

# PRODUCT SAFETY DATA SHEET



HEALTH • HYGIENE • HOME

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

### 1.1 Product identifier

DETTOL Disinfectant Spray Crisp Linen

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

Surface Disinfectant

### 1.3. Details of the Supplier of the Safety Data Sheet

#### The United Kingdom:

RB UK Commercial Ltd  
Wellcroft House  
Wellcroft Road  
Slough  
Berkshire  
SL1 4AQ

#### The Republic Of Ireland:

Reckitt Benckiser Ireland Ltd  
7 Riverwalk  
Citywest Business Campus  
Dublin 24  
Ireland

### 1.4 Emergency telephone number

Only available during the following office hours: 09:00 - 17:00 weekdays

**UK Contact Telephone:** 0845 769 7079

**ROI Contact Telephone:** 01 661 7318

**Contact Email:** consumer.relations-ukroi@rb.com

#### Revision Date:

1 May 2016

#### Revision

2

#### Replacing

2514864401 01 Jul 2015

#### RB Ref No:

2514864402

**Revisions:** Section 9 revision & general updates to data throughout

### Additional useful information

**Product Format:** Aerosol Disinfectant



**UN Transport Code** UN: 1950

**Class & Packing Group** 2.1

**Proper Shipping Name** Aerosols, flammable  
Store below 50°C

## SECTION 2: HAZARDS IDENTIFICATION

### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Aerosol 2, H223, H229

#### **Hazard pictograms**

:



#### **Signal word**

: Warning

#### **Hazard statements**

: Flammable aerosol.  
Pressurized container: may burst if heated.

### Precautionary statements

#### **General**

: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

#### **Prevention**

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

#### **Response**

: Not applicable.

#### **Storage**

: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### **Disposal**

: Not applicable.

#### **Hazardous ingredients (CLP)**

: Not applicable.

#### **Supplemental label elements (CLP)**

: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

| Product/ingredient name | Identifiers                                                                          | %       | Classification                                                                          |                                                                                                                          | Type |
|-------------------------|--------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------|
|                         |                                                                                      |         | 67/548/EEC                                                                              | Regulation (EC) No. 1272/2008 [CLP]                                                                                      |      |
| ethanol                 | REACH #:<br>01-2119457610-43<br>EC: 200-578-6<br>CAS: 64-17-5<br>Index: 603-002-00-5 | 30 - 60 | F; R11                                                                                  | Flam. Liq. 2, H225                                                                                                       | [2]  |
| butane                  | EC: 203-448-7<br>CAS: 106-97-8<br>Index: 601-004-00-0                                | 5 - 10  | F+; R12                                                                                 | Flam. Gas 1, H220<br>Press. Gas, H280                                                                                    | [2]  |
| propane                 | EC: 200-827-9<br>CAS: 74-98-6<br>Index: 601-003-00-5                                 | < 2.5   | F+; R12<br><br><b>See Section 16 for the full text of the R-phrases declared above.</b> | Flam. Gas 1, H220<br>Press. Gas, H280<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | [2]  |

[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorization](#)

[Annex XIV](#)

None of the components are listed.

[Substances of very high concern](#)

None of the components are listed.

**Annex XVII - Restrictions** : Not applicable.  
on the manufacture,  
placing on the market  
and use of certain  
dangerous substances,  
mixtures and articles

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

**Type**

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

- |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>                | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Inhalation</b>                 | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.                                                                                                                                                                                                                        |
| <b>Skin contact</b>               | : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Ingestion</b>                  | : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| <b>Protection of first-aiders</b> | : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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

#### Potential acute health effects

- |                     |                                                     |
|---------------------|-----------------------------------------------------|
| <b>Eye contact</b>  | : Moderately irritating to eyes.                    |
| <b>Inhalation</b>   | : No known significant effects or critical hazards. |
| <b>Skin contact</b> | : Slightly irritating to the skin.                  |
| <b>Ingestion</b>    | : No known significant effects or critical hazards. |

