

ZENITH 6Q FOAMING BATHROOM CLEANER

Revision: 2020-12-18

Version: 01.0

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

1.1 Product identifier

Trade name: ZENITH 6Q FOAMING BATHROOM CLEANER

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

Identified uses:

For professional use only.

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

1.3 Details of the supplier of the safety data sheet

Diversey Ltd, Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Contact details

Zenith Hygiene Group
A1M Business Centre Dixons Hill Road Welham Green
Herts AL9 7JE
www.zhgplc.com
01707 270260
helpdesk@zhgplc.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye Irrit. 2 (H319)

Aquatic Chronic 3 (H412)

2.2 Label elements



Signal word: Warning.

Hazard statements:

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

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 | REACH number | Classification | Notes | Weight percent |
|---------------------------------|-----------|------------|------------------|-----------------------------|-------|----------------|
| (2-methoxymethylethoxy)propanol | 252-104-2 | 34590-94-8 | 01-2119450011-60 | Not classified as hazardous | | 1-3 |

ZENITH 6Q FOAMING BATHROOM CLEANER

| | | | | | |
|---|-----------|------------|------------------|--|-------|
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | 931-329-6 | - | 01-2119490100-53 | Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411) | 1-3 |
| Alcohols, C10-16, ethoxylated | [4] | 68002-97-1 | [4] | Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) | 1-3 |
| alkyldimethylbenzylammoniumchloride | 270-325-2 | 68424-85-1 | [6] | Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Eye Dam. 1 (H318) Aquatic Acute 1 M=10 (H400) Aquatic Chronic 1 (H410) | 0.1-1 |

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.

[6] Exempted: biocidal active. See Article 15a 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

| | |
|--|--|
| Inhalation: | Get medical attention or advice if you feel unwell. |
| Skin contact: | Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention. |
| 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. If irritation occurs and persists, get medical attention. |
| Ingestion: | Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell. |
| 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: | No known effects or symptoms in normal use. |
| Eye contact: | Causes severe irritation. |
| Ingestion: | No known effects or symptoms in normal use. |

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). 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.

ZENITH 6Q FOAMING BATHROOM CLEANER

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. Wash hands before breaks and at the end of workday. Use only with adequate ventilation. Do not mix with other products. 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. 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) | UK - Long term value(s) | UK - Short term value(s) |
|---------------------------------|---------------------------------|----------------------------------|
| (2-methoxymethylethoxy)propanol | 50 ppm 308 mg/m ³ | 150 ppm 924 mg/m ³ |

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

DNEL/DMEL and PNEC values**Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| (2-methoxymethylethoxy)propanol | - | - | - | 36 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | - | - | - | 6.25 |
| Alcohols, C10-16, ethoxylated | No data available | No data available | No data available | No data available |
| alkyldimethylbenzylammoniumchloride | - | - | - | 3.4 |

DNEL dermal exposure - Worker

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|----------------------------|--|------------------------------|---|
| (2-methoxymethylethoxy)propanol | No data available | - | No data available | 283 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | - | - | 0.09 mg/cm ² skin | 4.16 |
| Alcohols, C10-16, ethoxylated | No data available | No data available | No data available | No data available |
| alkyldimethylbenzylammoniumchloride | - | - | - | 5.7 |

DNEL dermal exposure - Consumer

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|----------------------------|--|-------------------------------|---|
| (2-methoxymethylethoxy)propanol | No data available | - | No data available | 15 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | No data available | - | 0.056 mg/cm ² skin | 2.5 |
| Alcohols, C10-16, ethoxylated | No data available | No data available | No data available | No data available |
| alkyldimethylbenzylammoniumchloride | - | - | - | 3.4 |

DNEL inhalatory exposure - Worker (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| (2-methoxymethylethoxy)propanol | - | - | - | - |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | - | - | - | - |
| Alcohols, C10-16, ethoxylated | - | - | - | - |
| alkyldimethylbenzylammoniumchloride | - | - | - | - |

