# SAFETY DATA SHEET

Dettol All In One Disinfectant Spray

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

### 1.1 Product identifier

**Product name** : Dettol All In One Disinfectant Spray

**SDS no.** : PSDS9800021

**Formulation #** : FRM3161235

**Product type** : Aerosol.

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

| Identified uses |
|---|
| Surface cleaners (liquid, powder, gel neat, spray neat) for consumer use |

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

**Supplier**

**The United Kingdom:**
RB UK Hygiene Home Commercial Ltd
Wellcroft House
Wellcroft Road
Slough, Berkshire
SL1 4AQ
Tel: 0800 376 8181
Email: ConsumerCare_UK@reckitt.com

**The Republic Of Ireland:**
RB Ireland Hygiene Home Commercial Ltd
7 Riverwalk
Citywest Business Campus
Dublin 24
Ireland
Tel: 01 661 7318
Email: ConsumerHealth_IE@reckitt.com

### 1.4 Emergency telephone number

**National advisory body/Poison Centre**

**Telephone number** : **GB** - NHS 111/NHS 24 Tel: 111
**NI** - www.gpoutofhours.hscni.net/
**IE** - Poisons Information Centre of Ireland: 01 809 2166 8am-10pm 7 days a week

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Aerosol 1, H222, H229
Eye Irrit. 2, H319

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

## SECTION 2: Hazards identification

### 2.2 Label elements

**Hazard pictograms** :

**Signal word** : Danger

**Hazard statements** : Extremely flammable aerosol. Pressurised container: may burst if heated. Causes serious eye irritation.

**Precautionary statements**

**General** : 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. Wash hands thoroughly after handling. Do not pierce or burn, even after use.

**Response** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** : Not applicable.

**Supplemental label elements** : **Ingredient Declaration:**
Per 100 g product contains 58.0g ethanol and 0.10g Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, salts with 1,2-benzisothiazol-3(2H)-one 1,1-dioxide (1:1) **OR** C12-C18-Alkyldimethylbenzyl ammonium saccharinate
Disinfectant
Perfume
Contains Hexyl cinnamal, Limonene

**Special packaging requirements**

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

## SECTION 3: Composition/information on ingredients

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|---|---|---|---|---|---|
| ALCOHOL | REACH #: 01-2119457610-43<br>EC: 200-578-6<br>CAS: 64-17-5<br>Index: 603-002-00-5 | ≥50 - ≤75 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319 | Eye Irrit. 2, H319: C ≥ 50% | [1] [2] |
| BUTANE | REACH #: 01-2119474691-32<br>EC: 203-448-7<br>CAS: 106-97-8<br>Index: 601-004-00-0 | ≥5 - ≤10 | Flam. Gas 1A, H220<br>Press. Gas (Comp.), H280 | - | [2] |
| METHYL ALCOHOL | REACH #: 01-2119433307-44<br>EC: 200-659-6<br>CAS: 67-56-1<br>Index: 603-001-00-X | ≥1 - <3 | Flam. Liq. 2, H225<br>Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Acute Tox. 3, H331<br>STOT SE 1, H370 | ATE [Oral] = 100 mg/kg<br>ATE [Dermal] = 300 mg/kg<br>ATE [Inhalation (vapours)] = 3 mg/l<br>STOT SE 1, H370: C ≥ 10%<br>STOT SE 2, H371: 3% ≤ C < 10% | [1] [2] |
| PROPANE | REACH #: 01-2119486944-21<br>EC: 200-827-9<br>CAS: 74-98-6<br>Index: 601-003-00-5 | ≥1 - ≤3 | Flam. Gas 1A, H220<br>Press. Gas (Comp.), H280 | - | [2] |
| SODIUM LAUROYL SARCOSINATE | REACH #: 01-2119527780-39<br>EC: 205-281-5<br>CAS: 137-16-6 | ≤0.3 | Acute Tox. 2, H330<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318 | ATE [Inhalation (dusts and mists)] = 0.05 mg/l<br>Skin Irrit. 2, H315: C ≥ 30%<br>Eye Dam. 1, H318: C ≥ 30%<br>Eye Irrit. 2, H319: 1% ≤ C < 30% | [1] |
| D-LIMONENE | REACH #: 01-2119529223-47<br>EC: 227-813-5<br>CAS: 5989-27-5<br>Index: 601-096-00-2 | ≤0.3 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 3, H412 | M [Acute] = 1 | [1] |
| BENZALKONIUM SACCHARINATE | EC: 273-545-7<br>CAS: 68989-01-5 | <0.25 | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>**See Section 16 for the full text of the H statements declared above.** | ATE [Oral] = 500 mg/kg<br>M [Acute] = 1<br>M [Chronic] = 1 | [1] |

