

Carefree Speed Stripper

Revision: 2012-10-04

Version 03

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

1.1 Product identifier

Trade name: Carefree Speed Stripper

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

Identified uses:

For professional use only

AISE-P404 - Floor stripper. Manual process

AISE-P405 - Floor stripper. Semi-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: 01604 405311, Fax: 01604 406809

Regulatory Email: MSDSinfoUK@sealedair.com

1.4 Emergency telephone number

For medical or environmental emergency only:

call 0800 052 0185

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

C - Corrosive

Risk phrases:

R34 - Causes burns.

2.2 Label elements



C - Corrosive

Contains sodium hydroxide

Risk phrases:

R34 - Causes burns.

Safety phrases:

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28a - After contact with skin, wash immediately with plenty of water.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S51 - Use only in well-ventilated areas.

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

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3.2 Mixtures

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Classification (EC) 1272/2008 | Notes | Weight percent |
|-------------------------|-----------|------------|------------------|---------------------|--|-------|----------------|
| 2-butoxyethanol | 203-905-0 | 111-76-2 | 01-2119475108-36 | Xn; R20/21/22-36/38 | Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) | | 10-20 |
| 2-aminoethanol | 205-483-3 | 141-43-5 | 01-2119486455-28 | C; R20/21/22-34-37 | Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) STOT SE 3 (H335) | | 3-10 |
| sodium cumenesulphonate | 248-983-7 | 28348-53-0 | 01-2119489411-37 | Xi; R36 | Eye Irrit. 2 (H319) | | 3-10 |
| sodium hydroxide | 215-185-5 | 1310-73-2 | 01-2119457892-27 | C; R35 | Skin Corr. 1A (H314) | | 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

General Information

If unconscious place in recovery position and seek medical advice.

Inhalation

Remove from source of exposure. Get medical attention immediately.

Skin contact

Rinse with plenty of water. Take off all contaminated clothing immediately. Get medical attention.

Eye contact

Wash off immediately with plenty of water. Get medical attention immediately.

Ingestion

Remove material from mouth. Immediately drink 1-2 glasses of water or milk. Get medical attention immediately.

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation

Severe irritant, may cause respiratory tract irritation.

Skin contact

Causes burns.

Eye contact

Causes severe or permanent damage.

Ingestion

Causes burns. Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

Sensitisation

No known effects.

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

Ensure adequate ventilation. Do not breathe dust or vapour. 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

Use neutralising agent. 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.

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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. Use only in well-ventilated areas. 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.

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. For incompatible materials see subsection 10.5.

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:

| Ingredient(s) | UK - Long term value(s) | UK - Short term value(s) |
|------------------|---------------------------------|---------------------------------|
| 2-butoxyethanol | 25 ppm 123 mg/m ³ | 50 ppm 246 mg/m ³ |
| 2-aminoethanol | 1 ppm 2.5 mg/m ³ | 3 ppm 7.6 mg/m ³ |
| sodium hydroxide | | 2 mg/m ³ |

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 effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| 2-butoxyethanol | No data available | 13.4 | No data available | 3.2 |
| 2-aminoethanol | No data available | No data available | No data available | 3.75 |
| sodium cumenesulphonate | No data available | No data available | No data available | No data available |
| sodium hydroxide | No data available | No data available | No data available | No data available |

DNEL dermal exposure - Worker

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|-------------------------|----------------------------|--|---------------------------|---|
| 2-butoxyethanol | No data available | 89 | No data available | 75 |
| 2-aminoethanol | No data available | No data available | No data available | 1 |
| sodium cumenesulphonate | No data available | No data available | No data available | No data available |
| sodium hydroxide | 2 % | No data available | No data available | No data available |

DNEL dermal exposure - Consumer

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|-------------------------|----------------------------|--|---------------------------|---|
| 2-butoxyethanol | No data available | 44.5 | No data available | 38 |
| 2-aminoethanol | No data available | No data available | No data available | 0.24 |
| sodium cumenesulphonate | No data available | No data available | No data available | No data available |
| sodium hydroxide | 2 % | No data available | No data available | No data available |

DNEL inhalatory exposure - Worker (mg/m³)

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| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| 2-butoxyethanol | 246 | 663 | No data available | 98 |
| 2-aminoethanol | No data available | No data available | 3.3 | 3.3 |
| sodium cumenesulphonate | No data available | No data available | No data available | No data available |
| sodium hydroxide | No data available | No data available | 1 | No data available |

DNEL inhalatory exposure - Consumer (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| 2-butoxyethanol | 123 | 426 | No data available | 49 |
| 2-aminoethanol | No data available | No data available | 2 | 2 |
| sodium cumenesulphonate | No data available | No data available | No data available | No data available |
| sodium hydroxide | No data available | No data available | 1 | No data available |

