

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

### 1.1 Product identifier

|                                      |  |
|--------------------------------------|--|
| <b>Product name</b>                  | : Citric Acid Monohydrate, Granular  |
| <b>EC number</b>                     | : 201-069-1  |
| <b>CAS number</b>                    | : 5949-29-1  |
| <b>Product code</b>                  | : 432768   |
| <b>Product description</b>           | : Not available.   |
| <b>Product type</b>                  | : Powder.  |
| <b>Other means of identification</b> | : 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, hydrate (1:1); citric acid; Citric acid monohydrat; 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate; Citric acid monohydrate |

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

|                            |   |
|----------------------------|---|
| <b>Product use</b>         | : Food additive. Manufacture of pharmaceutical products. Manufacture of personal care products. |
| <b>Area of application</b> | : Industrial applications.  |

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

S.A. Citrique Belge N.V.  
 Pastorijstraat 249  
 3300 TIENEN  
 Belgium

**e-mail address of person responsible for this SDS** : [compliance@citriquebelge.com](mailto:compliance@citriquebelge.com)

### 1.4 Emergency telephone number

#### Supplier

|                           |                      |
|---------------------------|----------------------|
| <b>Telephone number</b>   | : +32-16-806408      |
| <b>Hours of operation</b> | : Hours of operation |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mono-constituent substance

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

Eye Irrit. 2, H319

**Classification according to Directive 67/548/EEC [DSD]**

Xi; R36

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

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

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Warning

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1/12

**Citric Acid Monohydrate, Granular****SECTION 2: Hazards identification**

- Hazard statements** : Causes serious eye irritation.
- Precautionary statements**
- Prevention** : Wear eye or face protection: Recommended: safety glasses with side-shields.  
Wash hands thoroughly after handling.
- Response** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Storage** : Not applicable.
- Disposal** : Not applicable.

**Supplemental label elements** : Not applicable.

**2.3 Other hazards**

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

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

**Other hazards which do not result in classification** : Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

**SECTION 3: Composition/information on ingredients**

**Substance/mixture** : Mono-constituent substance

| Product/ingredient name  | Identifiers                     | %     | Classification   |   | Type |
|--------------------------|---------------------------------|-------|--|---|------|
|                          |                                 |       | 67/548/EEC   | Regulation (EC) No. 1272/2008 [CLP]   |      |
| Citric acid, monohydrate | EC: 201-069-1<br>CAS: 5949-29-1 | ≥99.8 | Xi; R36<br><br><b>See section 16 for the full text of the R-phrases declared above</b> | Eye Irrit. 2, H319<br><br><b>See Section 16 for the full text of the H-statements declared above.</b> | [A]  |

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[A] Constituent

[B] Impurity

[C] Stabilising additive

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.

**SECTION 4: First aid measures**

- 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. 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.
- 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** : Causes serious eye irritation.
- Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : Irritating to mouth, throat and stomach.

**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** : Water or Foam
- Unsuitable extinguishing media** : Do not use water jet.

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

**SECTION 5: Firefighting measures**

**Hazards from the substance or mixture** : Fine dust clouds may form explosive mixtures with air.

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

**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. Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product.

**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.

**Additional information** : Collect contaminated fire-fighting water separately. It must not enter the sewage system. Contain and dispose of waste according to local regulations.

**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 spilled material. Shut off all ignition sources. No flames, smoking or flames in hazard area. Avoid breathing dust. 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** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Neutralise acids by applying basic substances (soda ash or lime) or use an acid spill kit. Avoid creating dusty conditions and prevent wind dispersal. Vacuum or sweep up material and place in a designated, labelled waste container.

**Large spill** : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. Neutralise acids by applying basic substances (soda ash or lime) or use an acid spill kit. Avoid creating dusty conditions and prevent wind dispersal. Vacuum or sweep up material and place in a designated, labelled waste container.

**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, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. 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: 10 to 30°C (50 to 86°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. Do not reuse container.

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : 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

No exposure limit value known.

**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

No DELs available.

#### Predicted effect concentrations

No PECs available.

### 8.2 Exposure controls

## SECTION 8: Exposure controls/personal protection

- 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 operating conditions cause high dust concentrations to be produced, use dust goggles. Recommended: 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. >8 hours (breakthrough time): nitrile rubber
- 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.
- 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** : Solid. [Crystalline]
- Colour** : Colourless.
- Odour** : Odourless.
- Odour threshold** : Not available.
- pH** : 2.2 at g/l: 7
- Melting point/freezing point** : 100°C
- Initial boiling point and boiling range** : Not available.
- Flash point** : Not available.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Non-flammable.
- Burning time** : Not available.
- Burning rate** : Not available.
- Upper/lower flammability or explosive limits** : Not available.
- Vapour pressure** : < 0.001 hPa at 25°C
- Vapour density** : Not available.
- Relative density** : 1.542 g/cm<sup>3</sup> at °C:18

**SECTION 9: Physical and chemical properties**

|   |  |
|---|--|
| <b>Solubility(ies)</b>                        | : methanol: 1,970 g/kg (19°C)<br>Ether.: 21.7 g/kg<br>Chloroform.: 0.07 g/kg<br>Water: 1000 g/l (25°C) |
| <b>Partition coefficient: n-octanol/water</b> | : -1.67  |
| <b>Auto-ignition temperature</b>              | : Not available.   |
| <b>Decomposition temperature</b>              | : Not available.   |
| <b>Viscosity</b>                              | : Not available.   |
| <b>Explosive properties</b>                   | : Dust Class: St(H)1   |
| <b>Oxidising properties</b>                   | : Not available.   |

