Safety Data Sheet

## Horizon Bright

Revision: 2012-05-25

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

### 1.1 Product identifier

Trade name: Horizon Bright
1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses:
For industrial use only.
AISE-P110 - Laundry aid (non-gassing). Automatic process
Uses advised against Uses other than those identified are not recommended
1.3 Details of the supplier of the safety data sheet

Diversey Ltd

Contact details
Weston Favell Centre, Northampton NN3 8PD, United Kingdom
Tel: 01604405311, Fax: 01604406809
Regulatory Email: MSDSinfoUK@diversey.com
1.4 Emergency telephone number

For medical or environmental emergency only:
call 08000520185

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The product has been classified and labelled in accordance with Directive 1999/45/EC and corresponding national legislation.

## Indication of danger

Xi - Irritant
Risk phrases:
R 8 - Contact with combustible material may cause fire.
R41 - Risk of serious damage to eyes.
2.2 Label elements


Xi - Irritant

## Risk phrases:

R 8 - Contact with combustible material may cause fire.
R41 - Risk of serious damage to eyes.

## Safety phrases:

S14l - Keep away from impurities, decomposition catalysts, alkalis, reducing agents and flammable substances.
S26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 3/7 - Keep container tightly closed in a cool place.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

### 2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Classification (EC) <br> 1272/2008 | Notes <br> Weight <br> percent |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic <br> acid | $410-850-8$ | $128275-31-0$ | No data available | Xi,O,N; R7-41-50 | Org. Perox. D (H242) <br> Eye Dam. 1 (H318) <br> Aquatic Acute 1 (H400) | 10-20 |  |
| 1-hydroxyethane-1,1-diphospho <br> nic acid | $220-552-8$ | $2809-21-4$ | $01-2119510391-53$ | Xi; R41 | Eye Dam. 1 (H318) <br> Met. Corr. 1 (H290) |  | $1-3$ |

* Polymer.

For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.
Workplace exposure limit(s), if available, are listed in subsection 8.1.
[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.
[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006
[3] Exempted: Annex V of Regulation (EC) No 1907/2006.
[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

## Inhalation

Skin contact
Eye contact
Ingestion
Self-protection of first aider:

Remove from source of exposure. Get medical attention.
Rinse with plenty of water. Take off all contaminated clothing immediately. Get medical attention. Wash off immediately with plenty of water. Get medical attention immediately.
Remove material from mouth. Immediately drink 1-2 glasses of water or milk. Get medical attention.
Consider personal protective equipment as indicated in subsection 8.2.
4.2 Most important symptoms and effects, both acute and delayed

Inhalation
Causes irritation.
Skin contact Powerful oxidizing agent.
Eye contact Causes severe irritation.
Ingestion
Sensitisation
4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

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

No special hazards known.
5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing, gloves and eye/face protection.

### 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.

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

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).
6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

## Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Do not mix with other products unless advised by Diversey. For advice on general occupational hygiene see subsection 8.2. For environmental exposure controls see subsection 8.2. For incompatible materials see subsection 10.5.

## Horizon Bright

Prevention of fire and explosion
No special precautions required.
7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms / facilities:
In accordance with local and national regulations.
Combined storage in storage rooms / facilities:
In accordance with local and national regulations. Store away from products containing chlorine-based bleaching agents or sulphites.

## Basic storage conditions

Store in original container. Keep container tightly closed. For conditions to avoid see subsection 10.4.

### 7.3 Specific end use(s)

No specific advice for end use available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

## Workplace exposure limits

Air limit values, if available:
Biological limit values, if available:
Recommended monitoring procedures, if available:
Additional exposure limits under the conditions of use, if available:
DNEL/DMEL and PNEC values
Human exposure
DNEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s) | Short term - Local <br> effects | Short term - Systemic <br> effects | Long term - Local <br> effects | Long term - Systemic <br> effects |
| :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid | No data available | No data available | No data available | No data available |
| 1-hydroxyethane-1,1-diphosphonic acid | No data available | No data available | No data available |  |

DNEL dermal exposure - Worker

| Ingredient(s) | Short term - Local <br> effects | Short term - Systemic <br> effects (mg/kg bw) | Long term - Local <br> effects | Long term - Systemic <br> effects (mg/kg bw) |
| :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid | No data available | No data available | No data available | No data available |
| 1-hydroxyethane-1,1-diphosphonic acid | No data available | No data available | No data available | No data available |

