the critical effects appear to be irritation of the eyes and respiratory tract. A concentration of 90 mg/m<sup>3</sup> may be considered the NOAEL in the conditions of the 13-week experiment in rats (6 h/day, 5 days/week). In a long-term inhalation study (104 weeks), increased incidences of inflammation of the cornea, and inflammation and necrosis of the nasal cavity were observed in rats at 540 mg/m<sup>3</sup>. Increased incidence of irritation of eyes and nose was also observed at 36 and 180 mg/m<sup>3</sup>. High exposures to morpholine causes severe damage to the liver and kidneys of rats and guinea-pigs. Fatty degeneration of the liver was reported in rats after feeding morpholine (0.5 g/kg body weight) daily for 56 days. When administered morpholine oleic acid salt in the drinking-water at a dose of about 0.7 g/kg body weight per day for 13 weeks, mice showed cloudy swelling of the kidney proximal tubules. Decreased body weight gain was observed in female mice in the long-term (672 days) feeding experiment at dose levels between 0.05 and 0.4 g morpholine (as oleic acid salt). At the reported levels of the present occupational and environmental exposures, morpholine does not seem to create any significant risk of systemic toxic effects. Local effects (irritation) of the eyes and respiratory tract may occur in non-controlled occupational and incidental exposures to high concentrations of airborne morpholine, and skin irritation may result from contact with liquid (even diluted) morpholine. Morpholine does not appear to be mutagenic or carcinogenic in animals. However, it can be easily nitrosated to form NMOR, which is mutagenic and carcinogenic in several species of experimental animals. Morpholine fed to rats sequentially with nitrite caused an increase in tumours, mostly hepatocellular carcinoma and sarcomas of the liver and lungs. It is therefore prudent to consider exposure to morpholine as increasing the carcinogenic risk in exposed populations.</p> |
| <b>HYDROCARBON PROPELLANT</b>  | No significant acute toxicological data identified in literature search. inhalation of the gas  |
| <b>ETHANOL &amp; ISOPROPANOL</b>   | The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.  |
| <b>ISOPROPANOL &amp; BENZYL C12-14 ALKYLDIMETHYLAMMONIUM CHLORIDE &amp; MORPHOLINE</b> | Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.   |
| <b>ISOPROPANOL &amp; MORPHOLINE</b>  | The substance is classified by IARC as Group 3:<br><b>NOT</b> classifiable as to its carcinogenicity to humans.<br>Evidence of carcinogenicity may be inadequate or limited in animal testing.  |
| <b>BENZYL C12-14 ALKYLDIMETHYLAMMONIUM CHLORIDE &amp; MORPHOLINE</b>                   | The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration.   |

|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity                    | ✗ | Carcinogenicity          | ✗ |
| Skin Irritation/Corrosion         | ✓ | Reproductivity           | ✗ |
| Serious Eye Damage/Irritation     | ✓ | STOT - Single Exposure   | ✗ |
| Respiratory or Skin sensitisation | ✗ | STOT - Repeated Exposure | ✗ |
| Mutagenicity                      | ✓ | Aspiration Hazard        | ✗ |

Legend: ✗ – Data either not available or does not fill the criteria for classification  
 ✓ – Data available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

Homebright Disinfectant Spray - Country Scent

Toxicity

| Homebright Disinfectant Spray - Country Scent | ENDPOINT      | TEST DURATION (HR) | SPECIES       | VALUE         | SOURCE        |
|---|---------------|--------------------|---------------|---------------|---------------|
|   | Not Available | Not Available      | Not Available | Not Available | Not Available |

  

| ethanol | ENDPOINT | TEST DURATION (HR) | SPECIES                       | VALUE        | SOURCE |
|---------|----------|--------------------|-------------------------------|--------------|--------|
|         | LC50     | 96                 | Fish                          | 11-mg/L      | 2      |
|         | EC50     | 48                 | Crustacea                     | 2mg/L        | 4      |
|         | EC50     | 96                 | Algae or other aquatic plants | 17.921mg/L   | 4      |
|         | NOEC     | 2016               | Fish                          | 0.000375mg/L | 4      |

  

| isopropanol | ENDPOINT | TEST DURATION (HR) | SPECIES                       | VALUE       | SOURCE |
|-------------|----------|--------------------|-------------------------------|-------------|--------|
|             | LC50     | 96                 | Fish                          | 9-640mg/L   | 2      |
|             | EC50     | 48                 | Crustacea                     | 12500mg/L   | 5      |
|             | EC50     | 96                 | Algae or other aquatic plants | 993.232mg/L | 3      |
|             | EC0      | 24                 | Crustacea                     | 5-102mg/L   | 2      |
| NOEC        | 5760     | Fish               | 0.02mg/L                      | 4           |        |

