

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

1.1. Product identifier

Product form : Mixture
Product name : BioHygiene Toilet Concentrate POUCH
UFI : UVCV-61A5-P00M-WX80
Product code : BH180

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

Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Concentrated toilet cleaner

Uses advised against

Restrictions on use : Not for direct application to food stuffs, Not for oral consumption

1.3. Details of the supplier of the safety data sheet

BioHygiene
Unit A – D 12 , Pant Glas Industrial Estate
Bedwas
Caerphilly
CF83 8GE
UK
T +44 (0) 29 2067 4094
info@biohygiene.co.uk

1.4. Emergency telephone number

Emergency number : +44 (0) 29 2067 4094 (8am to 5pm)

| Country/Area | Organisation/Company | Address | Emergency number | Comment |
|----------------|---------------------------|---------|------------------|------------------|
| United Kingdom | NHS 111/NHS 24/NHS Direct | | 111 0845 4647 | or call a doctor |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes skin and eye irritation. Presents no particular risk to the environment.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP)

: Warning

BioHygiene Toilet Concentrate POUCH

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

| | |
|--------------------------------|--|
| Hazard statements (CLP) | : H315 - Causes skin irritation. H319 - Causes serious eye irritation. |
| Precautionary statements (CLP) | : P264 - Wash hands thoroughly after handling. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. |

2.3. Other hazards

This mixture is not considered to be persistent, bioaccumulating and toxic (PBT)

This mixture is not considered to be persistent, bioaccumulating and toxic (PVB)

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

| Component | |
|---|-----------------------|
| Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 | Formic acid (64-18-6) |

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|------------------|--|
| Citric acid | CAS-No.: 5949-29-1 EC-No.: 201-069-1 EC Index-No.: 607-750-00-3 REACH-no: 01-2119457026-42-XXXX | $\geq 10 - < 20$ | Eye Irrit. 2, H319 STOT SE 3, H335 |
| Formic acid substance with a Community workplace exposure limit | CAS-No.: 64-18-6 EC-No.: 200-579-1 EC Index-No.: 607-001-00-0 REACH-no: 01-2119491174-37-XXXX | $\geq 1 - < 5$ | Skin Corr. 1, H314 |
| Alcohols, C12-14(even numbered), ethoxylated, sulfates, sodium salts (< 2.5EO) | CAS-No.: 68891-38-3 EC-No.: 500-234-8 REACH-no: 01-2119488639-16-XXXX | $\geq 1 - < 5$ | Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412 |
| C08-10 Alkyl glucoside | CAS-No.: 68515-73-1 EC-No.: 500-220-1 REACH-no: 01-2119488530-36-XXXX | $\geq 1 - < 5$ | Eye Dam. 1, H318 |
| L-lactic acid | CAS-No.: 79-33-4 EC-No.: 201-196-2 EC Index-No.: 607-743-00-5 REACH-no: 01-2119474164-39 | $\geq 1 - < 5$ | Skin Corr. 1C, H314 Eye Dam. 1, H318 |

BioHygiene Toilet Concentrate POUCH

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

| Specific concentration limits: | | |
|--|--|--|
| Name | Product identifier | Specific concentration limits (%) |
| Formic acid | CAS-No.: 64-18-6 EC-No.: 200-579-1 EC Index-No.: 607-001-00-0 REACH-no: 01-2119491174-37-XXXX | (2 ≤ C < 10) Skin Irrit. 2; H315 (2 ≤ C < 10) Eye Irrit. 2; H319 (10 ≤ C < 90) Skin Corr. 1B; H314 (90 ≤ C ≤ 100) Skin Corr. 1A; H314 |
| Alcohols, C12-14(even numbered), ethoxylated, sulfates, sodium salts (< 2.5EO) | CAS-No.: 68891-38-3 EC-No.: 500-234-8 REACH-no: 01-2119488639-16-XXXX | (5 ≤ C < 9.9) Eye Irrit. 2; H319 (10 ≤ C < 100) Eye Dam. 1; H318 |

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Rinse mouth out with water. Call a POISON CENTER/doctor if you feel unwell. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|-------------------------------------|--|
| Symptoms/effects after inhalation | : May cause slight temporary irritation. |
| Symptoms/effects after skin contact | : May cause skin irritation. Redness, itching. |
| Symptoms/effects after eye contact | : May cause eye irritation. redness, itching, tears. |
| Symptoms/effects after ingestion | : May cause irritation to the digestive tract. |

