

**Acipusfoam VF59**

Revision: 2024-12-05

Version: 02.1

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

**1.1 Product identifier**

**Trade name:** Acipusfoam VF59

UFI: 12H1-40TK-F003-6FT4

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

|                              |                                                            |
|------------------------------|------------------------------------------------------------|
| <b>Product use:</b>          | Open plant cleaning chemical.<br>For industrial use only.. |
| <b>Uses advised against:</b> | Uses other than those identified are not recommended.      |

**SWED - Sector-specific worker exposure description :**

AISE\_SWED\_IS\_8b\_1  
AISE\_SWED\_IS\_4\_1  
AISE\_SWED\_IS\_7\_4  
AISE\_SWED\_IS\_7\_5  
AISE\_SWED\_IS\_13\_3

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

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssebroeksedijk 2, 3542DN Utrecht], The Netherlands

**Contact details**

Diversey España, S.L.  
Avda Conde Duque, 5, Pol. Ind. La Postura, 28343 Valdemoro (Madrid), Tel: 900 533 856  
E-mail: es.pedidos@solenis.com

**1.4 Emergency telephone number**

Seek medical advice (show the label or safety data sheet where possible).  
Servicio de Información Toxicológica (Instituto Nacional de Toxicología y Ciencias Forenses), Tel: +34 915 620 420.

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Skin corrosion, Category 1B (H314)  
Serious eye damage, Category 1 (H318)  
Corrosive to metals, Category 1 (H290)

**2.2 Label elements**



**Signal word:** Danger.

Contains phosphoric acid (Phosphoric Acid), nitric acid (Nitric Acid), Alcohols, C10-16, ethoxylated (7-<15 EO) (C12-15 Pareth-7), alkyl alcohol ethoxylate (Trideceth 7-10), amines, C12-14 (even numbered)-alkyldimethyl, N-oxides (Lauramine oxide)

**Hazard statements:**

H314 - Causes severe skin burns and eye damage.  
H290 - May be corrosive to metals.

**Precautionary statements:**

P260 - Do not breathe vapours.  
P280 - Wear protective gloves, protective clothing and eye or face protection.  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTRE, doctor or physician.

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**2.3 Other hazards**

Regulation (EU) 2019/1148 - restricted explosives precursor.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

| Ingredient(s)                                          | EC number | CAS number  | REACH number         | Classification                                                                                                                                                                                                          | Notes | Weight percent |
|--------------------------------------------------------|-----------|-------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------|
| phosphoric acid                                        | 231-633-2 | 7664-38-2   | 01-211948592<br>4-24 | Skin corrosion, Category 1B (H314)<br>Acute toxicity - Oral, Category 4 (H302)<br>Serious eye damage, Category 1 (H318)<br>Corrosive to metals, Category 1 (H290)                                                       |       | 20-30          |
| nitric acid                                            | 231-714-2 | 7697-37-2   | 01-211948729<br>7-23 | Oxidising liquids, Category 3 (H272)<br>Acute toxicity - Inhalation, Category 3 (H331)<br>Skin corrosion, Category 1A (H314)<br>Corrosive to metals, Category 1 (H290)                                                  |       | 3-10           |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | [4]       | 68002-97-1  | [4]                  | Acute toxicity - Oral, Category 4 (H302)<br>Serious eye damage, Category 1 (H318)<br>Chronic aquatic toxicity, Category 3 (H412)                                                                                        |       | 3-10           |
| alkyl alcohol ethoxylate                               | [4]       | 69011-36-5  | [4]                  | Acute toxicity - Oral, Category 4 (H302)<br>Serious eye damage, Category 1 (H318)                                                                                                                                       |       | 1-3            |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 931-292-6 | 308062-28-4 | 01-211949006<br>1-47 | Acute toxicity - Oral, Category 4 (H302)<br>Skin irritation, Category 2 (H315)<br>Serious eye damage, Category 1 (H318)<br>Acute aquatic toxicity, Category 1 M=1 (H400)<br>Chronic aquatic toxicity, Category 2 (H411) |       | 1-3            |

**Specific concentration limits**

phosphoric acid:

- Serious eye damage, Category 1 (H318) >= 25% > Eye irritation, Category 2 (H319) >= 10%
- Skin corrosion, Category 1B (H314) >= 25% > Skin irritation, Category 2 (H315) >= 10%

nitric acid :

- Skin corrosion, Category 1A (H314) >= 70% > Skin corrosion, Category 1A (H314) >= 20% > Skin corrosion, Category 1B (H314) >= 5% > Skin irritation, Category 2 (H315) >= 1%

alkyl alcohol ethoxylate:

- Serious eye damage, Category 1 (H318) >= 10% > Eye irritation, Category 2 (H319) >= 1%

Workplace exposure limit(s), if available, are listed in subsection 8.1.

ATE, if available, are listed in section 11.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

**SECTION 4: First aid measures****4.1 Description of first aid measures****General Information:**

If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

**Inhalation:**

Get medical attention or advice if you feel unwell.