ZENITH 6Q FOAMING BATHROOM CLEANER

| | | | | |
|---|-------------------|-------------------|-------------------|-------------------|
| (2-methoxymethylethoxy)propanol | - | - | - | 308 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | - | - | - | 73.4 |
| Alcohols, C10-16, ethoxylated | No data available | No data available | No data available | No data available |
| alkyldimethylbenzylammoniumchloride | - | - | - | 3.96 |

DNEL inhalatory exposure - Consumer (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| (2-methoxymethylethoxy)propanol | - | - | - | 37.2 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | - | - | - | 21.73 |
| Alcohols, C10-16, ethoxylated | No data available | No data available | No data available | No data available |
| alkyldimethylbenzylammoniumchloride | - | - | - | 1.64 |

Environmental exposure

Environmental exposure - PNEC

| Ingredient(s) | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|---|-----------------------------|------------------------------|---------------------|-------------------------------|
| (2-methoxymethylethoxy)propanol | 19 | 1.9 | 190 | 4168 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | 0.007 | 0.0007 | 0.024 | 830 |
| Alcohols, C10-16, ethoxylated | No data available | No data available | No data available | No data available |
| alkyldimethylbenzylammoniumchloride | 0.0009 | 0.00096 | 0.00016 | 0.4 |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m ³) |
|---|------------------------------|--------------------------|-------------------|--------------------------|
| (2-methoxymethylethoxy)propanol | 70.2 | 7.02 | 2.74 | 190 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | 0.0424 | - | 0.0189 | - |
| Alcohols, C10-16, ethoxylated | No data available | No data available | No data available | No data available |
| alkyldimethylbenzylammoniumchloride | 12.27 | 13.09 | 7 | - |

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: Provide a good standard of general ventilation.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel. Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available.

Personal protective equipment

Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).

Hand protection: No special requirements under normal use conditions.

Body protection: No special requirements under normal use conditions.

Respiratory protection: Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided. Trigger spray bottle application: No special requirements under normal use conditions. Apply technical measures to comply with the occupational exposure limits, if available

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 , Green | |
| Odour: Product specific | |
| Odour threshold: Not applicable | |
| pH > 3 (neat) | ISO 4316 |
| 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 |

ZENITH 6Q FOAMING BATHROOM CLEANER

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|---|-------------------|------------------|----------------------------|
| (2-methoxymethylethoxy)propanol | 189.6 | Method not given | 1013 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | > 100 | Method not given | |
| Alcohols, C10-16, ethoxylated | No data available | | |
| alkyldimethylbenzylammoniumchloride | > 107 | Method not given | |

Method / remark

Flammability (liquid): Not flammable.**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**Lower and upper explosion limit/flammability limit (%)** Not determined

See substance data

Substance data, flammability or explosive limits, if available:

| Ingredient(s) | Lower limit (% vol) | Upper limit (% vol) |
|-------------------------------------|---------------------|---------------------|
| (2-methoxymethylethoxy)propanol | 1.1 | 14 |
| alkyldimethylbenzylammoniumchloride | - | - |

Method / remark

Vapour pressure: Not determined

See substance data

Substance data, vapour pressure

| Ingredient(s) | Value (Pa) | Method | Temperature (°C) |
|---|-------------------|------------------|------------------|
| (2-methoxymethylethoxy)propanol | 5500 | Method not given | 20 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | 0.00014 | Method not given | 20 |
| Alcohols, C10-16, ethoxylated | No data available | | |
| alkyldimethylbenzylammoniumchloride | 2300 | Method not given | 20 |

Method / remark

Vapour density: Not determined

Not relevant to classification of this product

Relative density: ≈ 1.00 (20 °C)

OECD 109 (EU A.3)

Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|---|-------------------|------------------|------------------|
| (2-methoxymethylethoxy)propanol | Soluble | Method not given | 20 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | 0.015-0.030 | Method not given | 20 |
| Alcohols, C10-16, ethoxylated | No data available | | |
| alkyldimethylbenzylammoniumchloride | Soluble | Method not given | |