DNEL dermal exposure - Consumer

| Ingredient(s) | Short term - Local <br> effects | Short term - Systemic <br> effects (mg/kg bw) | Long term - Local <br> effects | Long term - Systemic <br> effects (mg/kg bw) |
| :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid | No data available | No data available | No data available | No data available |
| 1-hydroxyethane-1,1-diphosphonic acid | No data available | No data available | No data available | No data available |

DNEL inhalatory exposure - Worker ( $\mathrm{mg} / \mathrm{m}^{3}$ )

| Ingredient(s) | Short term - Local <br> effects | Short term - Systemic <br> effects | Long term - Local <br> effects | Long term - Systemic <br> effects |
| :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid | No data available | No data available | No data available | No data available |
| 1-hydroxyethane-1,1-diphosphonic acid | No data available | No data available | No data available | No data available |

DNEL inhalatory exposure - Consumer $\left(\mathrm{mg} / \mathrm{m}^{3}\right)$

| Ingredient(s) | Short term - Local <br> effects | Short term - Systemic <br> effects | Long term - Local <br> effects | Long term - Systemic <br> effects |
| :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid | No data available | No data available | No data available | No data available |
| 1-hydroxyethane-1,1-diphosphonic acid | No data available | No data available | No data available | No data available |

## Environmental exposure

Environmental exposure - PNEC

| Ingredient(s) | Surface water, fresh <br> $(\mathbf{m g} / \mathbf{l})$ | Surface water, marine <br> $(\mathbf{m g} / \mathbf{l})$ | Intermittent (mg/l) | Sewage treatment <br> plant (mg/l) |
| :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid | No data available | No data available | No data available | No data available |
| 1-hydroxyethane-1,1-diphosphonic acid | 0.136 | 0.0136 | No data available | 20 |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater <br> $(\mathbf{m g} / \mathbf{k g})$ | Sediment, marine <br> $(\mathbf{m g} / \mathbf{k g})$ | Soil (mg/kg) | Air (mg/m ${ }^{\mathbf{3})}$ |
| :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid | No data available | No data available | No data available | No data available |
| 1-hydroxyethane-1,1-diphosphonic acid | 59 | No data available | 96 | No data available |

### 8.2 Exposure controls

## General health and safety measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing. Wash hands before breaks and at the end of workday. Avoid contact with skin and eyes.

The following information applies for the uses indicated in subsection 1.2.
If available, please refer to the product information sheet for application and handling instructions.
Normal use conditions are assumed for this section.
Recommended safety measures for handling the undiluted product:

Appropriate engineering controls: If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.
Avoid direct contact and/or splashes where possible. Train personnel.
Appropriate organisational controls:

Personal protective equipment
Eye / face protection:
Hand protection:
Safety glasses or goggles (EN 166).
Chemical-resistant protective gloves (EN 374)

Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature

Suggested gloves for prolonged contact:
Material: butyl rubber
Penetration time: $>=480 \mathrm{~min}$
Material thickness: >= 0.7 mm
Suggested gloves for protection against splashes:
Material: nitrile rubber
Penetration time: $>=30 \mathrm{~min}$
Material thickness: >= 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen

| Body protection: | Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may <br> occur. |
| :--- | :--- |
| Respiratory protection: | No special requirements under normal use conditions | | Environmental exposure controls: | No special requirements under normal use conditions. |
| :--- | :--- |

Environmental exposure controls: No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (\%): 1

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: No special requirements under normal use conditions.
Personal protective equipment .
Eye / face protection: No special requirements under normal use conditions.
Hand protection:
Body protection: No special requirements under normal use conditions
Respiratory protection: No special requirements under normal use conditions

Environmental exposure controls:
No special requirements under normal use conditions.

## SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Physical State: Liquid

Colour
Odour
pH:
Boiling point/range ( ${ }^{\circ} \mathrm{C}$ ):
Milky White
Product specific
$\approx 4$ (neat)
Flash point ( ${ }^{\circ} \mathrm{C}$ ):
Not determined
Flammability
Specific gravity:
Solubility in / Miscibility with
Viscosity:
Not applicable.
Not flammable.
$1.01 \mathrm{~g} / \mathrm{cm}^{3}\left(20^{\circ} \mathrm{C}\right)$
Water: Fully miscible
$\approx 550 \mathrm{mPa} . \mathrm{s}\left(20^{\circ} \mathrm{C}\right)$
Not explosive.
Explosive properties
Contact with combustible material may cause fire.

### 9.2 Other information

No other relevant information available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal storage and use conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.
10.4 Conditions to avoid

Keep in a cool place.