**Skin contact:**

Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician.

**Eye contact:**

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

**Ingestion:**

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

**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:**

No known effects or symptoms in normal use.

**Skin contact:**

Causes severe burns.

**Eye contact:**

Causes severe or permanent damage.

**Ingestion:**

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

**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**

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**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. Wear eye/face protection. Wear suitable gloves.

**6.2 Environmental precautions**

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

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

Ensure adequate ventilation. Dyke to collect large liquid spills. Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

**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****Measures to prevent fire and explosions:**

No special precautions required.

**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advice on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not breathe vapours. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep cool. Keep away from heat and direct sunlight.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**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)   | Long term value(s)  | Short term value(s)            |
|-----------------|---------------------|--------------------------------|
| phosphoric acid | 1 mg/m <sup>3</sup> | 2 mg/m <sup>3</sup>            |
| nitric acid     |                     | 1 ppm<br>2.6 mg/m <sup>3</sup> |

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/DMEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s)   | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-----------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| phosphoric acid | -                          | -                             | -                         | 0.1                          |

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|                                                        |   |   |   |      |
|--------------------------------------------------------|---|---|---|------|
| nitric acid                                            | - | - | - | -    |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | - | - | - | -    |
| alkyl alcohol ethoxylate                               | - | - | - | -    |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | - | - | - | 0.44 |

## DNEL/DMEL 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) |
|--------------------------------------------------------|----------------------------|------------------------------------------|---------------------------|-----------------------------------------|
| phosphoric acid                                        | No data available          | -                                        | No data available         | -                                       |
| nitric acid                                            | -                          | -                                        | -                         | -                                       |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | -                          | -                                        | No data available         | -                                       |
| alkyl alcohol ethoxylate                               | -                          | -                                        | -                         | -                                       |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available          | -                                        | - %                       | 11                                      |

## DNEL/DMEL 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) |
|--------------------------------------------------------|----------------------------|------------------------------------------|---------------------------|-----------------------------------------|
| phosphoric acid                                        | No data available          | -                                        | No data available         | -                                       |
| nitric acid                                            | -                          | -                                        | -                         | -                                       |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | -                          | -                                        | No data available         | -                                       |
| alkyl alcohol ethoxylate                               | -                          | -                                        | -                         | -                                       |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available          | -                                        | - %                       | 5.5                                     |

## DNEL/DMEL inhalatory exposure - Worker (mg/m³)

| Ingredient(s)                                          | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|--------------------------------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| phosphoric acid                                        | -                          | -                             | 2.92                      | 1                            |
| nitric acid                                            | -                          | -                             | 2.6                       | -                            |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | -                          | -                             | -                         | -                            |
| alkyl alcohol ethoxylate                               | -                          | -                             | -                         | -                            |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | -                          | -                             | -                         | 6.2                          |

## DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

| Ingredient(s)                                          | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|--------------------------------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| phosphoric acid                                        | -                          | -                             | 0.73                      | -                            |
| nitric acid                                            | -                          | -                             | 1.3                       | -                            |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | -                          | -                             | -                         | -                            |
| alkyl alcohol ethoxylate                               | -                          | -                             | -                         | -                            |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | -                          | -                             | -                         | 1.53                         |

## 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) |
|--------------------------------------------------------|-----------------------------|------------------------------|---------------------|-------------------------------|
| phosphoric acid                                        | -                           | -                            | -                   | -                             |
| nitric acid                                            | -                           | -                            | -                   | -                             |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | -                           | -                            | -                   | -                             |
| alkyl alcohol ethoxylate                               | -                           | -                            | -                   | -                             |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 0.0335                      | 0.00335                      | 0.0335              | 24                            |

## Environmental exposure - PNEC, continued

| Ingredient(s)                                          | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|--------------------------------------------------------|------------------------------|--------------------------|--------------|-------------|
| phosphoric acid                                        | -                            | -                        | -            | -           |
| nitric acid                                            | -                            | -                        | -            | -           |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | -                            | -                        | -            | -           |
| alkyl alcohol ethoxylate                               | -                            | -                        | -            | -           |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 5.24                         | 0.524                    | 1.02         | -           |

## 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. 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

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**Appropriate organisational controls:** contact, the personal protection equipment as described in this section is not required.  
No special requirements under normal use conditions.

**REACH use scenarios considered for the undiluted product:**

|                                 | SWED - Sector-specific worker exposure description | LCS | PROC    | Duration (min) | ERC  |
|---------------------------------|----------------------------------------------------|-----|---------|----------------|------|
| Automatic transfer and dilution | AISE_SWED_IS_8b_1                                  | IS  | PROC 8b | 60             | ERC4 |

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

Safety glasses or goggles (EN 16321). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

**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:  $\geq 480$  min Material thickness:  $\geq 0.7$  mm  
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time:  $\geq 30$  min Material thickness:  $\geq 0.4$  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. Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

**Respiratory protection:**

Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

*Recommended safety measures for handling the diluted product:*

**Recommended maximum concentration (% w/w):** 10

**Appropriate engineering controls:** Provide a good standard of general ventilation. Ensure that foam equipment does not generate respirable particles.