#### Over-exposure signs/symptoms

- |                     |                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : Adverse symptoms may include the following:<br>irritation<br>redness                    |
| <b>Inhalation</b>   | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing |
| <b>Skin contact</b> | : No specific data.                                                                       |
| <b>Ingestion</b>    | : No specific data.                                                                       |

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

- |                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Notes to physician</b>  | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| <b>Specific treatments</b> | : No specific treatment.                                                                                                    |

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : Flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

- : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

### 6.4 Reference to other sections

- : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protective measures</b>                    | : Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. |
| <b>Advice on general occupational hygiene</b> | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.                                                                                                                                                                                                                                                                                                                                          |

### 7.2 Conditions for safe storage, including any incompatibilities

- |                                                      |                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                                       | : Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. |
| <b>Do not store above the following temperature:</b> | : 50 °C                                                                                                                                                                                                                                                                                                                                                    |

### 7.3 Specific end use(s)

- |                                             |                                  |
|---------------------------------------------|----------------------------------|
| <b>Recommendations</b>                      | : Disinfectant.<br>Consumer uses |
| <b>Industrial sector specific solutions</b> | : Not available.                 |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | Exposure limit values                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Europe</b>           |                                                                                                                                                                                   |
| ethanol                 | EU OEL (Europe, 12/2011).<br>TWA: 1000 ppm 8 hours.<br>TWA: 1920 mg/m <sup>3</sup> 8 hours.                                                                                       |
| butane                  | EU OEL (Europe, 7/2012). Notes: Ministry of Labour (Brochure INRS Ed 984, July 2012). Indicative exposure limits<br>TWA: 800 ppm 8 hours.<br>TWA: 1900 mg/m <sup>3</sup> 8 hours. |
| propane                 | EU OEL (Europe, 5/2010). Oxygen Depletion [Asphyxiant].<br>OELV-8hr: 1000 ppm 8 hours.                                                                                            |

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### 8.2 Manufacturer: Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Permeation level 6, Penetration level 3 following EN374, taking into consideration the exposure of chemicals given in chapter 3.

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

|                                              |                                                                        |
|----------------------------------------------|------------------------------------------------------------------------|
| Physical state                               | : Liquid. [Liquefied compressed gas.]                                  |
| Color                                        | : Clear.                                                               |
| Odor                                         | : Characteristic.                                                      |
| Odor threshold                               | : Not available.                                                       |
| pH                                           | : 10.5 to 11.8 [25°C]                                                  |
| Melting point/freezing point                 | : Not available.                                                       |
| Initial boiling point and boiling range      | : Not available.                                                       |
| Flash point                                  | : Closed cup: 18.6°C [Flammable.]                                      |
| Evaporation rate                             | : Not available.                                                       |
| Flammability (solid, gas)                    | : Not available.                                                       |
| Burning time                                 | : Not applicable.                                                      |
| Burning rate                                 | : Not applicable.                                                      |
| Upper/lower flammability or explosive limits | : Not available.                                                       |
| Vapor pressure                               | : Not available.                                                       |
| Vapor density                                | : Not available.                                                       |
| Density                                      | : 0.8667 to 0.8697 g/cm <sup>3</sup> [25°C]                            |
| Bulk density                                 | : 7.1 to 7.5 lbs/gal                                                   |
| Solubility(ies)                              | : Easily soluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/water       | : Not available.                                                       |
| Decomposition temperature                    | : Not available.                                                       |
| Viscosity                                    | : Not available.                                                       |
| Explosive properties                         | : Not available.                                                       |
| Oxidizing properties                         | : Not available.                                                       |
| Corrosivity Remarks                          | : Not available.                                                       |

### 9.2 Other information

#### Aerosol product

|                    |              |
|--------------------|--------------|
| Type of aerosol    | : Spray      |
| Heat of combustion | : 17.99 kJ/g |
| Ignition distance  | : <45.72 cm  |

No additional information.

