

# SAFETY DATA SHEET

**ECOLAB®**

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II (453/2010) - Europe

## CHLORHEXIDINE 2 PERCENT

Version : 1

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

#### 1.1 Product identifier

**Product name** : CHLORHEXIDINE 2 PERCENT  
**Product code** : 114719E  
**Product use** : Skin antiseptic  
**Product is for professional use only**

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

| Identified uses   |
|-------------------|
| Skin disinfectant |

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

**Manufacturer/ Distributor/ Importer** : Ecolab Ltd.  
David Murray John Building  
UK-SN1 1NH Swindon, Wiltshire  
England  
Tel +44 (0)1793 511221  
Fax +44 (0)1793 618552  
CCS@ecolab.com

#### 1.4 Emergency telephone number

##### National advisory body/Poison Centre

**Telephone number** : 0870 600 6266 (This service is only available to health professionals)

##### Manufacturer/ Distributor/ Importer

**Telephone number** : 01793 511221

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

##### Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : F; R11  
Xi; R36  
R67

**Physical/chemical hazards** : Highly flammable.


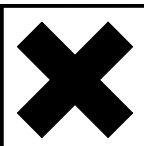
**Human health hazards** : Irritating to eyes. Vapours may cause drowsiness and dizziness.

**Environmental hazards** : Not applicable.

See section 16 for the full text of the R-phrases declared above

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

#### 2.2 Label elements

**Hazard symbol or symbols** :  

**Indication of danger** : Highly flammable, Irritant

**Hazardous ingredients** : Propan-2-ol

**Date of issue/Date of revision** : 11 May 2011

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## CHLORHEXIDINE 2 PERCENT

### SECTION 2: Hazards identification

|                       |  |
|-----------------------|--|
| <b>Risk phrases</b>   | : R11- Highly flammable.<br>R36- Irritating to eyes.<br>R67- Vapours may cause drowsiness and dizziness.   |
| <b>Safety phrases</b> | : S2- Keep out of the reach of children.<br>S16- Keep away from sources of ignition - No smoking.<br>S23- Do not breathe vapour.<br>S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |

#### 2.3 Other hazards

**Other hazards which do not result in classification** : Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

| Product/ingredient name   | Identifiers   | %     | Classification   |  | Type    |
|---|---|-------|--|--|---------|
|   |   |       | 67/548/EEC   | Regulation (EC) No. 1272/2008 [CLP]  |         |
| Propan-2-ol   | RRN: 01-2119457558-25<br>EC: 200-661-7<br>CAS: 67-63-0<br>Index: 603-117-00-0 | 50-75 | F; R11<br><br>Xi; R36<br>R67   | Flam. Liq. 2, H225<br><br>Eye Irrit. 2, H319<br>STOT SE 3, H336  | [1] [2] |
| D-gluconic acid, compound with N,N'-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | EC: 242-354-0<br>CAS: 18472-51-0  | 1-5   | Xi; R41<br>N; R50<br><br><b>See section 16 for the full text of the R-phrases declared above</b> | Eye Dam. 1, H318<br>Aquatic Acute 1, H400<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | [1]     |

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 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. 1207/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1207/2006, Annex XIII

### 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 adverse health effects persist or are severe. |
| <b>Inhalation</b>  | :   |

**SECTION 4: First aid measures**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

- 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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****Potential acute health effects**

- Eye contact** : Irritating to eyes.
- Inhalation** : Vapours may cause drowsiness and dizziness. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

- Eye contact** : Adverse symptoms may include the following:  
irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo
- Skin contact** : No specific data.
- Ingestion** : No specific data.

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed.
- Specific treatments** : No specific treatment.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

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

**Hazards from the substance or mixture** : Highly flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds

**5.3 Advice for firefighters**

**Special precautions 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 proper protective equipment.

**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. 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 Section 8 for additional information on hygiene measures.

**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 materials for containment and cleaning up**

**Small spill:** : Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment.

**Large spill** : Prevent entry into sewers, water courses, basements or confined areas. 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 (see section 13). Use spark-proof tools and explosion-proof equipment.

**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). Do not ingest. Avoid contact with eyes. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- 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**

- : Store between the following temperatures: 0 to 25°C (32 to 77°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected 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. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**7.3 Specific end use(s)**

- Recommendations** : Not applicable.  
**Industrial sector specific solutions** : Not applicable.