**Appropriate organisational controls:** No special requirements under normal use conditions. Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available.

**REACH use scenarios considered for the diluted product:**

|                                                 | SWED              | LCS | PROC    | Duration (min) | ERC   |
|-------------------------------------------------|-------------------|-----|---------|----------------|-------|
| Manual application by dipping, soaking, pouring | AISE_SWED_IS_13_3 | IS  | PROC 13 | 240            | ERC4  |
| Automatic application in a dedicated system     | AISE_SWED_IS_4_1  | IS  | PROC 4  | 480            | ERC8a |
| Foam spraying                                   | AISE_SWED_IS_7_4  | IS  | PROC 7  | 480            | ERC4  |

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

Safety glasses or goggles (EN 16321) are always recommended for foam applications.

**Hand protection:**

Chemical-resistant protective gloves (EN 374) are always recommended for foam applications. 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:  $\geq 480$  min Material thickness:  $\geq 0.7$  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**

Information in this section refers to the product, unless it is specifically stated that substance data is listed

**Physical state:** Liquid

**Colour:** Clear , Pale , from Colourless to Yellow

**Odour:** Product specific

**Odour threshold:** Not applicable

**Melting point/freezing point (°C):** Not determined

**Initial boiling point and boiling range (°C):** Not determined

**Method / remark**

Not relevant to classification of this product  
See substance data

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Substance data, boiling point

| Ingredient(s)                                          | Value (°C)        | Method           | Atmospheric pressure (hPa) |
|--------------------------------------------------------|-------------------|------------------|----------------------------|
| phosphoric acid                                        | 158               | Method not given | 1013                       |
| nitric acid                                            | 116               | Method not given |                            |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | No data available |                  |                            |
| alkyl alcohol ethoxylate                               | > 200             | Method not given |                            |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | > 100             | Method not given |                            |

## Method / remark

**Flammability (solid, gas):** Not applicable to liquids**Flammability (liquid):** Not flammable.**Flash point (°C):** > 100 °C**Sustained combustion:** Not applicable.

(UN Manual of Tests and Criteria, section 32, L.2)

**Lower and upper explosion limit/flammability limit (%):** Not determined

closed cup

See substance data

Substance data, flammability or explosive limits, if available:

## Method / remark

**Autoignition temperature:** Not determined**Decomposition temperature:** Not applicable.**pH:** < 2 (neat)**Dilution pH:** < 2 (10 %)**Kinematic viscosity:** Not determined**Solubility in / Miscibility with water:** Fully miscible

ISO 4316

ISO 4316

Substance data, solubility in water

| Ingredient(s)                                          | Value (g/l)       | Method           | Temperature (°C) |
|--------------------------------------------------------|-------------------|------------------|------------------|
| phosphoric acid                                        | Soluble           |                  |                  |
| nitric acid                                            | > 500             | Method not given |                  |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | No data available |                  |                  |
| alkyl alcohol ethoxylate                               | Soluble           | Method not given | 20               |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 409.5 Soluble     | Method not given | 20               |

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

## Method / remark

**Vapour pressure:** Not determined

See substance data

Substance data, vapour pressure

| Ingredient(s)                                          | Value (Pa) | Method           | Temperature (°C) |
|--------------------------------------------------------|------------|------------------|------------------|
| phosphoric acid                                        | 4          | Method not given | 20               |
| nitric acid                                            | 770        | Method not given | 20               |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | < 0.15     |                  | 20               |
| alkyl alcohol ethoxylate                               | Negligible | Method not given | 20-25            |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | < 10       | Method not given | 25               |

## Method / remark

**Relative density:** ≈ 1.19 (20 °C)**Relative vapour density:** No data available.**Particle characteristics:** No data available.

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

## 9.2 Other information

## 9.2.1 Information with regard to physical hazard classes

**Explosive properties:** Not explosive.**Oxidising properties:** Not oxidising.**Corrosion to metals:** Corrosive

Not explosive, based on substance properties

Weight of evidence

## 9.2.2 Other safety characteristics

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

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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**

May be corrosive to metals. Reacts with alkali. Keep away from products containing chlorine-based bleaching agents or sulphites.

**10.6 Hazardous decomposition products**

Nitrogen oxides (NOx).