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

Method / remark

Autoignition temperature: 99**Decomposition temperature:** Not applicable.**Viscosity:** Not determined**Explosive properties:** Not explosive.**Oxidising properties:** Not oxidising.**9.2 Other information****Surface tension (N/m):** Not determined

Not relevant to classification of this product

Corrosion to metals: Not corrosive

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

ZENITH 6Q FOAMING BATHROOM CLEANER

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. 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):

ATE - Oral (mg/kg): >2000

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 (mg/kg) |
|---|------------------|---------------|---------|-------------------|-------------------|-----------------|
| (2-methoxymethylethoxy)propanol | LD ₅₀ | > 5000 | Rat | OECD 401 (EU B.1) | | 5000 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | LD ₅₀ | > 2000 | Rat | OECD 401 (EU B.1) | | Not established |
| Alcohols, C10-16, ethoxylated | LD ₅₀ | 1700 | Rat | Method not given | | 1700 |
| alkyldimethylbenzylammoniumchloride | LD ₅₀ | 398 | Rat | | | 398 |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE (mg/kg) |
|---|------------------|---------------|---------|------------------|-------------------|-----------------|
| (2-methoxymethylethoxy)propanol | LD ₅₀ | 9510 | Rabbit | Method not given | | 9510 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | LD ₅₀ | > 2000 | Rabbit | Method not given | | Not established |
| Alcohols, C10-16, ethoxylated | LD ₅₀ | > 2000 | Rat | Method not given | | Not established |
| alkyldimethylbenzylammoniumchloride | LD ₅₀ | 3412 | Rabbit | Method not given | | 3412 |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|-----------------|--|---------|--------|-------------------|
| (2-methoxymethylethoxy)propanol | LC ₀ | > 1.667 (vapour) No mortality observed | Rat | | 7 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | | No data available | | | |
| Alcohols, C10-16, ethoxylated | | No data available | | | |
| alkyldimethylbenzylammoniumchloride | | 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) |
|---|-------------------------------|-------------------------------|---------------------------------|------------------------------|
| (2-methoxymethylethoxy)propanol | Not established | Not established | Not established | Not established |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | Not established | Not established | Not established | Not established |
| Alcohols, C10-16, ethoxylated | Not established | Not established | Not established | Not established |
| alkyldimethylbenzylammoniumchloride | Not established | Not established | Not established | Not established |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|--------------|---------|-------------------|---------------|
| (2-methoxymethylethoxy)propanol | Not irritant | | Method not given | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | Irritant | Rabbit | OECD 404 (EU B.4) | 4 hour(s) |

ZENITH 6Q FOAMING BATHROOM CLEANER

| | | | |
|-------------------------------------|---------------|--------|-------------------|
| Alcohols, C10-16, ethoxylated | Mild irritant | Rabbit | OECD 404 (EU B.4) |
| alkyldimethylbenzylammoniumchloride | Corrosive | Rabbit | Method not given |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---------------------------|---------|-------------------|---------------|
| (2-methoxymethylethoxy)propanol | Not corrosive or irritant | | Method not given | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| Alcohols, C10-16, ethoxylated | No data available | | | |
| alkyldimethylbenzylammoniumchloride | Severe damage | | Method not given | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| (2-methoxymethylethoxy)propanol | No data available | | | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | No data available | | | |
| Alcohols, C10-16, ethoxylated | No data available | | | |
| alkyldimethylbenzylammoniumchloride | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|-----------------|------------|----------------------------------|-------------------|
| (2-methoxymethylethoxy)propanol | Not sensitising | | Method not given | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| Alcohols, C10-16, ethoxylated | Not sensitising | Guinea pig | Method not given | |
| alkyldimethylbenzylammoniumchloride | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| (2-methoxymethylethoxy)propanol | No data available | | | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | No data available | | | |
| Alcohols, C10-16, ethoxylated | No data available | | | |
| alkyldimethylbenzylammoniumchloride | 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) |
|---|---|---|--|--------------------|
| (2-methoxymethylethoxy)propanol | No evidence for mutagenicity, negative test results | Method not given | No data available | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | No evidence of genotoxicity, negative test results | OECD 474 (EU B.12) |
| Alcohols, C10-16, ethoxylated | No data available | | No data available | |
| alkyldimethylbenzylammoniumchloride | No evidence of genotoxicity, negative test results | OECD 471 (EU B.12/13) OECD 476 OECD 473 | No evidence of genotoxicity, negative test results | OECD 474 (EU B.12) |

