



Acipusfoam VF59

Revision: 2018-01-25
First release : 2016-07-13

Version: 01.2

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

1.1 Product identifier

Trade name: Acipusfoam VF59

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

Identified uses:

For professional and industrial use only.

AISE-P806 - Foam cleaner. Semi-automatic with venting process

AISE-P807 - Foam cleaner. Semi-automatic without venting process

Soaking bath. Manual process (AISE_CS_I01 & AISE_CS_I10)

Uses advised against: Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, Maarssebroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

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Ulusal Zehir Danışma Merkezi (UZEM): 114

Acil Sağlık Hizmetleri: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Corr. 1B (H314)

EUH071

Met. Corr. 1 (H290)

2.2 Label elements



Signal word: Danger.

Contains nitric acid (Nitric Acid).

Hazard statements:

H314 - Causes severe skin burns and eye damage.

EUH071 - Corrosive to the respiratory tract.

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

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

3.2 Mixtures

| Ingredient(s) | EC number | CAS number | Classification | Notes | Weight percent |
|--|-----------|------------|--|-------|----------------|
| phosphoric acid | 231-633-2 | 7664-38-2 | Skin Corr. 1B (H314) Met. Corr. 1 (H290) | | 20-30 |
| nitric acid | 231-714-2 | 7697-37-2 | Ox. Liq. 2 (H272) Skin Corr. 1A (H314) EUH071 Met. Corr. 1 (H290) | | 3-10 |
| alkyl alcohol ethoxylate | Polymer* | 64425-86-1 | Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) | | 3-10 |
| alkyl alcohol ethoxylate | Polymer* | 69011-36-5 | Acute Tox. 4 (H302) Eye Dam. 1 (H318) | | 1-3 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 931-292-6 | - | Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411) | | 1-3 |

* Polymer.

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

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

Inhalation:

Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE, doctor or physician.

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 re-use. 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:

Corrosive to the respiratory tract.

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

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

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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). Ensure adequate ventilation.

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.

Advices 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 hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe vapours. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Keep only in original container. Store in a closed container.

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 ³ | 2 mg/m ³ |
| nitric acid | | 1 ppm 2.6 mg/m ³ |

Biological limit values, if available:

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:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

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.

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). 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

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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 (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 (%): 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.

Personal protective equipment

Eye / face protection: Safety glasses or goggles (EN 166) 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: >= 480 min
Material thickness: >= 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

| | Method / remark |
|---|--|
| Physical State: Liquid | |
| Colour: Clear, Pale, Yellow | |
| Odour: Product specific | |
| Odour threshold: Not applicable | |
| pH: < 2 (neat) | |
| Melting point/freezing point (°C): Not determined | Not relevant to classification of this product |
| Initial boiling point and boiling range (°C): Not determined | See substance data |

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 | |
| alkyl alcohol ethoxylate | No data available | | |
| alkyl alcohol ethoxylate | > 200 | Method not given | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | > 100 | Method not given | |

| | Method / remark |
|--|--|
| Flash point (°C): Not applicable. | |
| Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2) | |
| Evaporation rate: Not determined | Not relevant to classification of this product |
| Flammability (solid, gas): Not applicable to liquids | |
| Upper/lower flammability limit (%): Not determined | See substance data |

Substance data, flammability or explosive limits, if available:

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Vapour pressure: Not determined

Method / remark

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 |
| alkyl alcohol ethoxylate | No data available | | |
| alkyl alcohol ethoxylate | Negligible | Method not given | 20-25 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | < 10 | Method not given | 25 |

Method / remark

Not applicable, no vapour pressure data available

Vapour density: Not determined

Relative density: ≈ 1.19 (20 °C)

Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|--|-------------------|------------------|------------------|
| phosphoric acid | Soluble | | |
| nitric acid | > 500 | Method not given | |
| alkyl alcohol ethoxylate | 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

Autoignition temperature: Not determined

Decomposition temperature: Not applicable.

Viscosity: Not determined

Explosive properties: Not explosive.

Oxidising properties: Not oxidising.

Not relevant to classification of this product
Not explosive, based on substance properties
Not oxidising, based on substance properties

9.2 Other information

Surface tension (N/m): Not determined

Corrosion to metals: Corrosive

Not relevant to classification of this product
Weight of evidence

Substance data, dissociation constant, if 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 alkali and metals. Keep away from products containing chlorine-based bleaching agents or sulphites.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:.