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Mixture data:

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): >2000

ATE - Inhalatory, vapours (mg/l): >20

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) | ATE Oral (mg/kg) |
|--------------------------------------------------------|------------------|-------------------|---------|------------------------|-------------------|------------------|
| phosphoric acid                                        | LD <sub>50</sub> | > 300-5000        | Rat     | OECD 423 (EU B.1 tris) |                   | 2600             |
| nitric acid                                            |                  | No data available |         |                        |                   | Not established  |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | LD <sub>50</sub> | 300-2000          | Rat     | Weight of evidence     |                   | 1000             |
| alkyl alcohol ethoxylate                               | LD <sub>50</sub> | > 300-2000        | Rat     | OECD 423 (EU B.1 tris) |                   | 25000            |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | LD <sub>50</sub> | 1064              | Rat     | OECD 401 (EU B.1)      |                   | 33000            |

Acute dermal toxicity

| Ingredient(s)                                          | Endpoint         | Value (mg/kg)     | Species | Method            | Exposure time (h) | ATE Dermal (mg/kg) |
|--------------------------------------------------------|------------------|-------------------|---------|-------------------|-------------------|--------------------|
| phosphoric acid                                        | LD <sub>50</sub> | 2740              | Rabbit  | Method not given  |                   | Not established    |
| nitric acid                                            |                  | No data available |         |                   |                   | Not established    |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | LD <sub>50</sub> | > 2000            |         | Method not given  |                   | Not established    |
| alkyl alcohol ethoxylate                               | LD <sub>50</sub> | > 2000            | Rabbit  | Method not given  |                   | Not established    |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | LD <sub>50</sub> | > -               | Rat     | OECD 402 (EU B.3) |                   | Not established    |

Acute inhalative toxicity

| Ingredient(s)                                          | Endpoint         | Value (mg/l)      | Species | Method            | Exposure time (h) |
|--------------------------------------------------------|------------------|-------------------|---------|-------------------|-------------------|
| phosphoric acid                                        | LC <sub>50</sub> | 850               | Rat     | Method not given  | 2                 |
| nitric acid                                            | LC <sub>50</sub> | > 2.65 (vapour)   | Rat     | OECD 403 (EU B.2) |                   |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               |                  | No data available |         |                   |                   |
| alkyl alcohol ethoxylate                               |                  | No data available |         |                   |                   |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides |                  | No data available |         |                   |                   |

Acute inhalative toxicity, continued

| Ingredient(s)                                          | ATE - inhalation, dust (mg/l) | ATE - inhalation, mist (mg/l) | ATE - inhalation, vapour (mg/l) | ATE - inhalation, gas (mg/l) |
|--------------------------------------------------------|-------------------------------|-------------------------------|---------------------------------|------------------------------|
| phosphoric acid                                        | Not established               | Not established               | Not established                 | Not established              |
| nitric acid                                            | Not established               | Not established               | 2.65                            | Not established              |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | Not established               | Not established               | Not established                 | Not established              |
| alkyl alcohol ethoxylate                               | Not established               | Not established               | Not established                 | Not established              |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | Not established               | Not established               | Not established                 | Not established              |

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**Irritation and corrosivity**

## Skin irritation and corrosivity

| <b>Ingredient(s)</b>                                   | <b>Result</b> | <b>Species</b> | <b>Method</b>     | <b>Exposure time</b> |
|--------------------------------------------------------|---------------|----------------|-------------------|----------------------|
| phosphoric acid                                        | Corrosive     | Rabbit         | OECD 404 (EU B.4) |                      |
| nitric acid                                            | Corrosive     | Rabbit         | Method not given  |                      |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | Not irritant  | Rabbit         | Method not given  |                      |
| alkyl alcohol ethoxylate                               | Not irritant  | Rabbit         | OECD 404 (EU B.4) |                      |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | Irritant      | Rabbit         | OECD 404 (EU B.4) |                      |

## Eye irritation and corrosivity

| <b>Ingredient(s)</b>                                   | <b>Result</b> | <b>Species</b> | <b>Method</b>     | <b>Exposure time</b> |
|--------------------------------------------------------|---------------|----------------|-------------------|----------------------|
| phosphoric acid                                        | Severe damage | Rabbit         | Method not given  |                      |
| nitric acid                                            | Corrosive     |                | Method not given  |                      |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | Severe damage | Rabbit         | Method not given  |                      |
| alkyl alcohol ethoxylate                               | Severe damage | Rabbit         | Method not given  |                      |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | Severe damage | Rabbit         | OECD 405 (EU B.5) |                      |

## Respiratory tract irritation and corrosivity

| <b>Ingredient(s)</b>                                   | <b>Result</b>     | <b>Species</b> | <b>Method</b> | <b>Exposure time</b> |
|--------------------------------------------------------|-------------------|----------------|---------------|----------------------|
| phosphoric acid                                        | No data available |                |               |                      |
| nitric acid                                            | No data available |                |               |                      |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | No data available |                |               |                      |
| alkyl alcohol ethoxylate                               | No data available |                |               |                      |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available |                |               |                      |

**Sensitisation**

## Sensitisation by skin contact

| <b>Ingredient(s)</b>                                   | <b>Result</b>     | <b>Species</b> | <b>Method</b>                    | <b>Exposure time (h)</b> |
|--------------------------------------------------------|-------------------|----------------|----------------------------------|--------------------------|
| phosphoric acid                                        | Not sensitising   | Human          | Human experience                 |                          |
| nitric acid                                            | No data available |                |                                  |                          |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | Not sensitising   | Guinea pig     | Method not given                 |                          |
| alkyl alcohol ethoxylate                               | Not sensitising   | Guinea pig     | Method not given                 |                          |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | Not sensitising   | Guinea pig     | OECD 406 (EU B.6) / Buehler test |                          |