## SECTION 3: Composition/information on ingredients

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, vPvBs or Substances of equivalent concern, 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

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Eye contact** : 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.

**Inhalation** : 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.

**Skin contact** : 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.

**Ingestion** : Wash out mouth with water. Remove dentures if any. 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.

**Protection of first-aiders** : 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

**Over-exposure signs/symptoms**

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing

**Skin contact** : No specific data.

**Ingestion** : No specific data.

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : 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** : Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. 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.

**Hazardous combustion 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 pressurised 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour 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 spilt 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 material 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.

## SECTION 6: Accidental release measures

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the 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 spilt 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

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Pressurised container: protect from sunlight and do not expose to temperature 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 vapour 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.

**Advice on general occupational hygiene** : 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

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. See Section 10 for incompatible materials before handling or use.

**Seveso Directive - Reporting thresholds (in tonnes)**

**Danger criteria**

| Category | Notification and MAPP threshold | Safety report threshold |
|---|---|---|
| P3a | 150 | 500 |

### 7.3 Specific end use(s)

**Recommendations** : Surface cleaners (liquid, powder, gel neat, spray neat) for consumer use

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

#### Biological exposure indices

No exposure indices known.

**Recommended monitoring procedures** : 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.

#### DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|---|---|---|---|---|---|
| ALCOHOL | DNEL | Short term Inhalation | 1900 mg/m³ | Workers | Local |
| | DNEL | Long term Oral | 87 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 114 mg/m³ | General population | Systemic |
| | DNEL | Long term Dermal | 206 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 343 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 950 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 950 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 1900 mg/m³ | Workers | Local |
| METHYL ALCOHOL | DNEL | Long term Inhalation | 260 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 40 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 50 mg/m³ | General population [Consumers] | Systemic |
| | DNEL | Long term Dermal | 8 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 8 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Short term Oral | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Oral | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 20 mg/kg | Workers | Systemic |

## SECTION 8: Exposure controls/personal protection

| | | | | | |
|---|---|---|---|---|---|
| | | | bw/day | | |
| | DNEL | Long term Dermal | 20 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 26 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 26 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 26 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 26 mg/m³ | General population | Systemic |
| | DNEL | Short term Inhalation | 130 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 130 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 130 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 130 mg/m³ | Workers | Systemic |
| SODIUM LAUROYL SARCOSINATE | DNEL | Long term Inhalation | 70.53 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 20 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 17.39 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Dermal | 10 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 10 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 10 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 10 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 17.39 mg/m³ | General population | Systemic |
| | DNEL | Long term Dermal | 20 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 70.53 mg/m³ | Workers | Systemic |
| D-LIMONENE | DNEL | Long term Inhalation | 66.7 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 9.5 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 16.6 mg/m³ | General population [Consumers] | Systemic |
| | DNEL | Long term Dermal | 4.8 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 4.8 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 4.8 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 4.8 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 9.5 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 16.6 mg/m³ | General population | Systemic |

## SECTION 8: Exposure controls/personal protection

| | | | | | |
|---|---|---|---|---|---|
| | DNEL | Long term Inhalation | 66.7 mg/m³ | Workers | Systemic |