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|------------------------------|---------------------|
| Suitable extinguishing media | : Dry powder. Foam. |
|------------------------------|---------------------|

5.2. Special hazards arising from the substance or mixture

| | |
|--|--|
| Fire hazard | : Not flammable. |
| Explosion hazard | : Product is not explosive. |
| Reactivity in case of fire | : Product is not explosive. |
| Hazardous decomposition products in case of fire | : On heating irritating fumes to eyes or skin may be produced. |

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|---|
| General measures | : Always wash hands after handling the product. |
|------------------|---|

BioHygiene Toilet Concentrate POUCH

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

For non-emergency personnel

Protective equipment : No special requirement . Avoid contact with skin.
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.
Measures in case of dust release : Not applicable (aqueous liquid).

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

This product does not present any particular risk for the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Stop leak without risks if possible.
Methods for cleaning up : Wash the spillage site with large amounts of water.
Other information : Small amount of unwanted product may be flushed with water to sewer.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Ensure spraying away from persons.
Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes.
Hygiene measures : Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place. Store in a closed container. Keep cool.

7.3. Specific end use(s)

Cleaner & descaler liquid for washrooms.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

| Formic acid (64-18-6) | |
|--|---------------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Formic acid |
| IOEL TWA | 9 mg/m³ |
| | 5 ppm |
| Regulatory reference | COMMISSION DIRECTIVE 2006/15/EC |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Formic acid |
| WEL TWA (OEL TWA) | 9.6 mg/m³ |
| | 5 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

BioHygiene Toilet Concentrate POUCH

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

DNEL and PNEC

| | |
|---|---------------------------|
| Formic acid (64-18-6) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, inhalation | 9.5 mg/m ³ |
| Long-term - local effects, inhalation | 9.5 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, inhalation | 3 mg/m ³ |
| Long-term - local effects, inhalation | 3 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 2 mg/l |
| PNEC aqua (marine water) | 0.2 mg/l |
| PNEC aqua (intermittent, freshwater) | 1 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 13.4 mg/kg dwt |
| PNEC sediment (marine water) | 1.34 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 1.5 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 7.2 mg/l |
| Alcohols, C12-14(even numbered), ethoxylated, sulfates, sodium salts (< 2.5EO) (68891-38-3) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 2750 mg/kg bodyweight/day |
| Long-term - local effects, dermal | 132 µg/cm ² |
| Long-term - systemic effects, inhalation | 175 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 15 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 52 mg/m ³ |
| Long-term - systemic effects, dermal | 1650 mg/kg bodyweight/day |
| Long-term - local effects, dermal | 79 µg/cm ² |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.24 mg/l |
| PNEC aqua (marine water) | 0.024 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.071 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0.9168 mg/kg dwt |
| PNEC sediment (marine water) | 0.0917 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 7.5 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 10 g/l |

BioHygiene Toilet Concentrate POUCH

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

| | |
|--|-----------------------------|
| Citric acid (5949-29-1) | |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.44 mg/l |
| PNEC aqua (marine water) | 0.044 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 34.6 mg/kg dwt |
| PNEC sediment (marine water) | 3.46 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 33.1 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 1000 mg/l |
| C08-10 Alkyl glucoside (68515-73-1) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 595000 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 420 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 35.7 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 124 mg/m ³ |
| Long-term - systemic effects, dermal | 357000 mg/kg bodyweight/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.176 mg/l |
| PNEC aqua (marine water) | 0.0176 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.27 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 1516 mg/kg dwt |
| PNEC sediment (marine water) | 0.152 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0.654 mg/kg dwt |
| PNEC (Oral) | |
| PNEC oral (secondary poisoning) | 111.11 mg/kg food |
| PNEC (STP) | |
| PNEC sewage treatment plant | 560 mg/l |
| L-lactic acid (79-33-4) | |
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, dermal | no hazard identified |
| Acute - systemic effects, inhalation | no hazard identified |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, dermal | no hazard identified |
| Acute - systemic effects, oral | no hazard identified |

BioHygiene Toilet Concentrate POUCH

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

| L-lactic acid (79-33-4) | |
|------------------------------|----------------------|
| PNEC (Water) | |
| PNEC aqua (freshwater) | no hazard identified |
| PNEC aqua (marine water) | no hazard identified |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | no hazard identified |
| PNEC sediment (marine water) | no hazard identified |
| PNEC (STP) | |
| PNEC sewage treatment plant | no hazard identified |

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

No special requirement.