Carcinogenicity

| Ingredient(s) | Effect |
|---|--|
| (2-methoxymethylethoxy)propanol | No evidence for carcinogenicity, negative test results |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | No evidence for carcinogenicity, negative test results |
| Alcohols, C10-16, ethoxylated | No data available |
| alkyldimethylbenzylammoniumchloride | No data available |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---|----------|---------------------------------------|--------------------|---------|--------------------------|---------------|---------------------------------------|
| (2-methoxymethylethoxy)propanol | | | No data available | | | | No evidence for reproductive toxicity |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | NOAEL | Teratogenic effects Maternal toxicity | > 1000 | Rat | OECD 414 (EU B.31), oral | | |
| Alcohols, C10-16, ethoxylated | | | No data available | | | | |
| alkyldimethylbenzylammoniumchloride | | | No data available | | | | |

ZENITH 6Q FOAMING BATHROOM CLEANER

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|----------|--------------------|---------|-------------------|----------------------|--------------------------------------|
| (2-methoxymethylethoxy)propanol | | No data available | | | | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | NOAEL | > 750 | Rat | OECD 407 (EU B.7) | 28 | |
| Alcohols, C10-16, ethoxylated | | No data available | | | | |
| alkyldimethylbenzylammoniumchloride | | No data available | | | | |

Sub-chronic dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|----------|--------------------|---------|------------------|----------------------|--------------------------------------|
| (2-methoxymethylethoxy)propanol | | No data available | | | | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | NOEL | 50 | Rat | Method not given | 90 | |
| Alcohols, C10-16, ethoxylated | | No data available | | | | |
| alkyldimethylbenzylammoniumchloride | | No data available | | | | |

Sub-chronic inhalation toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| (2-methoxymethylethoxy)propanol | | No data available | | | | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | | No data available | | | | |
| Alcohols, C10-16, ethoxylated | | No data available | | | | |
| alkyldimethylbenzylammoniumchloride | | No data available | | | | |

Chronic toxicity

| Ingredient(s) | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|---|----------------|----------|--------------------|---------|------------------|---------------|--------------------------------------|--------|
| (2-methoxymethylethoxy)propanol | | | No data available | | | | | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | Oral | NOEL | > 50 | Rat | Method not given | 90 day(s) | | |
| Alcohols, C10-16, ethoxylated | | | No data available | | | | | |
| alkyldimethylbenzylammoniumchloride | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|-------------------|
| (2-methoxymethylethoxy)propanol | No data available |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | No data available |
| Alcohols, C10-16, ethoxylated | No data available |
| alkyldimethylbenzylammoniumchloride | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|-------------------|
| (2-methoxymethylethoxy)propanol | No data available |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | No data available |
| Alcohols, C10-16, ethoxylated | No data available |
| alkyldimethylbenzylammoniumchloride | 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.