Environmental exposure

Environmental exposure - PNEC

| Ingredient(s) | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|-------------------------|-----------------------------|------------------------------|---------------------|-------------------------------|
| 2-butoxyethanol | 8.8 | 0.88 | 9.1 | 463 |
| 2-aminoethanol | 0.085 | 0.0085 | No data available | 100 |
| sodium cumenesulphonate | No data available | No data available | No data available | No data available |
| sodium hydroxide | No data available | No data available | No data available | No data available |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m ³) |
|-------------------------|------------------------------|--------------------------|-------------------|--------------------------|
| 2-butoxyethanol | 34.6 | 3.46 | 3.13 | No data available |
| 2-aminoethanol | 0.425 | No data available | 0.035 | 0.025 |
| sodium cumenesulphonate | No data available | No data available | No data available | No data available |
| sodium hydroxide | No data available | No data available | No data available | 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. Use only in well-ventilated areas. 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. Where possible: use in automated/closed system and cover open containers. Transport over pipes. Filling with automatic systems. Use tools for manual handling of product.

Appropriate organisational controls:

Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment**Eye / face protection:**

Safety glasses or goggles (EN 166).

Hand protection:

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 min

Material thickness: >= 0.7 mm

Suggested gloves for protection against splashes:

Material: nitrile rubber

Penetration time: >= 30 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 occur.

Respiratory protection:

No special requirements under normal use conditions

Environmental exposure controls:

Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the diluted product:

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Recommended maximum concentration (%): 25

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection: No special requirements under normal use conditions.
Hand protection: 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 min
 Material thickness: ≥ 0.7 mm

Suggested gloves for protection against splashes:

Material: nitrile rubber
 Penetration time: ≥ 30 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: 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: Clear Pale Yellow
Odour: Slightly perfumed
pH: > 12 (neat)
Boiling point/range (°C): Not determined
Flash point (°C): Not applicable.
Flammability: Not flammable.
Specific gravity: 1.04 g/cm³ (20°C)
Solubility in / Miscibility with Water: Fully miscible
Explosive properties: Not explosive.
Oxidising properties: Not oxidising.

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

None known under normal storage and use conditions.

10.5 Incompatible materials

Reacts with acids.

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

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Substance data, where relevant and available, are listed below.

Acute toxicity

Acute oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|-------------------------|------------------|---------------|---------|-------------------|-------------------|
| 2-butoxyethanol | LD ₅₀ | 200 - 2000 | Rat | Method not given | |
| 2-aminoethanol | LD ₅₀ | 1515 | Rat | OECD 401 (EU B.1) | |
| sodium cumenesulphonate | LD ₅₀ | > 7000 | Rat | Method not given | |
| sodium hydroxide | LD ₅₀ | 1350 | Rat | Method not given | |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|-------------------------|------------------|---------------|---------|-------------------|-------------------|
| 2-butoxyethanol | LD ₅₀ | 400 - 2000 | Rat | Method not given | |
| 2-aminoethanol | LD ₅₀ | 2504 | Rabbit | OECD 402 (EU B.3) | |
| sodium cumenesulphonate | LD ₅₀ | > 2000 | Rabbit | Method not given | |
| sodium hydroxide | LD ₅₀ | 1350 | Rabbit | Method not given | |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|-------------------------|------------------|--------------|---------|------------------|-------------------|
| 2-butoxyethanol | LC ₅₀ | 20 | Rat | Method not given | 4 |
| 2-aminoethanol | LC ₅₀ | > 1.3 | Rat | Method not given | |
| sodium cumenesulphonate | LC ₅₀ | > 770 | Rat | Method not given | 4 |
| sodium hydroxide | LC ₅₀ | 4800 | Mouse | Method not given | 1 |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|-------------------------|-------------------|---------|-------------------|---------------|
| 2-butoxyethanol | Irritant | Rabbit | Method not given | |
| 2-aminoethanol | Corrosive | Rabbit | OECD 404 (EU B.4) | |
| sodium cumenesulphonate | No data available | | | |
| sodium hydroxide | Corrosive | Rabbit | Method not given | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|-------------------------|---------------|---------|-------------------|---------------|
| 2-butoxyethanol | Irritant | Rabbit | OECD 405 (EU B.5) | |
| 2-aminoethanol | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| sodium cumenesulphonate | Irritant | | Method not given | |
| sodium hydroxide | Corrosive | Rabbit | Method not given | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|-------------------------|-------------------|---------|--------|---------------|
| 2-butoxyethanol | No data available | | | |
| 2-aminoethanol | No data available | | | |
| sodium cumenesulphonate | No data available | | | |
| sodium hydroxide | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|-------------------------|-----------------|------------|---------------------------|-------------------|
| 2-butoxyethanol | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| 2-aminoethanol | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| sodium cumenesulphonate | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| sodium hydroxide | Not sensitising | | Human repeated patch test | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|-------------------------|-------------------|---------|--------|---------------|
| 2-butoxyethanol | No data available | | | |
| 2-aminoethanol | No data available | | | |
| sodium cumenesulphonate | No data available | | | |