**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   |
|-------------------------|---|
| Propan-2-ol             | <b>EH40/2005 WELs (United Kingdom (UK), 8/2007).</b><br>STEL: 1250 mg/m <sup>3</sup> 15 minute(s).<br>STEL: 500 ppm 15 minute(s).<br>TWA: 999 mg/m <sup>3</sup> 8 hour(s).<br>TWA: 400 ppm 8 hour(s). |

- 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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

**Derived effect levels**

**SECTION 8: Exposure controls/personal protection**

No DELs available.

**Predicted effect concentrations**

No PECs available.

**8.2 Exposure controls**

**Appropriate engineering controls** : Use only with adequate ventilation. 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 (EN 166)** : Safety glasses.

**Skin protection**

**Hand protection (EN 374)** : No special recommendations.

**Body protection (EN 14605)** : 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.

**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 (EN 143, 14387)** : A respirator is not needed under normal and intended conditions of product 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****9.1 Information on basic physical and chemical properties****Appearance**

**Physical state** : Liquid.  
**Colour** : pink  
**Odour** : Alcohol-like  
**Odour threshold** : Not applicable and/or not determined for the mixture.  
**pH** : 7 [Conc. (% w/w): 100%]  
**Melting point/freezing point** : Not applicable and/or not determined for the mixture.  
**Initial boiling point and boiling range** : Not applicable and/or not determined for the mixture.  
**Flash point** : 20 °C (Closed cup)  
**Evaporation rate** : Not applicable and/or not determined for the mixture.  
**Flammability (solid, gas)** : Not applicable and/or not determined for the mixture.  
**Burning time** : Not applicable and/or not determined for the mixture.  
**Burning rate** : Not applicable and/or not determined for the mixture.  
**Upper/lower flammability or explosive limits** : Not applicable and/or not determined for the mixture.

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### SECTION 9: Physical and chemical properties

|  |  |
|--|--|
| Vapour pressure                        | : Not applicable and/or not determined for the mixture.  |
| Vapour density                         | : Not applicable and/or not determined for the mixture.  |
| Relative density                       | : 0.88   |
| Solubility(ies)                        | : Easily soluble in the following materials: cold water. |
| Partition coefficient: n-octanol/water | : Not applicable and/or not determined for the mixture.  |
| Auto-ignition temperature              | : Not applicable and/or not determined for the mixture.  |
| Decomposition temperature              | : Not applicable and/or not determined for the mixture.  |
| Viscosity                              | : Not applicable and/or not determined for the mixture.  |
| Explosive properties                   | : Not applicable.  |
| Oxidising properties                   | : None.  |

#### 9.2 Other information

No additional information.

### 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). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

**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 toxicological effects

##### Acute toxicity

| Product/ingredient name   | Result    | Species | Dose       | Exposure |
|---|-----------|---------|------------|----------|
| Propan-2-ol   | LD50 Oral | Rat     | 5000 mg/kg | -        |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | LD50 Oral | Rat     | 2 g/kg     | -        |
|   | LD50 Oral | Rat     | 2040 mg/kg | -        |

**Conclusion/Summary** : Not determined for the mixture.

##### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|----------|-------------|
| Propan-2-ol             | Eyes - Moderate irritant | Rabbit  | -     | -        | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | -        | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | -        | -           |

**Conclusion/Summary** : Not determined for the mixture.

##### Sensitiser

Date of issue/Date of revision : 11 May 2011

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**SECTION 11: Toxicological information**