**PNECs**

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|---|---|---|---|
| ALCOHOL | Fresh water | 0.96 mg/l | Assessment Factors |
| | Marine water | 0.79 mg/l | Assessment Factors |
| | Sewage Treatment Plant | 580 mg/l | Assessment Factors |
| | Fresh water sediment | 3.6 mg/kg dwt | Equilibrium Partitioning |
| | Marine water sediment | 2.9 mg/kg dwt | Equilibrium Partitioning |
| METHYL ALCOHOL | Fresh water | 20.8 mg/l | Assessment Factors |
| | Marine water | 2.08 mg/l | Assessment Factors |
| | Sewage Treatment Plant | 100 mg/l | Assessment Factors |
| | Fresh water sediment | 77 mg/kg dwt | Equilibrium Partitioning |
| | Marine water sediment | 7.7 mg/kg dwt | Equilibrium Partitioning |
| | Soil | 100 mg/kg dwt | Equilibrium Partitioning |
| SODIUM LAUROYL SARCOSINATE | Fresh water | 0.03 mg/l | Assessment Factors |
| | Marine water | 0.003 mg/l | Assessment Factors |
| | Sewage Treatment Plant | 10 mg/l | Assessment Factors |
| | Fresh water sediment | 0.034 mg/l | Equilibrium Partitioning |
| | Marine water sediment | 0.003 mg/l | Equilibrium Partitioning |
| | Soil | 0.012 mg/kg dwt | Equilibrium Partitioning |
| D-LIMONENE | Fresh water | 14 µg/l | Assessment Factors |
| | Marine water | 1.4 µg/l | Assessment Factors |
| | Sewage Treatment Plant | 1.8 mg/l | Assessment Factors |
| | Fresh water sediment | 3.85 mg/kg dwt | Equilibrium Partitioning |
| | Marine water sediment | 0.385 mg/kg dwt | Equilibrium Partitioning |
| | Soil | 0.763 mg/kg | Equilibrium Partitioning |
| BHT | Fresh water | 0.199 µg/l | Assessment Factors |
| | Marine water | 0.02 µg/l | Assessment Factors |
| | Soil | 47.69 µg/kg wwt | Equilibrium Partitioning |

### 8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour 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, vapour 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: chemical splash goggles.

**Skin protection**

## SECTION 8: Exposure controls/personal protection

**Hand protection** : EN 16523-1:2015
Tested for protection against chemical permeation.
Low chemical resistant or waterproof gloves.
(EN 16523-1:2015 supersedes EN 374-3:2003)
EN 374-2:2003
Tested for protection against liquid penetration and micro-organisms.
EN 388:2003
Tested for protection against mechanical risks (abrasion, blade cut resistance, tear resistance and puncture resistance).
ISO 374-1:2016/Type A
Protective glove with permeation resistance of at least 30 minutes each for at least 6 test chemicals.
ISO 374-1:2016/Type B
Protective glove with permeation resistance of at least 30 minutes each for at least 3 test chemicals.
ISO 374-1:2016/Type C
Protective glove with permeation resistance of at least 10 minutes for at least 1 test chemical. 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.

**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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

**Appearance**

**Physical state** : Liquid. [Aerosol.]

**Colour** : Colourless to light yellow.

**Odour** : Fragrant.

**Melting point/freezing point** : Not relevant/applicable due to nature of the product.

**Initial boiling point and boiling range** : Not relevant/applicable due to nature of the product.

**Flammability (solid, gas)** : Not relevant/applicable due to nature of the product.

**Upper/lower flammability or explosive limits** : Not relevant/applicable due to nature of the product.

**Flash point** : Closed cup: <0°C (<32°F)

**Auto-ignition temperature** : Not relevant/applicable due to nature of the product.

## SECTION 9: Physical and chemical properties

**Decomposition temperature** : Not relevant/applicable due to nature of the product.

**pH** : 10.4 to 11.8 [Conc. (% w/w): 100%]

**Viscosity** : Not relevant/applicable due to nature of the product.

**Solubility** :

| Media | Result |
|---|---|
| cold water | Easily soluble |
| hot water | Easily soluble |

**Partition coefficient n-octanol/water (log Pow)** : Not relevant/applicable due to nature of the product.

**Vapour pressure** : Not relevant/applicable due to nature of the product.

**Relative density** : 0.87 to 0.89

**Density** : 0.87 to 0.89 g/cm³

**Vapour density** : Not relevant/applicable due to nature of the product.

**Particle characteristics**

**Median particle size** : Not relevant/applicable due to nature of the product.

### 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

**Heat of combustion** : 18.02 kJ/g

**Aerosol product**

**Type of aerosol** : Spray

#### 9.2.2 Other safety characteristics

Not applicable.