## Sensitisation by inhalation

| <b>Ingredient(s)</b>                                   | <b>Result</b>     | <b>Species</b> | <b>Method</b> | <b>Exposure time</b> |
|--------------------------------------------------------|-------------------|----------------|---------------|----------------------|
| phosphoric acid                                        | No data available |                |               |                      |
| nitric acid                                            | No data available |                |               |                      |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | No data available |                |               |                      |
| alkyl alcohol ethoxylate                               | No data available |                |               |                      |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available |                |               |                      |

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

## Mutagenicity

| <b>Ingredient(s)</b>                                   | <b>Result (in-vitro)</b>                            | <b>Method (in-vitro)</b>                                 | <b>Result (in-vivo)</b>                             | <b>Method (in-vivo)</b> |
|--------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------|-------------------------|
| phosphoric acid                                        | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma) | No data available                                   |                         |
| nitric acid                                            | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13)                                    | No data available                                   |                         |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | No evidence for mutagenicity, negative test results | Method not given                                         | No evidence for mutagenicity, negative test results | Method not given        |
| alkyl alcohol ethoxylate                               | No evidence of genotoxicity, negative test results  | Method not given                                         | No evidence of genotoxicity, negative test results  | Method not given        |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13)                                    | No data available                                   |                         |

## Carcinogenicity

| <b>Ingredient(s)</b>                     | <b>Effect</b>                                          |
|------------------------------------------|--------------------------------------------------------|
| phosphoric acid                          | No data available                                      |
| nitric acid                              | No evidence for carcinogenicity, negative test results |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No evidence for carcinogenicity, weight-of-evidence    |
| alkyl alcohol ethoxylate                 | No evidence for carcinogenicity, weight-of-evidence    |

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|                                                        |                                                        |
|--------------------------------------------------------|--------------------------------------------------------|
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No evidence for carcinogenicity, negative test results |
|--------------------------------------------------------|--------------------------------------------------------|

## Toxicity for reproduction

| Ingredient(s)                                          | Endpoint | Specific effect        | Value (mg/kg bw/d) | Species | Method             | Exposure time | Remarks and other effects reported                                           |
|--------------------------------------------------------|----------|------------------------|--------------------|---------|--------------------|---------------|------------------------------------------------------------------------------|
| phosphoric acid                                        | NOAEL    | Developmental toxicity | 410                | Rat     | OECD 422, oral     | 10 day(s)     | No evidence for reproductive toxicity No evidence for developmental toxicity |
| nitric acid                                            | NOAEL    | Developmental toxicity | 1500               | Rat     | OECD 422, oral     | 28 day(s)     | Not toxic for reproduction                                                   |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               |          |                        | No data available  |         | Literature         |               | No evidence for teratogenic effects No evidence for reproductive toxicity    |
| alkyl alcohol ethoxylate                               | NOAEL    | Teratogenic effects    | > 50               | Rat     | Not known          |               | No known significant effects or critical hazards                             |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | NOAEL    | Teratogenic effects    | 25                 | Rat     | Non guideline test |               |                                                                              |

## 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 |
|--------------------------------------------------------|----------|--------------------|---------|----------------|----------------------|--------------------------------------|
| phosphoric acid                                        | NOAEL    | 250                | Rat     | OECD 422, oral |                      |                                      |
| nitric acid                                            | NOAEL    | 1500               | Rat     | OECD 422, oral | 28                   |                                      |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               |          | No data available  |         |                |                      |                                      |
| alkyl alcohol ethoxylate                               |          | No data available  |         |                |                      |                                      |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | NOAEL    | -                  |         | OECD 422, oral |                      |                                      |

## Sub-chronic dermal toxicity

| Ingredient(s)                                          | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|--------------------------------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| phosphoric acid                                        |          | No data available  |         |        |                      |                                      |
| nitric acid                                            |          | No data available  |         |        |                      |                                      |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               |          | No data available  |         |        |                      |                                      |
| alkyl alcohol ethoxylate                               |          | No data available  |         |        |                      |                                      |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides |          | 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 |
|--------------------------------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| phosphoric acid                                        |          | No data available  |         |        |                      |                                      |
| nitric acid                                            |          | No data available  |         |        |                      |                                      |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               |          | No data available  |         |        |                      |                                      |
| alkyl alcohol ethoxylate                               |          | No data available  |         |        |                      |                                      |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides |          | 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 |
|--------------------------------------------------------|----------------|----------|--------------------|---------|------------------|---------------|--------------------------------------|--------|
| phosphoric acid                                        |                |          | No data available  |         |                  |               |                                      |        |
| nitric acid                                            |                |          | No data available  |         |                  |               |                                      |        |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               |                |          | No data available  |         |                  |               |                                      |        |
| alkyl alcohol ethoxylate                               | Oral           | NOAEL    | 50                 | Rat     | Method not given | 24 month(s)   | Effects on organ weights             |        |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides |                |          | No data available  |         |                  |               |                                      |        |