  

| sodium nitrite | ENDPOINT | TEST DURATION (HR) | SPECIES                       | VALUE          | SOURCE |
|----------------|----------|--------------------|-------------------------------|----------------|--------|
|                | LC50     | 96                 | Fish                          | 0.048mg/L      | 4      |
|                | EC50     | 48                 | Crustacea                     | ca.12.5100mg/L | 1      |
|                | EC50     | 96                 | Algae or other aquatic plants | 12.537mg/L     | 3      |
| NOEC           | 96       | Fish               | 0.02mg/L                      | 4              |        |

  

| benzyl C12-14 alkyldimethylammonium chloride | ENDPOINT | TEST DURATION (HR)            | SPECIES                       | VALUE     | SOURCE |
|--|----------|-------------------------------|-------------------------------|-----------|--------|
|  | LC50     | 96                            | Fish                          | 0.515mg/L | 2      |
|  | EC50     | 48                            | Crustacea                     | 0.016mg/L | 2      |
|  | EC50     | 96                            | Algae or other aquatic plants | 0.01mg/L  | 2      |
|  | EC10     | 96                            | Algae or other aquatic plants | 0.002mg/L | 2      |
| NOEC   | 72       | Algae or other aquatic plants | <=0.0012mg/L                  | 2         |        |

  

| morpholine | ENDPOINT | TEST DURATION (HR) | SPECIES                       | VALUE  | SOURCE |
|------------|----------|--------------------|-------------------------------|--------|--------|
|            | LC50     | 96                 | Fish                          | >1mg/L | 4      |
|            | EC50     | 48                 | Crustacea                     | 45mg/L | 2      |
|            | EC50     | 96                 | Algae or other aquatic plants | 28mg/L | 4      |
| NOEC       | 504      | Crustacea          | 5mg/L                         | 2      |        |

  

| hydrocarbon propellant | ENDPOINT | TEST DURATION (HR)            | SPECIES                       | VALUE     | SOURCE |
|------------------------|----------|-------------------------------|-------------------------------|-----------|--------|
|                        | LC50     | 96                            | Fish                          | 24.11mg/L | 2      |
|                        | EC50     | 96                            | Algae or other aquatic plants | 7.71mg/L  | 2      |
|                        | LC50     | 96                            | Fish                          | 24.11mg/L | 2      |
| EC50                   | 96       | Algae or other aquatic plants | 7.71mg/L                      | 2         |        |

**Legend:** *Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data*

Harmful to aquatic organisms.  
**DO NOT** discharge into sewer or waterways.

Persistence and degradability

| Ingredient     | Persistence: Water/Soil     | Persistence: Air            |
|----------------|-----------------------------|-----------------------------|
| ethanol        | LOW (Half-life = 2.17 days) | LOW (Half-life = 5.08 days) |
| isopropanol    | LOW (Half-life = 14 days)   | LOW (Half-life = 3 days)    |
| sodium nitrite | LOW                         | LOW                         |
| morpholine     | LOW                         | LOW                         |

Bioaccumulative potential

| Ingredient     | Bioaccumulation       |
|----------------|-----------------------|
| ethanol        | LOW (LogKOW = -0.31)  |
| isopropanol    | LOW (LogKOW = 0.05)   |
| sodium nitrite | LOW (LogKOW = 0.0564) |
| morpholine     | LOW (BCF = 2.8)       |

## Homebright Disinfectant Spray - Country Scent

## Mobility in soil

| Ingredient     | Mobility          |
|----------------|-------------------|
| ethanol        | HIGH (KOC = 1)    |
| isopropanol    | HIGH (KOC = 1.06) |
| sodium nitrite | LOW (KOC = 23.74) |
| morpholine     | LOW (KOC = 5.082) |

## SECTION 13 DISPOSAL CONSIDERATIONS

## Waste treatment methods

|                              |   |
|------------------------------|---|
| Product / Packaging disposal | <ul style="list-style-type: none"> <li>▶ <b>DO NOT</b> allow wash water from cleaning or process equipment to enter drains.</li> <li>▶ It may be necessary to collect all wash water for treatment before disposal.</li> <li>▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>▶ Where in doubt contact the responsible authority.</li> <li>▶ Consult State Land Waste Management Authority for disposal.</li> <li>▶ Discharge contents of damaged aerosol cans at an approved site.</li> <li>▶ Allow small quantities to evaporate.</li> <li>▶ <b>DO NOT</b> incinerate or puncture aerosol cans.</li> <li>▶ Bury residues and emptied aerosol cans at an approved site.</li> </ul> |
|------------------------------|---|

## SECTION 14 TRANSPORT INFORMATION

## Labels Required

|                  |  |
|------------------|--|
|                  |  |
| Marine Pollutant | NO   |
| HAZCHEM          | Not Applicable   |

## Land transport (ADG)

|                              |  |
|------------------------------|--|
| UN number                    | 1950   |
| UN proper shipping name      | AEROSOLS   |
| Transport hazard class(es)   | Class : 2.1<br>Subrisk : Not Applicable                                  |
| Packing group                | Not Applicable   |
| Environmental hazard         | Not Applicable   |
| Special precautions for user | Special provisions : 63 190 277 327 344 381<br>Limited quantity : 1000ml |