### 10.5 Incompatible materials

Contact with combustible material may cause fire. Keep away from impurities, decomposition catalysts, alkalis, reducing agents and flammable substances. Keep away from products containing chlorine-based bleaching agents or sulphites. Reacts with alkali.

### 10.6 Hazardous decomposition products

None known under normal storage and use conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Mixtures
No test data is available on the mixture
Substance data, where relevant and available, are listed below.

Acute toxicity
Acute oral toxicity

| Ingredient(s) | Endpoint | Value <br> $(\mathbf{m g} / \mathbf{k g})$ | Species | Method <br> Exposure <br> time $(\mathbf{h})$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid |  | No data <br> available |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid | $\mathrm{LD}_{50}$ | 1878 | Rat | Method not given |  |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value <br> $(\mathbf{m g} / \mathbf{k g})$ | Species | Method <br> Exposure <br> time $(\mathbf{h})$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid |  | No data <br> available |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid | $\mathrm{LD}_{50}$ | $>6000$ | Rabbit | Method not given |  |

Acute inhalative toxicity $\quad$ Ingredient(s)

|  | Endpoint | Value <br> $(\mathbf{m g} / \mathbf{)}$ | Species | Method <br> Exposure <br> time $\mathbf{( h )}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid |  | No data <br> available |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid |  | No data <br> available |  |  |  |

## Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
| :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid | No data available |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid | No data available | Rabbit | Method not given |  |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
| :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid | No data available |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid | Severe damage | Rabbit | Non guideline test |  |

Respiratory tract irritation and corrosivity
Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
| :---: | :--- | :--- | :--- | :--- |
| 6 -(phthalimido)peroxyhexanoic acid | No data available |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid | No data available |  |  |  |

## Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
| :--- | :--- | :--- | :--- | :--- |


| 6-(phthalimido)peroxyhexanoic acid | No data available |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 1-hydroxyethane-1,1-diphosphonic acid | Not sensitising |  |  |  |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
| :---: | :--- | :--- | :--- | :--- |
| 6-(phthalimido)peroxyhexanoic acid | No data available |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid | No data available |  |  |  |

## Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

| Ingredient(s) | Endpoint | Value <br> (mg/kg bw/d) | Species | Method | Exposure <br> time (days) | Specific effects and organs <br> affected |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid |  | No data <br> available |  |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid | NOAEL | 1724 | Rat |  | 90 |  |

Sub-chronic dermal toxicity

| Ingredient(s) | Endpoint | Value <br> (mg/kg bw/d) | Species | Method | Exposure <br> time (days) | Specific effects and organs <br> affected |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid |  | No data <br> available |  |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid |  | No data <br> available |  |  |  |  |

Sub-chronic inhalation toxicity

| Ingredient(s) | Endpoint | Value <br> (mg/kg bw/d) | Species | Method | Exposure <br> time (days) | Specific effects and organs <br> affected |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid |  | No data <br> available |  |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid |  | No data <br> available |  |  |  |  |

Chronic toxicity

| Ingredient(s) | Exposure <br> route | Endpoint | Value <br> (mg/kg bw/d) | Species | Method | Exposure <br> time | Specific effects and <br> organs affected | Remark |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyh <br> exanoic acid |  |  | No data <br> available |  |  |  |  |  |
| 1-hydroxyethane-1,1-di <br> phosphonic acid | Oral | NAOEL | 1583 | Rat | Non <br> guideline <br> test |  |  |  |

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Mixture data:
Based on available data, the classification criteria are not met.
Substance data, where relevant and available

Carcinogenicity

| Ingredient(s) | Effect |
| :---: | :--- |
| 6-(phthalimido)peroxyh <br> exanoic acid | No data available |
| 1-hydroxyethane-1,1-di <br> phosphonic acid | No evidence for carcinogenicity, negative test results |



Potential adverse health effects and symptoms
Effects and symptoms related to the product, if any, are listed in subsection 4.2.

## SECTION 12: Ecological information

## Horizon Bright

### 12.1 Toxicity

Mixtures
No test data is available on the mixture.
Substance data, where relevant and available, are listed below

Aquatic short-term toxicity
Aquatic short-term toxicity - fish

| Ingredient(s) | Endpoint | Value <br> $(\mathbf{m g} / \mathbf{)}$ | Species | Method <br> Exposure <br> time $(\mathbf{h})$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid |  | No data <br> available |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid | $\mathrm{LC}_{50}$ | 868 | Lepomis <br> macrochirus | Method not given | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value <br> $(\mathbf{m g} / \mathbf{l})$ | Species | Method <br> Exposure <br> time (h) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid |  | No data <br> available |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid | $\mathrm{EC}_{50}$ | 527 | Daphnia <br> magna Straus | Method not given | 48 |