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## STOT-single exposure

| Ingredient(s)                                          | Affected organ(s) |
|--------------------------------------------------------|-------------------|
| phosphoric acid                                        | No data available |
| nitric acid                                            | No data available |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | No data available |
| alkyl alcohol ethoxylate                               | Not applicable    |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available |

## STOT-repeated exposure

| Ingredient(s)                                          | Affected organ(s) |
|--------------------------------------------------------|-------------------|
| phosphoric acid                                        | No data available |
| nitric acid                                            | No data available |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | No data available |
| alkyl alcohol ethoxylate                               | Not applicable    |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available |

## Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

## Potential adverse health effects and symptoms

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

## 11.2 Information on other hazards

## 11.2.1 Endocrine disrupting properties

Endocrine disrupting properties - Human data, if available:

## 11.2.2 Other information

No other relevant information available.

## SECTION 12: Ecological information

## 12.1 Toxicity

No 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) |
|--------------------------------------------------------|------------------|--------------|----------------------------|---------------------|-------------------|
| phosphoric acid                                        | LC <sub>50</sub> | 138          | <i>Gambusia affinis</i>    | Method not given    | 96                |
| nitric acid                                            | LC <sub>50</sub> | 12.5         | <i>Gambusia affinis</i>    | Method not given    | 96                |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | LC <sub>50</sub> | > 1-10       | <i>Brachydanio rerio</i>   | Method not given    | 96                |
| alkyl alcohol ethoxylate                               | LC <sub>50</sub> | > 1 - 10     | <i>Cyprinus carpio</i>     | OECD 203 (EU C.1)   | 96                |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | LC <sub>50</sub> | 2.67-3.46    | <i>Pimephales promelas</i> | Similar to OECD 203 | 96                |

Aquatic short-term toxicity - crustacea

| Ingredient(s)                                          | Endpoint         | Value (mg/l) | Species                     | Method             | Exposure time (h) |
|--------------------------------------------------------|------------------|--------------|-----------------------------|--------------------|-------------------|
| phosphoric acid                                        | EC <sub>50</sub> | > 100        | <i>Daphnia magna Straus</i> | OECD 202 (EU C.2)  | 48                |
| nitric acid                                            | EC <sub>50</sub> | 8609         | <i>Daphnia magna Straus</i> | Non guideline test | 24                |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | EC <sub>50</sub> | > 1-10       | <i>Daphnia magna Straus</i> | Method not given   | 48                |
| alkyl alcohol ethoxylate                               | EC <sub>50</sub> | 1 - 10       | <i>Daphnia magna Straus</i> | OECD 202, static   | 48                |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | EC <sub>50</sub> | 3.1          | <i>Daphnia magna Straus</i> | OECD 202, static   | 48                |

Aquatic short-term toxicity - algae

| Ingredient(s)   | Endpoint         | Value (mg/l)      | Species                        | Method            | Exposure time (h) |
|-----------------|------------------|-------------------|--------------------------------|-------------------|-------------------|
| phosphoric acid | EC <sub>50</sub> | > 100             | <i>Desmodesmus subspicatus</i> | OECD 201 (EU C.3) | 72                |
| nitric acid     |                  | No data available |                                |                   |                   |

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|                                                        |                                |        |                                        |                  |    |
|--------------------------------------------------------|--------------------------------|--------|----------------------------------------|------------------|----|
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | EC <sub>50</sub>               | > 1-10 | <i>Desmodesmus subspicatus</i>         | Method not given | 72 |
| alkyl alcohol ethoxylate                               | EC <sub>50</sub>               | 1 - 10 | <i>Desmodesmus subspicatus</i>         | OECD 201, static | 72 |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | E <sub>r</sub> C <sub>50</sub> | 0.143  | <i>Pseudokirchneriella subcapitata</i> | Method not given | 72 |

## Aquatic short-term toxicity - marine species

| Ingredient(s)                                          | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|--------------------------------------------------------|----------|-------------------|---------|--------|----------------------|
| phosphoric acid                                        |          | No data available |         |        |                      |
| nitric acid                                            |          | No data available |         |        |                      |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               |          | No data available |         |        |                      |
| alkyl alcohol ethoxylate                               |          | No data available |         |        |                      |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides |          | No data available |         |        |                      |

## Impact on sewage plants - toxicity to bacteria

| Ingredient(s)                                          | Endpoint         | Value (mg/l)      | Inoculum                | Method             | Exposure time |
|--------------------------------------------------------|------------------|-------------------|-------------------------|--------------------|---------------|
| phosphoric acid                                        | EC <sub>50</sub> | 270               | <i>Activated sludge</i> | Method not given   |               |
| nitric acid                                            |                  | No data available |                         |                    |               |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | EC <sub>50</sub> | 140               | <i>Activated sludge</i> | Method not given   |               |
| alkyl alcohol ethoxylate                               | EC <sub>10</sub> | > 10000           | <i>Activated sludge</i> | DIN 38412 / Part 8 | 17 hour(s)    |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | EC <sub>10</sub> | > -               | <i>Bacteria</i>         | Non guideline test | - hour(s)     |