**Conclusion/Summary** : Not determined for the mixture.

**Mutagenicity**

**Conclusion/Summary** : Not determined for the mixture.

**Carcinogenicity**

**Conclusion/Summary** : Not determined for the mixture.

**Reproductive toxicity**

**Conclusion/Summary** : Not determined for the mixture.

**Teratogenicity**

**Conclusion/Summary** : Not determined for the mixture.

**Information on the likely routes of exposure** : Not determined for the mixture.

**Potential acute health effects**

**Inhalation** : Vapours may cause drowsiness and dizziness. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

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

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

**Eye contact** : Irritating to eyes.

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

**Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo

**Ingestion** : No specific data.

**Skin contact** : No specific data.

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

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

**Short term exposure**

**Potential immediate effects** : Not determined for the mixture.

**Potential delayed effects** : Not determined for the mixture.

**Long term exposure**

**Potential immediate effects** : Not determined for the mixture.

**Potential delayed effects** : Not determined for the mixture.

**Potential chronic health effects**

**Conclusion/Summary** : Not determined for the mixture.

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

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

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

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

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

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

**Other information** : Not determined for the mixture.



**SECTION 12: Ecological information****12.1 Toxicity**

| Product/ingredient name  | Result                      | Species | Exposure |
|--|-----------------------------|---------|----------|
| Propan-2-ol<br><br>D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | Acute EC50 10000 mg/L       | Fish    | 48 hours |
|  | Acute LC50 >1400 mg/L       | Fish    | 96 hours |
|  | Acute LC50 6550 mg/L        | Fish    | 96 hours |
|  | Acute LC50 9640 mg/L        | Fish    | 96 hours |
|  | Acute LC50 10400 mg/L       | Fish    | 96 hours |
|  | Acute LC50 11130 mg/L       | Fish    | 96 hours |
|  | Acute EC50 0.05 to 0.1 mg/L | Daphnia | 48 hours |
|  | Acute IC50 0.011 mg/L       | Algae   | 72 hours |
|  | Acute LC50 10.4 mg/L        | Fish    | 96 hours |

**Conclusion/Summary** : Not determined for the mixture.

**12.2 Persistence and degradability**

**Conclusion/Summary** : The ecological evaluation of the product is based on data from the raw material and/or comparable substances. The total of the organic components contained in the product achieve > 60% BOD/COD or CO<sub>2</sub> liberation, or > 70% DOC reduction in tests for ease of degradability - threshold values for 'readily degradable' (e.g. to OECD method 301).

**12.3 Bioaccumulative potential**

**Conclusion/Summary** : Not determined for the mixture.

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not determined for the mixture.

**Mobility** : Not determined for the mixture.

**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 minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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### SECTION 13: Disposal considerations

Hazardous waste : Yes.

#### European waste catalogue (EWC)





| Waste code | Waste designation |
|------------|-------------------|
| 20 01 13*  | solvents          |

#### 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### SECTION 14: Transport information

|                                   | ADR/RID  | ADN/ADNR   | IMDG  | IATA   |
|-----------------------------------|--|--|---|--|
| 14.1 UN number                    | UN1219   | UN1219   | UN1219  | UN1219   |
| 14.2 UN proper shipping name      | ISOPROPANOL solution   | ISOPROPANOL solution   | ISOPROPANOL solution  | Isopropanol solution   |
| 14.3 Transport hazard class(es)   | 3<br> | 3<br> | 3<br> | 3<br> |
| 14.4 Packing group                | II   | II   | II  | II   |
| 14.5 Environmental hazards        | None.  | None.  | None.   | None.  |
| 14.6 Special precautions for user | None.  | None.  | None.   | None.  |

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

### 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

##### Substances of very high concern

None of the components are listed.

**SECTION 15: Regulatory information**

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

**Other EU regulations****National regulations**

The Chemicals (Hazard Information and Packaging for Supply) Regulations.  
The Control of Substances Hazardous to Health Regulations.  
Health and Safety at Work Act.

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.

**SECTION 16: Other information**

☑ Indicates information that has changed from previously issued version.

|   |   |
|---|---|
| <b>Abbreviations and acronyms</b>             | : ATE = Acute Toxicity Estimate<br>CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]<br>DNEL = Derived No Effect Level<br>EUH statement = CLP-specific Hazard statement<br>PNEC = Predicted No Effect Concentration<br>RRN = REACH Registration Number   |
| <b>Full text of abbreviated H statements</b>  | : H224 Extremely flammable liquid and vapour.<br>H225 Highly flammable liquid and vapour.<br>H318 Causes serious eye damage.<br>H319 Causes serious eye irritation.<br>H336 May cause drowsiness or dizziness.<br>H400 Very toxic to aquatic life.  |
| <b>Full text of classifications [CLP/GHS]</b> | : Aquatic Acute 1, H400 AQUATIC TOXICITY (ACUTE) - Category 1<br>Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1<br>Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2<br>Flam. Liq. 1, H224 FLAMMABLE LIQUIDS - Category 1<br>Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2<br>STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] - Category 3 |
| <b>Full text of abbreviated R phrases</b>     | : R11- Highly flammable.<br>R41- Risk of serious damage to eyes.<br>R36- Irritating to eyes.<br>R67- Vapours may cause drowsiness and dizziness.<br>R50- Very toxic to aquatic organisms.   |
| <b>Full text of classifications [DSD/DPD]</b> | : F - Highly flammable<br>Xi - Irritant<br>N - Dangerous for the environment  |
| <b>Date of printing</b>                       | : 11 May 2011   |
| <b>Date of issue/ Date of revision</b>        | : 11 May 2011   |
| <b>Date of previous issue</b>                 | : No previous validation  |
| <b>Version</b>                                | : 1   |
| <b>Notice to reader</b>                       |   |

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**SECTION 16: Other information**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, **NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.**