Aquatic short-term toxicity - algae
Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value <br> $(\mathbf{m g} / \mathbf{l})$ | Species | Method <br> Exposure <br> time $(\mathbf{h})$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid |  | No data <br> available |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid | $\mathrm{EC}_{50}$ | 39 | Pseudokirchner <br> iella <br> subcapitata | Method not given | 336 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value <br> (mg/l) | Species | Method <br> Exposure <br> time (days) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6 -(phthalimido)peroxyhexanoic acid |  | No data <br> available |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid |  | No data <br> available |  |  |  |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value <br> $(\mathbf{m g} / \mathbf{l})$ | Inoculum | Method <br> Exposure <br> time |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6 -(phthalimido)peroxyhexanoic acid |  | No data <br> available |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid |  | No data <br> available |  |  |  |

## Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value <br> $(\mathbf{m g / l})$ | Species | Method | Exposure <br> time | Effects observed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid |  | No data <br> available |  |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid | NOEC | 180 | Oncorhynchus <br> mykiss | Method not <br> given | 14 day(s) |  |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value <br> $(\mathbf{m g / l})$ | Species | Method | Exposure <br> time | Effects observed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid |  | No data <br> available |  |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid | NOEC | 6.75 | Daphnia <br> magna | Method not <br> given | 28 day(s) |  |

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

## Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

### 12.2 Persistence and degradability

## Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation
Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical <br> method | $\mathbf{D T}_{50}$ | Method | Evaluation |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyhexanoic acid |  |  |  |  | No data available |
| 1-hydroxyethane-1,1-diphosphonic acid |  |  | $22,88 \%$ in 5 <br> day(s) | OECD 301D | No data available |

Ready biodegradability - anaerobic and marine conditions, if available:
Degradation in relevant environmental compartments, if available:

### 12.3 Bioaccumulative potential

| Partition coefficient n -octanol/water (log Kow) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Ingredient(s) | Value | Method | Evaluation | Remark |
| 6-(phthalimido)peroxyhexanoic acid | No data available |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid | No data available |  |  |  |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation |
| :---: | :---: | :---: | :---: | :---: |
| 6-(phthalimido)peroxyh <br> exanoic acid | No data available |  |  |  |
| $1-$-hydroxyethane-1,1-di <br> phosphonic acid | No data available |  |  |  |

### 12.4 Mobility in soil

| Adsorption/Desorption to soil or sediment |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ingredient(s) Adsorption <br> coefficient <br> Log Koc Desorption <br> coefficient <br> Log Koc(des) Method <br> Soil/sediment <br> type Evaluation <br> 6-(phthalimido)peroxyhexanoic acid No data available |  |  |  |  |  |
| 1-hydroxyethane-1,1-diphosphonic acid | No data available |  |  |  |  |

### 12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

### 12.6 Other adverse effects

No other adverse effects known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste from residues / unused products Dispose of in compliance with all Federal, state, provincial, and local laws and regulations.
European Waste Catalogue: 1609 03* - peroxides, for example hydrogen peroxide.

Empty packaging
Recommendation: Dispose of observing national or local regulations.
Suitable cleaning agents
Water, if necessary with cleaning agent.

## SECTION 14: Transport information

## ADR, RID, ADN, IMO/IMDG, ICAO/IATA

14.1 UN number: Non-dangerous goods
14.2 UN proper shipping name: Non-dangerous goods
14.3 Transport hazard class(es): Non-dangerous goods Class:-
14.4 Packing group: Non-dangerous goods
14.5 Environmental hazards: Non-dangerous goods
14.6 Special precautions for user: Non-dangerous goods
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: The product is not transported in bulk tankers.

## SECTION 15: Regulatory information

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

Ingredients according to EC Detergents Regulation 648/2004
$\begin{array}{ll}\text { oxygen-based bleaching agents } & 15-30 \%\end{array}$
phosphonates
15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

## SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

MSDS code: MSDSGB6719
Version 01
Revision: 2012-05-25

Reason for revision:
Overall design adjusted in accordance with Regulation (EC) No 1907/2006, Annex II
Full text of the R, H and EUH phrases mentioned in section 3

- R50 - Very toxic to aquatic organisms.
- R 7 - May cause fire.
- R41-Risk of serious damage to eyes.
- H242 - Heating may cause a fire.
-H318 - Causes serious eye damage.
- H400 - Very toxic to aquatic life.

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
-vPvB - very Persistent and very Bioaccumulative