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

| Ingredient(s)                                          | Endpoint         | Value (mg/l)      | Species                    | Method           | Exposure time | Effects observed |
|--------------------------------------------------------|------------------|-------------------|----------------------------|------------------|---------------|------------------|
| phosphoric acid                                        |                  | No data available |                            |                  |               |                  |
| nitric acid                                            | LD <sub>50</sub> | 8226              | <i>Oncorhynchus mykiss</i> | Method not given | 96 hour(s)    |                  |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               |                  | No data available |                            |                  |               |                  |
| alkyl alcohol ethoxylate                               |                  | No data available |                            |                  |               |                  |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | NOEC             | 0.42              | <i>Pimephales promelas</i> | Method not given | 302 day(s)    |                  |

## Aquatic long-term toxicity - crustacea

| Ingredient(s)                                          | Endpoint         | Value (mg/l)      | Species              | Method                 | Exposure time | Effects observed |
|--------------------------------------------------------|------------------|-------------------|----------------------|------------------------|---------------|------------------|
| phosphoric acid                                        |                  | No data available |                      |                        |               |                  |
| nitric acid                                            |                  | No data available |                      |                        |               |                  |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | EC <sub>10</sub> | > 0.1-1           | <i>Daphnia sp.</i>   | OECD 211               |               |                  |
| alkyl alcohol ethoxylate                               |                  | No data available |                      |                        |               |                  |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | NOEC             | 0.7               | <i>Daphnia magna</i> | OECD 211, flow-through | 21 day(s)     |                  |

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

| Ingredient(s)                                          | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|--------------------------------------------------------|----------|---------------------------|---------|--------|----------------------|------------------|
| phosphoric acid                                        |          | No data available         |         |        |                      |                  |
| nitric acid                                            |          | No data available         |         |        |                      |                  |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               |          | No data available         |         |        |                      |                  |
| alkyl alcohol ethoxylate                               |          | No data available         |         |        |                      |                  |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides |          | No data available         |         |        |                      |                  |

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**Terrestrial toxicity**

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

| Ingredient(s)            | Endpoint | Value (mg/kg dw soil) | Species               | Method | Exposure time (days) | Effects observed |
|--------------------------|----------|-----------------------|-----------------------|--------|----------------------|------------------|
| phosphoric acid          |          | No data available     |                       |        |                      |                  |
| nitric acid              |          | No data available     |                       |        |                      |                  |
| alkyl alcohol ethoxylate | NOEC     | 220                   | <i>Eisenia fetida</i> |        |                      |                  |

Terrestrial toxicity - plants, if available:

| Ingredient(s)            | Endpoint | Value (mg/kg dw soil) | Species                 | Method   | Exposure time (days) | Effects observed |
|--------------------------|----------|-----------------------|-------------------------|----------|----------------------|------------------|
| phosphoric acid          |          | No data available     |                         |          |                      |                  |
| nitric acid              |          | No data available     |                         |          |                      |                  |
| alkyl alcohol ethoxylate | NOEC     | 10                    | <i>Lepidium sativum</i> | OECD 208 |                      |                  |

Terrestrial toxicity - birds, if available:

| Ingredient(s)   | Endpoint | Value             | Species | Method | Exposure time (days) | Effects observed |
|-----------------|----------|-------------------|---------|--------|----------------------|------------------|
| phosphoric acid |          | No data available |         |        |                      |                  |
| nitric acid     |          | No data available |         |        |                      |                  |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s)   | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-----------------|----------|-----------------------|---------|--------|----------------------|------------------|
| phosphoric acid |          | No data available     |         |        |                      |                  |
| nitric acid     |          | No data available     |         |        |                      |                  |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s)   | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-----------------|----------|-----------------------|---------|--------|----------------------|------------------|
| phosphoric acid |          | No data available     |         |        |                      |                  |
| nitric acid     |          | No data available     |         |        |                      |                  |

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

| Ingredient(s)   | Half-life time    | Method | Evaluation | Remark |
|-----------------|-------------------|--------|------------|--------|
| phosphoric acid | No data available |        |            |        |
| nitric acid     | No data available |        |            |        |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s)   | Half-life time in fresh water | Method | Evaluation | Remark |
|-----------------|-------------------------------|--------|------------|--------|
| phosphoric acid | No data available             |        |            |        |
| nitric acid     | No data available             |        |            |        |

Abiotic degradation - other processes, if available:

| Ingredient(s)   | Type | Half-life time    | Method | Evaluation | Remark |
|-----------------|------|-------------------|--------|------------|--------|
| phosphoric acid |      | No data available |        |            |        |
| nitric acid     |      | No data available |        |            |        |