Personal protection equipment

Personal protective equipment:

No special requirement. Avoid contact with eyes, skin and clothing.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Avoid contact with eyes. Ensure spraying away from persons

Skin protection

Skin and body protection:

Wear suitable working clothes

Hand protection:

Always wash hands after handling the product. In case of repeated or prolonged contact wear gloves

| Hand protection | | | | | |
|---------------------------|----------------------|------------------|----------------|-------------|------------|
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Disposable gloves, Type A | Nitrile rubber (NBR) | 2 (> 30 minutes) | | | EN ISO 374 |
| Reusable gloves, Type A | Nitrile rubber (NBR) | 2 (> 30 minutes) | >0.38mm | | EN ISO 374 |

Respiratory protection

Respiratory protection:

Not necessary with sufficient ventilation

Thermal hazards

Thermal hazard protection:

Not required.

Environmental exposure controls

Environmental exposure controls:

No special environmental concerns.

BioHygiene Toilet Concentrate POUCH

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

Consumer exposure controls:

The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|-----------------------|
| Physical state | : Liquid |
| Colour | : Blue. |
| Appearance | : Liquid. |
| Odour | : Pleasant. |
| Odour threshold | : Not available |
| Melting point | : Not available |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Not flammable |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : Not available |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : 2.5 – 3 |
| Viscosity, kinematic | : Not available |
| Solubility | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : 1.07 – 1.075 @ 20°C |
| Relative density | : Not available |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use. Do not mix with other products.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Store away from heat/moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

BioHygiene Toilet Concentrate POUCH

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Formic acid (64-18-6)

| | |
|-----------------------|--|
| LD50 oral rat | 730 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 618 - 863 |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | 7.85 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |

Alcohols, C12-14(even numbered), ethoxylated, sulfates, sodium salts (< 2.5EO) (68891-38-3)

| | |
|-----------------|--|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat | ≥ 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other: |

Citric acid (5949-29-1)

| | |
|-----------------|---|
| LD50 oral | 5400 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 4500 - 6400 |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

C08-10 Alkyl glucoside (68515-73-1)

| | |
|--------------------|---|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method) |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

L-lactic acid (79-33-4)

| | |
|-----------------------|---|
| LD50 oral rat | < 3543 mg/kg bodyweight Female Rat |
| LD50 oral | < 4936 mg/kg bodyweight Male Rat |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPP 81-2 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | > 7.94 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |

Skin corrosion/irritation : Causes skin irritation.
pH: 2.5 – 3
Serious eye damage/irritation : Causes serious eye damage.
pH: 2.5 – 3
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Formic acid (64-18-6)

| | |
|---|---|
| NOAEL (chronic, oral, animal/male, 2 years) | 400 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other: |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |

BioHygiene Toilet Concentrate POUCH

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

| Citric acid (5949-29-1) | |
|-------------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
| STOT-repeated exposure | : Not classified |

| Formic acid (64-18-6) | |
|--|--|
| LOAEL (oral, rat, 90 days) | 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| NOAEL (oral, rat, 90 days) | 400 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| NOAEC (inhalation, rat, dust/mist/fume, 90 days) | 0.244 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |

| Alcohols, C12-14(even numbered), ethoxylated, sulfates, sodium salts (< 2.5EO) (68891-38-3) | |
|---|---|
| LOAEL (oral, rat, 90 days) | 25 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other: |
| NOAEL (oral, rat, 90 days) | > 225 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other: |

| Citric acid (5949-29-1) | |
|----------------------------|-----------------------------------|
| LOAEL (oral, rat, 90 days) | 8000 mg/kg bodyweight Animal: rat |
| NOAEL (oral, rat, 90 days) | 4000 mg/kg bodyweight Animal: rat |

| C08-10 Alkyl glucoside (68515-73-1) | |
|-------------------------------------|---|
| NOAEL (oral, rat, 90 days) | 100 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |

Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

| Formic acid (64-18-6) | |
|-----------------------|---|
| LC50 - Fish [1] | 130 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | 365 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 1240 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| LOEC (chronic) | > 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | ≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

| Alcohols, C12-14(even numbered), ethoxylated, sulfates, sodium salts (< 2.5EO) (68891-38-3) | |
|---|---|
| LC50 - Fish [1] | 7.1 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | 7.4 mg/l Test organisms (species): Daphnia magna |

BioHygiene Toilet Concentrate POUCH

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

| Alcohols, C12-14(even numbered), ethoxylated, sulfates, sodium salts (< 2.5EO) (68891-38-3) | |
|---|---|
| EC50 72h - Algae [1] | 27.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| NOEC (chronic) | 0.27 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | 0.14 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d' |

| C08-10 Alkyl glucoside (68515-73-1) | |
|-------------------------------------|---|
| LC50 - Fish [1] | 100.81 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| LC50 - Fish [2] | 170 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | > 100 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 27.22 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| EC50 72h - Algae [2] | 37 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

| L-lactic acid (79-33-4) | |
|-------------------------|---|
| LC50 - Fish [1] | 195 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | 130 – 750 mg/l Test organisms (species): Daphnia magna |
| ErC50 algae | > 2800 mg/l (Pseudokirchneriella subcapitata (algae)) |

12.2. Persistence and degradability

| BioHygiene Toilet Concentrate POUCH | |
|---|------------------------|
| Persistence and degradability | Readily biodegradable. |
| Formic acid (64-18-6) | |
| Persistence and degradability | Readily biodegradable. |
| Alcohols, C12-14(even numbered), ethoxylated, sulfates, sodium salts (< 2.5EO) (68891-38-3) | |
| Persistence and degradability | Readily biodegradable. |
| Citric acid (5949-29-1) | |
| Persistence and degradability | Readily biodegradable. |
| C08-10 Alkyl glucoside (68515-73-1) | |
| Persistence and degradability | Readily biodegradable. |
| L-lactic acid (79-33-4) | |
| Persistence and degradability | Readily biodegradable. |

12.3. Bioaccumulative potential

| BioHygiene Toilet Concentrate POUCH | |
|---|--|
| Bioaccumulative potential | The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected. |
| Formic acid (64-18-6) | |
| Bioaccumulative potential | Not potentially bioaccumulable. |
| Alcohols, C12-14(even numbered), ethoxylated, sulfates, sodium salts (< 2.5EO) (68891-38-3) | |
| Bioaccumulative potential | Not expected to Bioaccumulate. |

BioHygiene Toilet Concentrate POUCH

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

| Citric acid (5949-29-1) | |
|-------------------------------------|---------------------------------|
| Bioaccumulative potential | Not potentially bioaccumulable. |
| C08-10 Alkyl glucoside (68515-73-1) | |
| Bioaccumulative potential | Not potentially bioaccumulable. |
| L-lactic acid (79-33-4) | |
| Bioaccumulative potential | Not potentially bioaccumulable. |

12.4. Mobility in soil

| BioHygiene Toilet Concentrate POUCH | |
|-------------------------------------|------------------|
| Additional information | Soluble in water |

12.5. Results of PBT and vPvB assessment

| BioHygiene Toilet Concentrate POUCH | |
|--|--|
| This mixture is not considered to be persistent, bioaccumulating and toxic (PBT) | |
| This mixture is not considered to be persistent, bioaccumulating and toxic (PVB) | |

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|--|----------------|----------------|----------------|----------------|
| 14.1. UN number or ID number | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | | |

BioHygiene Toilet Concentrate POUCH

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | | |
|--|--|---|
| Reference code | Applicable on | Entry title or description |
| 3(b) | BioHygiene Toilet Concentrate POUCH ; Formic acid | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

UK HSE EH40 workplace exposure limits

Regulation (EC) 1907/2006 - REACH (UK amended)

BioHygiene Toilet Concentrate POUCH

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

| | |
|---------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disruptor |

BioHygiene Toilet Concentrate POUCH

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Skin Corr. 1 | Skin corrosion/irritation, Category 1 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.