Relevant calculated ATE(s):

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ATE - Oral (mg/kg): >5000

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) |
|--|------------------|-------------------|---------|------------------------|-------------------|
| phosphoric acid | LD ₅₀ | 2600 | Rat | OECD 423 (EU B.1 tris) | |
| nitric acid | | No data available | | | |
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol ethoxylate | LD ₅₀ | > 300 - 2000 | Rat | OECD 423 (EU B.1 tris) | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | LD ₅₀ | > 300 - 2000 | Rat | OECD 401 (EU B.1) | |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|--|------------------|-------------------|---------|-------------------|-------------------|
| phosphoric acid | LD ₅₀ | 2740 | Rabbit | Method not given | |
| nitric acid | | No data available | | | |
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol ethoxylate | LD ₅₀ | > 2000 | Rabbit | Method not given | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | LD ₅₀ | > 5000 | Rat | OECD 402 (EU B.3) | |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|-------------------|---------|-------------------|-------------------|
| phosphoric acid | LC ₅₀ | 850 | Rat | Method not given | 2 |
| nitric acid | LC ₅₀ | > 2.65 | Rat | OECD 403 (EU B.2) | |
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol ethoxylate | | No data available | | | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|-------------------|---------|-------------------|---------------|
| phosphoric acid | Corrosive | Rabbit | OECD 404 (EU B.4) | |
| nitric acid | Corrosive | Rabbit | Method not given | |
| alkyl alcohol ethoxylate | No data available | | | |
| 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

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|-------------------|---------|-------------------|---------------|
| phosphoric acid | Severe damage | Rabbit | Method not given | |
| nitric acid | Corrosive | | Method not given | |
| alkyl alcohol ethoxylate | No data available | | | |
| 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

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|-------------------|---------|--------|---------------|
| phosphoric acid | No data available | | | |
| nitric acid | No data available | | | |
| alkyl alcohol ethoxylate | 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

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

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| | | | |
|--|-------------------|------------|----------------------------------|
| phosphoric acid | Not sensitising | Human | Human experience |
| nitric acid | No data available | | |
| alkyl alcohol ethoxylate | No data available | | |
| 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

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|-------------------|---------|--------|---------------|
| phosphoric acid | No data available | | | |
| nitric acid | No data available | | | |
| alkyl alcohol ethoxylate | 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

| Ingredient(s) | Result (in-vitro) | Method (in-vitro) | Result (in-vivo) | Method (in-vivo) |
|--|---|--|--|------------------|
| 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 | |
| alkyl alcohol ethoxylate | No data available | | No data available | |
| 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

| Ingredient(s) | Effect |
|--|--|
| phosphoric acid | No data available |
| nitric acid | No evidence for carcinogenicity, negative test results |
| alkyl alcohol ethoxylate | No data available |
| alkyl alcohol ethoxylate | No evidence for carcinogenicity, weight-of-evidence |
| 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 |
| alkyl alcohol ethoxylate | | | No data available | | | | |
| 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 | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | NOAEL | 13 | | OECD 422, oral | | |

Sub-chronic dermal toxicity

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure | Specific effects and organs |
|---------------|----------|-------|---------|--------|----------|-----------------------------|
|---------------|----------|-------|---------|--------|----------|-----------------------------|

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| | (mg/kg bw/d) | time (days) | affected |
|--|-------------------|-------------|----------|
| phosphoric acid | No data available | | |
| nitric acid | No data available | | |
| alkyl alcohol ethoxylate | 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 | | | | |
| alkyl alcohol ethoxylate | | 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 | | | | | |
| alkyl alcohol ethoxylate | | | 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 | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|--|-------------------|
| phosphoric acid | No data available |
| nitric acid | No data available |
| alkyl alcohol ethoxylate | 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 |
| alkyl alcohol ethoxylate | 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. If relevant, see section 9 for dynamic viscosity and relative density of the product.

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

No data is available on the mixture.