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s)   | Inoculum | Analytical method | DT <sub>50</sub> | Method | Evaluation                           |
|-----------------|----------|-------------------|------------------|--------|--------------------------------------|
| phosphoric acid |          |                   |                  |        | Not applicable (inorganic substance) |

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|                                                        |                          |                            |                     |           |                                      |
|--------------------------------------------------------|--------------------------|----------------------------|---------------------|-----------|--------------------------------------|
| nitric acid                                            |                          |                            |                     |           | Not applicable (inorganic substance) |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | Activated sludge, aerobe | Method not given           | > 60 % in 28 day(s) | OECD 301B | Readily biodegradable                |
| alkyl alcohol ethoxylate                               | Activated sludge, aerobe | CO <sub>2</sub> production | > 60 % in 28 day(s) | OECD 301B | Readily biodegradable                |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | Activated sludge, aerobe | CO <sub>2</sub> production | 90 % in 28 day(s)   | OECD 301B | Readily biodegradable                |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s)   | Medium & Type | Analytical method | DT <sub>50</sub> | Method | Evaluation        |
|-----------------|---------------|-------------------|------------------|--------|-------------------|
| phosphoric acid |               |                   |                  |        | No data available |
| nitric acid     |               |                   |                  |        | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s)   | Medium & Type | Analytical method | DT <sub>50</sub> | Method | Evaluation        |
|-----------------|---------------|-------------------|------------------|--------|-------------------|
| phosphoric acid |               |                   |                  |        | No data available |
| nitric acid     |               |                   |                  |        | No data available |

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log K<sub>ow</sub>)

| Ingredient(s)                                          | Value             | Method           | Evaluation                           | Remark |
|--------------------------------------------------------|-------------------|------------------|--------------------------------------|--------|
| phosphoric acid                                        | No data available |                  | No bioaccumulation expected          |        |
| nitric acid                                            | -2.3              | Method not given | Not relevant, does not bioaccumulate |        |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | 3.55              | QSAR             | No bioaccumulation expected          |        |
| alkyl alcohol ethoxylate                               | 4.09              | QSAR             | No bioaccumulation expected          |        |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | < -               | Method not given | No bioaccumulation expected          |        |

Bioconcentration factor (BCF)

| Ingredient(s)                                          | Value             | Species | Method | Evaluation                  | Remark |
|--------------------------------------------------------|-------------------|---------|--------|-----------------------------|--------|
| phosphoric acid                                        | No data available |         |        | No bioaccumulation expected |        |
| nitric acid                                            | No data available |         |        |                             |        |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | No data available |         |        |                             |        |
| alkyl alcohol ethoxylate                               | -                 |         |        | No bioaccumulation expected |        |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available |         |        |                             |        |

### 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s)                                          | Adsorption coefficient Log K <sub>oc</sub> | Desorption coefficient Log K <sub>oc</sub> (des) | Method | Soil/sediment type | Evaluation                                       |
|--------------------------------------------------------|--------------------------------------------|--------------------------------------------------|--------|--------------------|--------------------------------------------------|
| phosphoric acid                                        | No data available                          |                                                  |        |                    | Potential for mobility in soil, soluble in water |
| nitric acid                                            | No data available                          |                                                  |        |                    | Mobile in aqueous environment                    |
| Alcohols, C10-16, ethoxylated (7-<15 EO)               | No data available                          |                                                  |        |                    |                                                  |
| alkyl alcohol ethoxylate                               | No data available                          |                                                  |        |                    | Immobile in soil or sediment                     |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available                          |                                                  |        |                    | Low mobility 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 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

### 12.7 Other adverse effects

No other adverse effects known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste from residues / unused products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

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European Waste Catalogue: 20 01 14\* - acids.

## Empty packaging

## Recommendation:

Dispose of observing national or local regulations.

## Suitable cleaning agents:

Water, if necessary with cleaning agent.

## SECTION 14: Transport information



### Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number: 2031

14.2 UN proper shipping name:

Nitric acid , solution

Nitric acid , solution

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: II

14.5 Environmental hazards:

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

14.7 Maritime transport in bulk according to IMO instruments: The product is not transported in bulk tankers.

### Other relevant information:

#### ADR

Classification code: C1

Tunnel restriction code: (E)

Hazard identification number: 80

#### IMO/IMDG

EmS: F-A, S-B

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

#### EU regulations:

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 648/2004 - Detergents regulation
- Regulation (EU) 2019/1148 - Explosive Precursors
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

#### Ingredients according to EC Detergents Regulation 648/2004

non-ionic surfactants

5 - 15 %

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.

Seveso - Classification: Not classified

### 15.2 Chemical safety assessment

## Acipusfoam VF59

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*

**SDS code:** MS1001739

**Version:** 02.1

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**Reason for revision:**

Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 3, 16

**Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- H272 - May intensify fire; oxidiser.
- H290 - May be corrosive to metals.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H331 - Toxic if inhaled.
- H400 - Very toxic to aquatic life.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

**End of Safety Data Sheet**