**SECTION 10: STABILITY AND REACTIVITY**

|                                                |                                                                                                        |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.           |
| <b>10.2 Chemical stability</b>                 | : The product is stable.                                                                               |
| <b>10.3 Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| <b>10.4 Conditions to avoid</b>                | : Avoid all possible sources of ignition (spark or flame).                                             |
| <b>10.5 Incompatible materials</b>             | : No specific data.                                                                                    |
| <b>10.6 Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| <b>Instability Conditions</b>                  | : Not available.                                                                                       |
| <b>Instability temperature</b>                 | : Not available.                                                                                       |

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result                | Species | Dose                     | Exposure |
|-------------------------|-----------------------|---------|--------------------------|----------|
| Butane<br>ethanol       | LC50 Inhalation Vapor | Rat     | 658000 mg/m <sup>3</sup> | 4 hours  |
|                         | LC50 Inhalation Vapor | Rat     | 124700 mg/m <sup>3</sup> | 4 hours  |
|                         | LD50 Oral             | Rat     | 7 g/kg                   | -        |

#### Acute toxicity estimates

Not available.

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure                           | Observation |
|-------------------------|--------------------------|---------|-------|------------------------------------|-------------|
| ethanol                 | Eyes - Moderate irritant | Rabbit  | -     | 0.066666667 minutes 100 milligrams | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams            | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 100 microliters                    | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 500 milligrams                     | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 400 milligrams                     | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 milligrams             | -           |

**Skin** : Slightly irritating to the skin.

**Eyes** : Moderately irritating to eyes.

#### Sensitization

No known effect according to our database.

#### Mutagenicity

No known effect according to our database.

#### Carcinogenicity

No known effect according to our database.

#### Reproductive toxicity

No known effect according to our database.

#### Teratogenicity

No known effect according to our database.

#### Specific target organ toxicity (single exposure)

No known effect according to our database.

#### Specific target organ toxicity (repeated exposure)

No known effect according to our database.

#### Aspiration hazard

No known effect according to our database.

#### Potential acute health effects

**Eye contact** : Moderately irritating to eyes.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Slightly irritating to the skin.

**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

|                     |                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : Adverse symptoms may include the following:<br>irritation<br>redness                    |
| <b>Inhalation</b>   | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing |
| <b>Skin contact</b> | : No specific data.                                                                       |
| <b>Ingestion</b>    | : No specific data.                                                                       |

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Long term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Potential chronic health effects

Not available.

|                              |                                                     |
|------------------------------|-----------------------------------------------------|
| <b>Conclusion/Summary</b>    | : Not available.                                    |
| <b>General</b>               | : No known significant effects or critical hazards. |
| <b>Carcinogenicity</b>       | : No known significant effects or critical hazards. |
| <b>Mutagenicity</b>          | : No known significant effects or critical hazards. |
| <b>Teratogenicity</b>        | : No known significant effects or critical hazards. |
| <b>Developmental effects</b> | : No known significant effects or critical hazards. |
| <b>Fertility effects</b>     | : No known significant effects or critical hazards. |
| <b>Other information</b>     | : Not available.                                    |

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

| Product/ingredient name | Result                               | Species                                    | Exposure |
|-------------------------|--------------------------------------|--------------------------------------------|----------|
| ethanol                 | Acute EC50 17.921 mg/l Marine water  | Algae - Ulva pertusa                       | 96 hours |
|                         | Acute EC50 2000 µg/l Fresh water     | Daphnia - Daphnia magna                    | 48 hours |
|                         | Acute LC50 25500 µg/l Marine water   | Crustaceans - Artemia franciscana - Larvae | 48 hours |
|                         | Acute LC50 42000 µg/l Fresh water    | Fish - Oncorhynchus mykiss                 | 4 days   |
|                         | Chronic NOEC 4.995 mg/l Marine water | Algae - Ulva pertusa                       | 96 hours |
|                         | Chronic NOEC 0.375 µl/L Fresh water  | Fish - Gambusia holbrooki - Larvae         | 12 weeks |

### 12.2 Persistence and degradability

No known effect according to our database.