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).

**10.5 Incompatible materials** : No specific data.

**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity**

## SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| Dettol Disinfectant Spray_FRM3161235_PSDS9800021 (EU) | LC50 Inhalation Vapour | Rat - Male, Female | >2.75 mg/l | 4 hours |
| | LD50 Dermal | Rat - Male | >5050 mg/kg | - |
| | LD50 Oral | Rat - Female | >5050 mg/kg | - |
| ALCOHOL | LC50 Inhalation Vapour | Rat | 124700 mg/m³ | 4 hours |
| | LD50 Oral | Rat | 7 g/kg | - |
| BUTANE | LC50 Inhalation Vapour | Rat | 658000 mg/m³ | 4 hours |
| METHYL ALCOHOL | LC50 Inhalation Gas. | Rat | 145000 ppm | 1 hours |
| | LC50 Inhalation Gas. | Rat | 64000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 15800 mg/kg | - |
| | LD50 Oral | Rat | 5600 mg/kg | - |
| SODIUM LAUROYL SARCOSINATE | LC50 Inhalation Dusts and mists | Rat | 0.05 mg/l | 4 hours |
| D-LIMONENE | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 4400 mg/kg | - |

**Conclusion/Summary** :

**Acute toxicity estimates**

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|---|---|---|---|---|
| Dettol Disinfectant Spray_FRM3161235_PSDS9800021 (EU) | N/A | N/A | N/A | 160.8 | 17.3 |
| ALCOHOL | 7000 | N/A | N/A | 124.7 | N/A |
| BUTANE | N/A | N/A | N/A | 658 | N/A |
| METHYL ALCOHOL | 100 | 300 | 64000 | 3 | N/A |
| SODIUM LAUROYL SARCOSINATE | N/A | N/A | N/A | N/A | 0.05 |
| D-LIMONENE | 4400 | N/A | N/A | N/A | N/A |
| BENZALKONIUM SACCHARINATE | 500 | N/A | N/A | N/A | N/A |

**Irritation/Corrosion**

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| Dettol Disinfectant Spray_FRM3161235_PSDS9800021 (EU) | Eyes - Mild irritant | Rabbit | - | minutes | 21 days |
| | Skin - Primary dermal irritation index (PDII) | Rabbit | 0.1 | - | 21 days |
| ALCOHOL | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Eyes - Moderate irritant | Rabbit | - | 0.066666667 minutes 100 mg | - |
| | Eyes - Moderate irritant | Rabbit | - | 100 uL | - |
| | Skin - Mild irritant | Rabbit | - | 400 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 mg | - |
| D-LIMONENE | Skin - Mild irritant | Rabbit | - | 24 hours 10 % | - |

**Conclusion/Summary**

**Skin** :

**Eyes** :

**Respiratory** :

**Respiratory or skin sensitization**

## SECTION 11: Toxicological information

| Product/ingredient name | Route of exposure | Species | Result |
|---|---|---|---|
| Dettol Disinfectant Spray_FRM3161235_PSDS9800021 (EU) | skin | Guinea pig | Not sensitizing |

**Conclusion/Summary**

**Skin** :

**Respiratory** :

**Mutagenicity**

**Conclusion/Summary** :

**Carcinogenicity**

**Conclusion/Summary** :

**Reproductive toxicity**

**Conclusion/Summary** :

**Teratogenicity**

**Conclusion/Summary** :

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

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| METHYL ALCOHOL | Category 1 | - | - |

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

Not available.

**Aspiration hazard**

| Product/ingredient name | Result |
|---|---|
| D-LIMONENE | ASPIRATION HAZARD - Category 1 |

**Information on likely routes of exposure** : Not available.

**Potential acute health effects**

**Eye contact** : Causes serious eye irritation.

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

**Skin contact** : No known significant effects or critical hazards.

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

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

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing

**Skin contact** : No specific data.

**Ingestion** : No specific data.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Short term exposure**

**Potential immediate effects** : Not available.

## SECTION 11: Toxicological information

**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

Not available.