## Air transport (ICAO-IATA / DGR)

|                              |  |
|------------------------------|--|
| UN number                    | 1950   |
| UN proper shipping name      | Aerosols, flammable  |
| Transport hazard class(es)   | ICAO/IATA Class : 2.1<br>ICAO / IATA Subrisk : Not Applicable<br>ERG Code : 10L  |
| Packing group                | Not Applicable   |
| Environmental hazard         | Not Applicable   |
| Special precautions for user | Special provisions : A145 A167 A802<br>Cargo Only Packing Instructions : 203<br>Cargo Only Maximum Qty / Pack : 150 kg<br>Passenger and Cargo Packing Instructions : 203<br>Passenger and Cargo Maximum Qty / Pack : 75 kg<br>Passenger and Cargo Limited Quantity Packing Instructions : Y203<br>Passenger and Cargo Limited Maximum Qty / Pack : 30 kg G |

## Sea transport (IMDG-Code / GGVSee)

|           |      |
|-----------|------|
| UN number | 1950 |
|-----------|------|

## Homebright Disinfectant Spray - Country Scent

|                                     |                    |                            |
|-------------------------------------|--------------------|----------------------------|
| <b>UN proper shipping name</b>      | AEROSOLS           |                            |
| <b>Transport hazard class(es)</b>   | IMDG Class         | 2.1                        |
|                                     | IMDG Subrisk       | Not Applicable             |
| <b>Packing group</b>                | Not Applicable     |                            |
| <b>Environmental hazard</b>         | Not Applicable     |                            |
| <b>Special precautions for user</b> | EMS Number         | F-D , S-U                  |
|                                     | Special provisions | 63 190 277 327 344 381 959 |
|                                     | Limited Quantities | 1000 ml                    |

**Transport in bulk according to Annex II of MARPOL and the IBC code**

Not Applicable

**SECTION 15 REGULATORY INFORMATION****Safety, health and environmental regulations / legislation specific for the substance or mixture****ETHANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Exposure Standards  
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS)  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix B (Part 3)

**ISOPROPANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Exposure Standards  
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS)  
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

**SODIUM NITRITE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australia Inventory of Chemical Substances (AICS)  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 2

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 7

**BENZYL C12-14 ALKYLDIMETHYLAMMONIUM CHLORIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

**MORPHOLINE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Exposure Standards  
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

**HYDROCARBON PROPELLANT IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Exposure Standards  
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  
Chemical Footprint Project - Chemicals of High Concern List

**National Inventory Status**

| National Inventory            | Status  |
|-------------------------------|---|
| Australia - AICS              | Yes   |
| Canada - DSL                  | Yes   |
| Canada - NDSL                 | No (ethanol; hydrocarbon propellant; morpholine; benzyl C12-14 alkyldimethylammonium chloride; sodium nitrite; isopropanol)   |
| China - IECSC                 | Yes   |
| Europe - EINEC / ELINCS / NLP | Yes   |
| Japan - ENCS                  | No (benzyl C12-14 alkyldimethylammonium chloride)   |
| Korea - KECI                  | Yes   |
| New Zealand - NZIoC           | Yes   |
| Philippines - PICCS           | Yes   |
| USA - TSCA                    | No (benzyl C12-14 alkyldimethylammonium chloride)   |
| Taiwan - TCSI                 | Yes   |
| Mexico - INSQ                 | No (benzyl C12-14 alkyldimethylammonium chloride)   |
| Vietnam - NCI                 | Yes   |
| Russia - ARIPS                | No (benzyl C12-14 alkyldimethylammonium chloride)   |
| <b>Legend:</b>                | Yes = All CAS declared ingredients are on the inventory<br>No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets) |

**SECTION 16 OTHER INFORMATION**

|                      |            |
|----------------------|------------|
| <b>Revision Date</b> | 07/03/2020 |
| <b>Initial Date</b>  | 06/03/2020 |

**SDS Version Summary**

| Version | Issue Date | Sections Updated   |
|---------|------------|--|
| 3.1.1.1 | 07/03/2020 | Appearance, Environmental, Fire Fighter (fire/explosion hazard), Storage (storage incompatibility) |

**Other information**

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

**Definitions and abbreviations**

PC – TWA: Permissible Concentration-Time Weighted Average  
PC – STEL: Permissible Concentration-Short Term Exposure Limit  
IARC: International Agency for Research on Cancer  
ACGIH: American Conference of Governmental Industrial Hygienists  
STEL: Short Term Exposure Limit  
TEEL: Temporary Emergency Exposure Limit.  
IDLH: Immediately Dangerous to Life or Health Concentrations  
OSF: Odour Safety Factor  
NOAEL :No Observed Adverse Effect Level  
LOAEL: Lowest Observed Adverse Effect Level  
TLV: Threshold Limit Value  
LOD: Limit Of Detection  
OTV: Odour Threshold Value  
BCF: BioConcentration Factors  
BEI: Biological Exposure Index

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