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| | | | |
|------------------|-------------------|--|--|
| sodium hydroxide | No data available | | |
|------------------|-------------------|--|--|

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|-------------------------|----------|--------------------|---------|--------------------|----------------------|--------------------------------------|
| 2-butoxyethanol | | No data available | | | | |
| 2-aminoethanol | | No data available | | | | |
| sodium cumenesulphonate | NOAEL | 763 - 3534 | | OECD 408 (EU B.26) | 90 | |
| sodium hydroxide | | No data available | | | | |

Sub-chronic dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|-------------------------|----------|--------------------|---------|------------------|----------------------|--------------------------------------|
| 2-butoxyethanol | | No data available | | | | |
| 2-aminoethanol | | No data available | | | | |
| sodium cumenesulphonate | NOAEL | 440 | Mouse | Method not given | 90 | |
| sodium hydroxide | | No data available | | | | |

Sub-chronic inhalation toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|-------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| 2-butoxyethanol | | No data available | | | | |
| 2-aminoethanol | | No data available | | | | |
| sodium cumenesulphonate | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |

Chronic toxicity

| Ingredient(s) | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|-------------------------|----------------|----------|--------------------|---------|------------------|---------------|--------------------------------------|--------|
| 2-butoxyethanol | | | No data available | | | | | |
| 2-aminoethanol | | | No data available | | | | | |
| sodium cumenesulphonate | Dermal | NOAEL | 727 | Mouse | Method not given | 24 month(s) | | |
| sodium hydroxide | | | No data available | | | | | |

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 |
|-------------------------|--|
| 2-butoxyethanol | No data available |
| 2-aminoethanol | No data available |
| sodium cumenesulphonate | No evidence for carcinogenicity, negative test results |
| sodium hydroxide | No evidence for carcinogenicity, weight-of-evidence |

Mutagenicity

| Ingredient(s) | Result (in-vitro) | Method (in-vitro) | Result (in-vivo) | Method (in-vivo) |
|-------------------------|---|---|---|---------------------------------------|
| 2-butoxyethanol | No data available | | No data available | |
| 2-aminoethanol | No evidence for mutagenicity, negative test results | | No evidence for mutagenicity, negative test results | |
| sodium cumenesulphonate | No evidence for mutagenicity, negative test results | Method not given | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) |
| sodium hydroxide | No evidence for mutagenicity, negative test results | DNA repair test on rat hepatocytes OECD 473 | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) OECD 475 (EU B.11) |

Toxicity for reproduction

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| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|-------------------------|----------|---------------------|--------------------|---------|--------------------|---------------|--|
| 2-butoxyethanol | | | No data available | | | | |
| 2-aminoethanol | | Impaired fertility | No data available | | Not known | | No effects on fertility Indications of possible teratogenicity |
| sodium cumenesulphonate | NOAEL | Teratogenic effects | > 3000 | Rat | Non guideline test | | |
| sodium hydroxide | | | No data available | | | | No evidence for developmental toxicity No evidence for reproductive toxicity |

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**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 (mg/l) | Species | Method | Exposure time (h) |
|-------------------------|------------------|--------------|-----------------|--------------------|-------------------|
| 2-butoxyethanol | LC ₅₀ | > 100 | Fish | Method not given | 96 |
| 2-aminoethanol | LC ₅₀ | 349 | Cyprinus carpio | (EC) 440/2008, C.1 | 96 |
| sodium cumenesulphonate | LC ₅₀ | > 1000 | Fish | EPA-OPPTS | 96 |
| sodium hydroxide | LC ₅₀ | 35 | Various species | Method not given | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|-------------------------|------------------|--------------|----------------------|------------------|-------------------|
| 2-butoxyethanol | EC ₅₀ | > 100 | Daphnia magna Straus | Method not given | 24 |
| 2-aminoethanol | EC ₅₀ | 65 | Daphnia magna Straus | OECD 202, static | 48 |
| sodium cumenesulphonate | EC ₅₀ | > 1000 | Daphnia | EPA-OPPTS | 48 |
| sodium hydroxide | EC ₅₀ | 40.4 | Ceriodaphnia sp. | Method not given | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|-------------------------|--------------------------------|--------------|---------------------------------|------------------|-------------------|
| 2-butoxyethanol | EC ₅₀ | > 100 | Not specified | Method not given | 168 |
| 2-aminoethanol | EC ₅₀ | 2.5 | Pseudokirchneriella subcapitata | OECD 201 | 72 |
| sodium cumenesulphonate | E _r C ₅₀ | 310 | Not specified | | 72 |
| sodium hydroxide | EC ₅₀ | 22 | Photobacterium phosphoreum | Method not given | 0.25 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|-------------------------|----------|-------------------|---------|--------|----------------------|
| 2-butoxyethanol | | No data available | | | |
| 2-aminoethanol | | No data available | | | |
| sodium cumenesulphonate | | No data available | | | |
| sodium hydroxide | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|-------------------------|--------------------------------|--------------|--------------------|-------------------------------------|---------------|
| 2-butoxyethanol | EC ₀ | 700 | Pseudomonas putida | Method not given | 16 hour(s) |
| 2-aminoethanol | EC ₅₀ | > 1000 | Activated sludge | DIN EN ISO 8192-OECD 209-88/302/EEC | 3 hour(s) |
| sodium cumenesulphonate | E _r C ₅₀ | > 1000 | Bacteria | OECD 209 | 3 hour(s) |