**9.2 Other information**

**Physical/chemical properties comments** : Molecular weight: 210.14 g/mole

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. Decomposes on heating.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). 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. Prevent dust accumulation.  
Temperature >35°C
- 10.5 Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials, reducing materials, acids and alkalis.
- 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 |
|--------------------------|-----------|---------|------------|----------|
| Citric acid, monohydrate | LD50 Oral | Mouse   | 5400 mg/kg | -        |
|                          | LD50 Oral | Rat     | 3000 mg/kg | -        |

**Conclusion/Summary** : Not classified as dangerous

**Irritation/Corrosion**

| Product/ingredient name  | Result                 | Species | Score | Exposure | Observation |
|--------------------------|------------------------|---------|-------|----------|-------------|
| Citric acid, monohydrate | Eyes - Severe irritant | Rabbit  | -     | -        | -           |
|                          | Skin - Mild irritant   | Rabbit  | -     | -        | -           |

**Conclusion/Summary**

**Skin** : Causes mild skin irritation.

## SECTION 11: Toxicological information

**Eyes** : Causes eye irritation.  
**Respiratory** : May cause respiratory irritation.

### Sensitiser

#### **Conclusion/Summary**

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

### Mutagenicity

| Product/ingredient name  | Test | Experiment                                       | Result   |
|--------------------------|------|--|----------|
| Citric acid, monohydrate | -    | Experiment: In vivo<br>Subject: Mammalian-Animal | Negative |

**Conclusion/Summary** : Not mutagenic in Ames test.

### Carcinogenicity

**Conclusion/Summary** : Not classified as dangerous  
Rat Oral: No carcinogenic effect.

### Reproductive toxicity

**Conclusion/Summary** : No known significant effects or critical hazards.

### Teratogenicity

**Conclusion/Summary** : No known significant effects or critical hazards.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Routes of entry anticipated: Dermal.

### Potential acute health effects

**Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

**Ingestion** : Irritating to mouth, throat and stomach.

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

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

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

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

**Ingestion** : No specific data.

**Skin contact** : No specific data.

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

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**SECTION 11: Toxicological information****Potential chronic health effects**

| Product/ingredient name  | Result             | Species | Dose       | Exposure |
|--------------------------|--------------------|---------|------------|----------|
| Citric acid, monohydrate | Chronic NOAEL Oral | Rat     | 1200 mg/kg | 2 years  |

|                              |  |
|------------------------------|--|
| <b>Conclusion/Summary</b>    | : Not classified as dangerous  |
| <b>General</b>               | : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. |
| <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 |
|--------------------------|----------------------------|--|----------|
| Citric acid, monohydrate | Acute EC50 120 mg/l        | Daphnia                                | 72 hours |
|                          | Acute EC50 >100000 mg/l    | Micro-organism -<br>Pseudomonas putida | 16 hours |
|                          | Acute LC50 440 to 760 mg/l | Fish - Leuciscus idus                  | 96 hours |

**Conclusion/Summary** : Not classified as dangerous

**12.2 Persistence and degradability**

**Conclusion/Summary** : Readily biodegradable

| Product/ingredient name  | Aquatic half-life | Photolysis | Biodegradability |
|--------------------------|-------------------|------------|------------------|
| Citric acid, monohydrate | -                 | -          | Readily          |

**12.3 Bioaccumulative potential**

| Product/ingredient name  | LogP <sub>ow</sub> | BCF | Potential |
|--------------------------|--------------------|-----|-----------|
| Citric acid, monohydrate | -1.67              | -   | 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** : No.

**vPvB** : No.

**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. 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.

**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. 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. 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           |
|--|----------------|----------------|----------------|----------------|
| <b>14.1 UN number</b>                    | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| <b>14.2 UN proper shipping name</b>      | -              | -              | -              | -              |
| <b>14.3 Transport hazard class(es)</b>   | -              | -              | -              | -              |
| <b>14.4 Packing group</b>                | -              | -              | -              | -              |
| <b>14.5 Environmental hazards</b>        | No.            | No.            | No.            | No.            |
| <b>14.6 Special precautions for user</b> | Not available. | Not available. | Not available. | Not available. |
| <b>Additional information</b>            | -              | -              | -              | -              |

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : 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

###### 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** : Not applicable.

##### Other EU regulations

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

**Black List Chemicals** : Not listed

**Priority List Chemicals** : Not listed

**Integrated pollution prevention and control list (IPPC) - Air** : Not listed

**Integrated pollution prevention and control list (IPPC) - Water** : Not listed

##### International regulations

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

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

**15.3 Registration status** : Applicable.

## 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]  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number

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

| Classification     | Justification   |
|--------------------|-----------------|
| Eye Irrit. 2, H319 | Expert judgment |

**Full text of abbreviated H statements** : H319 Causes serious eye irritation.

**Full text of classifications [CLP/GHS]** : Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

**Date of issue/Date of revision** : 25 July 2011

11/12

## SECTION 16: Other information

**Full text of abbreviated R phrases** : R36- Irritating to eyes.

**Full text of classifications [DSD/DPD]** : Xi - Irritant

**Date of issue/ Date of revision** : 25 July 2011

**Date of previous issue** : 18 May 2010

**Version** : 5

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.