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

Aquatic short-term toxicity

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Aquatic short-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|-------------------|-------------------------|-------------------|-------------------|
| phosphoric acid | LC ₅₀ | 138 | <i>Gambusia affinis</i> | Method not given | 96 |
| nitric acid | LC ₅₀ | 12.5 | <i>Gambusia affinis</i> | Method not given | 96 |
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol ethoxylate | LC ₅₀ | 1 - 10 | <i>Cyprinus carpio</i> | OECD 203 (EU C.1) | 96 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | LC ₅₀ | > 2.67 - 3.46 | <i>Fish</i> | OECD 203, static | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|-------------------|-----------------------------|--------------------|-------------------|
| phosphoric acid | EC ₅₀ | > 100 | <i>Daphnia magna Straus</i> | OECD 202 (EU C.2) | 48 |
| nitric acid | EC ₅₀ | 8609 | <i>Daphnia magna Straus</i> | Non guideline test | 24 |
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol ethoxylate | EC ₅₀ | 1 - 10 | <i>Daphnia magna Straus</i> | OECD 202, static | 48 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | EC ₅₀ | 3.1 | <i>Daphnia magna Straus</i> | OECD 202 (EU C.2) | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|-------------------|--------------------------------|-------------------|-------------------|
| phosphoric acid | EC ₅₀ | > 100 | <i>Desmodesmus subspicatus</i> | OECD 201 (EU C.3) | 72 |
| nitric acid | | No data available | | | - |
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol ethoxylate | EC ₅₀ | 1 - 10 | <i>Desmodesmus subspicatus</i> | OECD 201, static | 72 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | EC ₅₀ | 0.1428 | <i>Not specified</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 | | | - |
| alkyl alcohol ethoxylate | | 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 ₅₀ | 270 | <i>Activated sludge</i> | Method not given | |
| nitric acid | | No data available | | | |
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol ethoxylate | EC ₁₀ | > 10000 | <i>Activated sludge</i> | DIN 38412 / Part 8 | 17 hour(s) |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | EC ₁₀ | > 24 | <i>Bacteria</i> | Non guideline test | 18 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 ₅₀ | 8226 | <i>Oncorhynchus mykiss</i> | Method not given | 96 hour(s) | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data | | | | |

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| | | | | | | |
|--|------|-------------------|----------------------|--|------------|--|
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | NOEC | available 0.42 | <i>Not specified</i> | | 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 | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | NOEC | 0.7 | <i>Daphnia magna</i> | Method not given | 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 | | | - | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | - | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | - | |

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> | | - | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | - | |

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 | - | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | - | |

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 | | | - | |
| alkyl alcohol ethoxylate | | No data available | | | - | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | 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 | | | - | |

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|--|--|-------------------|--|--|---|--|
| nitric acid | | No data available | | | - | |
| alkyl alcohol ethoxylate | | No data available | | | - | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | 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 | | | - | |
| alkyl alcohol ethoxylate | | No data available | | | - | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | - | |

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|--|----------|----------------------------|---------------------|-----------|--------------------------------------|
| phosphoric acid | | | | | Not applicable (inorganic substance) |
| nitric acid | | | | | Not applicable (inorganic substance) |
| alkyl alcohol ethoxylate | | | | OECD 301B | Readily biodegradable |
| alkyl alcohol ethoxylate | | CO ₂ production | > 60 % in 28 day(s) | OECD 301B | Readily biodegradable |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | CO ₂ production | 90% in 28 day(s) | OECD 301B | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|--|-------------------|--------------------|--------------------------------------|--------|
| phosphoric acid | No data available | | No bioaccumulation expected | |
| nitric acid | -2.3 | Method not given | Not relevant, does not bioaccumulate | |
| alkyl alcohol ethoxylate | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 0.93 | (EC) 440/2008, A.8 | 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 | | | | |
| alkyl alcohol ethoxylate | No data available | | | | |
| alkyl alcohol ethoxylate | No data available | | | | |
| 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 _{oc} | Desorption coefficient Log K _{oc} (des) | Method | Soil/sediment type | Evaluation |
|-----------------|--|--|--------|--------------------|--|
| phosphoric acid | No data available | | | | Potential for mobility in soil, soluble in water |

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| | | | | | |
|--|-------------------|--|--|--|-------------------------------|
| nitric acid | No data available | | | | Mobile in aqueous environment |
| alkyl alcohol ethoxylate | 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 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.

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: 2031

14.2 UN proper shipping name:

Nitric acid, solution

14.3 Transport hazard class(es):

Class: 8

Label(s): 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 Transport in bulk according to Annex II of MARPOL and the IBC Code: 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

National regulations

• 11 Aralık 2013 tarihli, 28848 Sayılı, Maddelerin Ve Karışımların Sınıflandırılması, Etiketlenmesi Ve Ambalajlanması Hakkında Yönetmelik.

Ingredients according to EC Detergents Regulation 648/2004

non-ionic surfactants

5 - 15 %

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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

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Full text of the H and EUH phrases mentioned in section 3:

- 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.
- H400 - Very toxic to aquatic life.
- H411 - Toxic to aquatic life with long lasting effects.
- EUH071 - Corrosive to the respiratory tract.

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
- ATE - Acute Toxicity Estimate

End of Safety Data Sheet