SECTION 12: Ecological information**12.1 Toxicity**

ZENITH 6Q FOAMING BATHROOM CLEANER

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) |
|---|------------------|-------------------|----------------------------|-----------------------|-------------------|
| (2-methoxymethylethoxy)propanol | LC ₅₀ | > 1000 | <i>Poecilia reticulata</i> | Method not given | 96 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | LC ₅₀ | 2.4 | <i>Oncorhynchus mykiss</i> | OECD 203, semi-static | 96 |
| Alcohols, C10-16, ethoxylated | | No data available | | | |
| alkyldimethylbenzylammoniumchloride | LC ₅₀ | 0.515 | <i>Fish</i> | Method not given | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|-----------------------------|------------------|-------------------|
| (2-methoxymethylethoxy)propanol | EC ₅₀ | 1919 | <i>Daphnia magna Straus</i> | Method not given | 48 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | EC ₅₀ | 3.2 | <i>Daphnia magna Straus</i> | OECD 202, static | 48 |
| Alcohols, C10-16, ethoxylated | | No data available | | | |
| alkyldimethylbenzylammoniumchloride | EC ₅₀ | 0.016 | <i>Daphnia</i> | Method not given | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|--------------------------------|-------------------|----------------------------------|-------------------|-------------------|
| (2-methoxymethylethoxy)propanol | EC ₅₀ | > 969 | <i>Selenastrum capricornutum</i> | Method not given | 72 |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | E _r C ₅₀ | 3.9 | <i>Desmodesmus subspicatus</i> | OECD 201 (EU C.3) | 72 |
| Alcohols, C10-16, ethoxylated | | No data available | | | |
| alkyldimethylbenzylammoniumchloride | EC ₅₀ | 0.02 | <i>Selenastrum capricornutum</i> | OECD 201 (EU C.3) | 72 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|----------|-------------------|---------|--------|----------------------|
| (2-methoxymethylethoxy)propanol | | No data available | | | - |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | | No data available | | | - |
| Alcohols, C10-16, ethoxylated | | No data available | | | |
| alkyldimethylbenzylammoniumchloride | | No data available | | | - |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|------------------|-------------------|---------------------------|------------------|---------------|
| (2-methoxymethylethoxy)propanol | EC ₁₀ | 4168 | <i>Pseudomonas putida</i> | Method not given | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | EC ₅₀ | > 1000 | | Method not given | 0.5 hour(s) |
| Alcohols, C10-16, ethoxylated | | No data available | | | |
| alkyldimethylbenzylammoniumchloride | EC ₂₀ | 5 | <i>Activated sludge</i> | OECD 209 | 0.5 hour(s) |

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|----------------------------|----------|---------------|------------------|
| (2-methoxymethylethoxy)propanol | | No data available | | | | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | NOEC | 1 | <i>Oncorhynchus mykiss</i> | OECD 203 | 96 hour(s) | |
| Alcohols, C10-16, ethoxylated | | No data available | | | | |
| alkyldimethylbenzylammoniumchloride | | No data available | | | | |

ZENITH 6Q FOAMING BATHROOM CLEANER

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|----------------------|------------------|---------------|------------------|
| (2-methoxymethylethoxy)propanol | NOEC | > 0.5 | <i>Daphnia magna</i> | Method not given | 22 day(s) | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | NOEC | 1 | <i>Daphnia magna</i> | OECD 202 | 48 hour(s) | |
| Alcohols, C10-16, ethoxylated | | No data available | | | | |
| alkyldimethylbenzylammoniumchloride | NOEC | 0.025 | <i>Daphnia magna</i> | OECD 211 | 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 |
|---|----------|---------------------------|---------|--------|----------------------|------------------|
| (2-methoxymethylethoxy)propanol | | No data available | | | - | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | | No data available | | | - | |
| Alcohols, C10-16, ethoxylated | | No data available | | | | |
| alkyldimethylbenzylammoniumchloride | | 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 |
|---|----------|-----------------------|---------|--------|----------------------|------------------|
| (2-methoxymethylethoxy)propanol | | No data available | | | - | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | | No data available | | | - | |
| alkyldimethylbenzylammoniumchloride | | No data available | | | - | |