**Conclusion/Summary** :

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

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

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

**Reproductive toxicity** : No known significant effects or critical hazards.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

#### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| ALCOHOL | Acute EC50 3306 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Acute EC50 1074 mg/l Fresh water | Crustaceans - Cypris subglobosa | 48 hours |
| | Acute LC50 5680 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 11000000 µg/l Marine water | Fish - Alburnus alburnus | 96 hours |
| | Chronic NOEC 4.995 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Chronic NOEC 100 ul/L Fresh water | Daphnia - Daphnia magna - Neonate | 21 days |
| METHYL ALCOHOL | Acute EC50 16.912 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Acute LC50 2500000 µg/l Marine water | Crustaceans - Crangon crangon - Adult | 48 hours |
| | Acute LC50 3289 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 290 mg/l Fresh water | Fish - Danio rerio - Egg | 96 hours |
| | Chronic NOEC 9.96 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| D-LIMONENE | Acute EC50 421 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute EC50 688 µg/l Fresh water | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### 12.2 Persistence and degradability

**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.

## SECTION 12: Ecological information

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| ALCOHOL | - | - | Readily |

### 12.3 Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| ALCOHOL | -0.35 | - | Low |
| BUTANE | 2.89 | - | Low |
| METHYL ALCOHOL | -0.77 | <10 | Low |
| PROPANE | 1.09 | - | Low |
| D-LIMONENE | 4.38 | - | High |

### 12.4 Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

### 12.7 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 minimised 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** : The classification of the product may meet the criteria for a hazardous waste.

**Packaging**

**Methods of disposal** : The generation of waste should be avoided or minimised 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

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

| | ADR/RID | ADN | IMDG | IATA |
|---|---|---|---|---|
| **14.1 UN number or ID number** | UN1950 | UN1950 | UN1950 | UN1950 |
| **14.2 UN proper shipping name** | AEROSOLS | AEROSOLS | AEROSOLS | Aerosols, flammable |
| **14.3 Transport hazard class(es)** | 2  | 2  | 2.1  | 2.1  |
| **14.4 Packing group** | - | - | - | - |
| **14.5 Environmental hazards** | No. | No. | No. | No. |

**Additional information**

**ADR/RID** : **Limited quantity** 1 L
**Special provisions** 190, 327, 625, 344
**Tunnel code** (D)

**ADN** : **Special provisions** 190, 327, 625, 344

**IMDG** : **Emergency schedules** F-D, S-U
**Special provisions** 63, 190, 277, 327, 344, 381, 959

**IATA** : **Quantity limitation** Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y203.
**Special provisions** A145, A167, A802

**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 Maritime transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

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

**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorisation**

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

No listed substance

**Labelling** : None

**Other EU regulations**

**Explosive precursors** :

## SECTION 15: Regulatory information

### Ozone depleting substances (1005/2009/EU)

Not listed.

### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

### Persistent Organic Pollutants

Not listed.

**Aerosol dispensers** :

3

Extremely flammable

### Seveso Directive

This product is controlled under the Seveso Directive.

### Danger criteria

| Category |
|---|
| P3a |

**15.2 Chemical safety assessment** : No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

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

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

| Classification | Justification |
|---|---|
| Aerosol 1, H222, H229<br>Eye Irrit. 2, H319 | On basis of test data<br>On basis of test data |

### Full text of abbreviated H statements

| | |
|---|---|
| H220 | Extremely flammable gas. |
| H222, H229 | Extremely flammable aerosol. Pressurised container: may burst if heated. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H280 | Contains gas under pressure; may explode if heated. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |

## SECTION 16: Other information

| | |
|---|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H370 | Causes damage to organs. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

**Full text of classifications [CLP/GHS]**

| | |
|---|---|
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 |
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aerosol 1 | AEROSOLS - Category 1 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Gas 1A | FLAMMABLE GASES - Category 1A |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Press. Gas (Comp.) | GASES UNDER PRESSURE - Compressed gas |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1B | SKIN SENSITISATION - Category 1B |
| STOT SE 1 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1 |

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