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| | | | | |
|------------------|--|-------------------|--|--|
| sodium hydroxide | | No data available | | |
|------------------|--|-------------------|--|--|

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|-------------------------|----------|-------------------|-----------------|------------------|---------------|------------------|
| 2-butoxyethanol | | No data available | | | | |
| 2-aminoethanol | NOEC | 1.2 | Oryzias latipes | Method not given | 30 day(s) | |
| sodium cumenesulphonate | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|-------------------------|----------|-------------------|---------------|----------|---------------|------------------|
| 2-butoxyethanol | | No data available | | | | |
| 2-aminoethanol | NOEC | 0.85 | Daphnia magna | OECD 211 | 21 day(s) | |
| sodium cumenesulphonate | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |

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:

| Ingredient(s) | Half-life time | Method | Evaluation | Remark |
|------------------|----------------|------------------|-------------------------|--------|
| sodium hydroxide | 13 second(s) | Method not given | Rapidly photodegradable | |

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|-------------------------|----------|-------------------|---------------------|------------------|--------------------------------------|
| 2-butoxyethanol | | | 100% in 28 day(s) | Method not given | Readily biodegradable |
| 2-aminoethanol | | DOC reduction | > 90 % in 21 day(s) | OECD 301A | Readily biodegradable |
| sodium cumenesulphonate | | | | | Not readily biodegradable. |
| sodium hydroxide | | | | | Not applicable (inorganic substance) |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

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

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|-----------------|-------------------|----------|-----------------------------|--------|
| 2-butoxyethanol | 0.81 | OECD 107 | No bioaccumulation expected | |
| 2-aminoethanol | No data available | | | |

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| | | | | |
|-------------------------|-------------------|------------------|--------------------------------------|--|
| sodium cumenesulphonate | -1.1 | Method not given | Low potential for bioaccumulation | |
| sodium hydroxide | No data available | | Not relevant, does not bioaccumulate | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|-------------------------|-------------------|---------|--------|------------|--------|
| 2-butoxyethanol | No data available | | | | |
| 2-aminoethanol | No data available | | | | |
| sodium cumenesulphonate | No data available | | | | |
| sodium hydroxide | No data available | | | | |

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s) | Adsorption coefficient Log Koc | Desorption coefficient Log Koc(des) | Method | Soil/sediment type | Evaluation |
|-------------------------|--------------------------------|-------------------------------------|--------|--------------------|--|
| 2-butoxyethanol | No data available | | | | High potential for mobility in soil |
| 2-aminoethanol | No data available | | | | Adsorption to solid soil phase is not expected |
| sodium cumenesulphonate | No data available | | | | |
| sodium hydroxide | No data available | | | | Mobile in soil |

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: 20 01 15* - alkalines.

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: 1824

14.2 UN proper shipping name:

Sodium hydroxide solution

14.3 Transport hazard class(es):

Class:8

Label(s):8

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous:No

Marine pollutant No

14.6 Special precautions for user: None known.

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.

Other relevant information:

ADR

Classification Code C5

Tunnel restriction code E

Hazard identification number: 80

IMO/IMDG

EmS F-A, S-B

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The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

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**

non-ionic surfactants < 5%
perfumes

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: MSDS6607

Version 03

Revision: 2012-10-04

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

- R34 - Causes burns.
- R37 - Irritating to respiratory system.
- R36 - Irritating to eyes.
- R35 - Causes severe burns.
- R36/38 - Irritating to eyes and skin.
- R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.
- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.

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

End of Safety Data Sheet