**Conclusion/Summary** : The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### 12.3 Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| ethanol                 | -0.35              | -   | low       |
| Butane                  | 2.89               | -   | low       |
| propane                 | 2.36               | -   | low       |

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

## SECTION 14: TRANSPORT INFORMATION

|                                 | ADR/RID                                                                                                             | ADN                                                                                      | IMDG                                                                                                         | IATA                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14.1 UN number                  | UN1950                                                                                                              | UN1950                                                                                   | UN1950                                                                                                       | UN1950                                                                                                                                                                                                                                                                                                                                                      |
| 14.2 UN proper shipping name    | Aerosols, flammable                                                                                                 | Aerosols, flammable                                                                      | AEROSOLS                                                                                                     | Aerosols, flammable                                                                                                                                                                                                                                                                                                                                         |
| 14.3 Transport hazard class(es) | 2.1<br>                            | 2.1<br> | 2.1<br>                    | 2.1<br>                                                                                                                                                                                                                                                                  |
| 14.4 Packing group              | -                                                                                                                   | -                                                                                        | -                                                                                                            | -                                                                                                                                                                                                                                                                                                                                                           |
| 14.5 Environmental hazards      | No.                                                                                                                 | No.                                                                                      | No.                                                                                                          | No.                                                                                                                                                                                                                                                                                                                                                         |
| Additional information          | <b>Limited quantity</b><br>1 L<br><br><b>Special provisions</b><br>190 327 625 344<br><br><b>Tunnel code</b><br>(D) | <b>Special provisions</b><br>190 327 625 344                                             | <b>Emergency schedules (EmS)</b><br>F-D, S-U<br><br><b>Special provisions</b><br>63, 190, 277, 327, 959, 344 | <b>Passenger and Cargo Aircraft</b><br>Quantity limitation: 75 kg<br>Packaging instructions: 203<br><b>Cargo Aircraft Only</b><br>Quantity limitation: 150 kg<br>Packaging instructions: 203<br><b>Limited Quantities - Passenger Aircraft</b><br>Quantity limitation: 30 kg<br>Packaging instructions: Y203<br><br><b>Special provisions</b><br>A145, A167 |

For long distance transport of bulk material or shrunk pallet take into consideration sections 7 and 10.

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## SECTION 15: REGULATORY INFORMATION

Chemical Safety Assessment following regulation 1907/2006/EC: Not relevant.

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

**Annex XVII - Restrictions** : Not applicable.

on the manufacture,  
placing on the market  
and use of certain  
dangerous substances,  
mixtures and articles

**Europe inventory** : All components are listed or exempted.

**Integrated pollution** : Not listed

prevention and control  
list (IPPC) - Air

**Integrated pollution** : Not listed

prevention and control  
list (IPPC) - Water

#### CMR Substances

None of the components are listed.

**Aerosol dispensers** :

3



Flammable

**Storage code** : 2B

**Storage code Reference:** : TRGS 510 - Storage of hazardous substances in nonstationary containers

**Hazard class for water** : 1 Appendix No. 4

**WGK: Notes** : - for bulk material, not applicable for product in domestic pack sizes. Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes (VwVwS)

## SECTION 16: OTHER INFORMATION

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number

**Key literature references and sources for data** : Not available.

### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Aerosol 2, H223, H229

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification              | Justification         |
|-----------------------------|-----------------------|
| Flam. Aerosol 2, H223, H229 | On basis of test data |

### Europe

**Full text of abbreviated H statements** : H220 Extremely flammable gas.  
H223, Flammable aerosol. Pressurized container: may burst if heated.  
H229  
H225 Highly flammable liquid and vapor.  
H280 Contains gas under pressure; may explode if heated.

**Full text of classifications [CLP/GHS]** : Aerosol 2, H223, H229 AEROSOLS - Category 2  
Flam. Gas 1, H220 FLAMMABLE GASES - Category 1  
Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2  
Press. Gas Comp. Gas, GASES UNDER PRESSURE - Compressed gas  
H280

**Full text of abbreviated R phrases** : R12- Extremely flammable.  
R11- Highly flammable.

**Full text of classifications [DSD/DPD]** : F+ - Extremely flammable  
F - Highly flammable

This document complements the technical usage instructions but does not replace them. The information contained herein is based on our best current knowledge of the product concerned, and is given in good faith. The attention of recipients is drawn to (amongst other things) the element of risk consequent to use of the product other than that for which it was intended.

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