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|----------|-----------------------|---------|--------|----------------------|------------------|
| (2-methoxymethylethoxy)propanol | | No data available | | | - | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | | No data available | | | - | |
| alkyldimethylbenzylammoniumchloride | | No data available | | | - | |

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|---|----------|-------------------|---------|--------|----------------------|------------------|
| (2-methoxymethylethoxy)propanol | | No data available | | | - | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | | No data available | | | - | |
| alkyldimethylbenzylammoniumchloride | | No data available | | | - | |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|----------|-----------------------|---------|--------|----------------------|------------------|
| (2-methoxymethylethoxy)propanol | | No data available | | | - | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | | No data available | | | - | |
| alkyldimethylbenzylammoniumchloride | | No data available | | | - | |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|----------|-----------------------|---------|--------|----------------------|------------------|
| (2-methoxymethylethoxy)propanol | | No data available | | | - | |
| amides, C8-18 (even numbered) and C18-unsatd., N, | | No data | | | - | |

ZENITH 6Q FOAMING BATHROOM CLEANER

| | | | | | |
|-------------------------------------|--|-------------------|--|--|---|
| N-bis(hydroxyethyl) | | available | | | |
| alkyldimethylbenzylammoniumchloride | | 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 |
|---------------------------------|----------------|------------------|-------------------------|--------|
| (2-methoxymethylethoxy)propanol | < 1 day(s) | Method not given | Rapidly photodegradable | |

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|---|--------------------------|-------------------|---------------------|-------------|-----------------------|
| (2-methoxymethylethoxy)propanol | | Oxygen depletion | 75 % in 28 day(s) | OECD 301F | Readily biodegradable |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | | | > 60 % in 28 day(s) | OECD 301D | Readily biodegradable |
| Alcohols, C10-16, ethoxylated | Activated sludge, aerobe | Oxygen depletion | 83% in 28 day(s) | OECD 301D | Readily biodegradable |
| alkyldimethylbenzylammoniumchloride | | Oxygen depletion | > 60% | Read across | 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 |
|---|-----------|------------------|-----------------------------------|--------|
| (2-methoxymethylethoxy)propanol | 1.01 | Method not given | Low potential for bioaccumulation | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | 3.52 | Method not given | Low potential for bioaccumulation | |
| Alcohols, C10-16, ethoxylated | 3.55-6.79 | | | |
| alkyldimethylbenzylammoniumchloride | 2.88 | OECD 107 | No bioaccumulation expected | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|-------------------|---------|------------------|-----------------------------------|--------|
| (2-methoxymethylethoxy)propanol | No data available | | | | |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | 65.36 | | Method not given | Low potential for bioaccumulation | |
| Alcohols, C10-16, ethoxylated | < 500 | | | | |
| alkyldimethylbenzylammoniumchloride | 0.5 | | Method not given | No bioaccumulation expected | |

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s) | Adsorption coefficient Log Koc | Desorption coefficient Log Koc(des) | Method | Soil/sediment type | Evaluation |
|---|--------------------------------|-------------------------------------|--------|--------------------|-------------------------------------|
| (2-methoxymethylethoxy)propanol | No data available | | | | High potential for mobility in soil |
| amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) | 241 | | | | |
| Alcohols, C10-16, ethoxylated | No data available | | | | |
| alkyldimethylbenzylammoniumchloride | No data available | | | | |

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

ZENITH 6Q FOAMING BATHROOM CLEANER

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 29* - detergents containing dangerous substances.

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: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

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

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

UFI: KQMG-M18R-5007-GV05

Ingredients according to EC Detergents Regulation 648/2004

non-ionic surfactants, cationic surfactants
perfumes

< 5 %

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

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: MS1005091

Version: 01.0

Revision: 2020-12-18

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.

ZENITH 6Q FOAMING BATHROOM CLEANER**Full text of the H and EUH phrases mentioned in section 3:**

- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.

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
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- OECD - Organization for Economic Cooperation and Development

End of Safety Data Sheet