

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

1.1. Product identifier

| | |
|-----------------|---|
| Product form | : Mixture |
| Trade name | : B-FRESH PINK |
| Product code | : 30550-TBV |
| Type of product | : Toilet fluid for the flush water tank for use in all chemical toilets |

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

1.2.1. Relevant identified uses

| | |
|------------------------------|--|
| Intended for general public | |
| Main use category | : Consumer use |
| Use of the substance/mixture | : Flush water additive for portable and mobile toilets |
| Function or use category | : Cleaning/washing agents and additives, Odour agents |

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

B-Fresh
Vosdonk 19
4879 NC Etten-Leur - The Netherlands
T +31 (0)76-5023792
info@b-freshcare.com - www.b-freshcare.com
E-mail address of competent person responsible for the SDS : info@b-freshcare.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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


Skin sensitisation, Category 1 H317
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available.

2.2. Label elements

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

| | |
|--------------------------------|---|
| Hazard pictograms (CLP) | :  |
| | : GHS07 |
| Signal word (CLP) | : Warning |
| Hazardous ingredients | : reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |
| Hazard statements (CLP) | : H317 - May cause an allergic skin reaction. |
| Precautionary statements (CLP) | : P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read label before use. P280 - Wear protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. |
| UFI | : KNTW-GS1K-T80R-AV35 |
| Child-resistant fastening | : Not applicable |
| Tactile warning | : Not applicable |

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|---------|--|
| bronopol (INN); 2-bromo-2-nitropropane-1,3-diol | (CAS-No.) 52-51-7 (EC-No.) 200-143-0 (EC Index-No.) 603-085-00-8 | 0,1 - 1 | Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411 |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | (CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5 | < 0,1 | Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Specific concentration limits: see section 16

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Not expected to require first aid measures. |
| First-aid measures after skin contact | : Remove contaminated clothing and shoes. Flush with plenty of water. Seek medical attention if ill effect develops. |
| First-aid measures after eye contact | : Seek medical attention if irritation develops. In case of eye contact, immediately rinse with clean water for 10-15 minutes. |
| First-aid measures after ingestion | : Rinse mouth. If swallowed, seek medical advice immediately and show this container or label. |

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

| | |
|-------------------------------------|---|
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| Chronic symptoms | : No known toxicological effects from this product. |

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

Seek medical attention if ill effect or irritation develops.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Water spray. Foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard : In case of fire, product can produce hazardous vapours and fumes.

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| Other information | : The product is not flammable. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Can be slippery on hard, smooth walking area.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

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6.2. Environmental precautions

Prevent any contamination of surface water or groundwater by the undiluted product. Product should be treated (biological waste water treatment) before entering surface waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Use sand or absorptive granules to soak up any spilled product and store it in a container. Next, rinse the contaminated surface with water and leave it to dry. Dispose of in accordance with the procedure set out in section 13.

6.4. Reference to other sections

Exposure controls and personal protection. See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container closed when not in use.
Storage temperature : 0 - 40 °C

7.3. Specific end use(s)

Toilet fluid for the flush water tank for use in all chemical toilets.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Pink.
Odour : Floral. Violet.
Odour threshold : No data available
pH : 3,9 - 4,3
Relative evaporation rate (butylacetate=1) : No data available
Melting point : 0 °C
Freezing point : No data available
Boiling point : 100 °C
Flash point : > 100 °C
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Non flammable.
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : 1 - 1,02
Solubility : Water: 100 %
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : > 70 mPa·s
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

VOC content : < 0,1 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable up to 50°C.

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10.2. Chemical stability

Stable up to 50°C. At an average temperature of 30°C, the product can be kept for several years. After a few years, there might be a slight reduction in strength.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

According to process conditions, hazardous decomposition products may be generated. Carbon dioxide. Carbon monoxide. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

| | |
|----------------------------|--|
| LD50 oral rat | 305 mg/kg |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 inhalation rat (mg/l) | >= 0,588 mg/l air Animal: rat |

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

| | |
|-----------------------------------|--|
| LD50 oral | 59 mg/kg bodyweight |
| LD50 dermal | > 75 mg/kg bodyweight |
| Skin corrosion/irritation | : Not classified pH: 3,9 - 4,3 |
| Serious eye damage/irritation | : Not classified pH: 3,9 - 4,3 |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

| | |
|---|--------------------|
| NOAEL (chronic, oral, animal/male, 2 years) | 7 mg/kg bodyweight |
|---|--------------------|

| | |
|------------------------|------------------|
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

| | |
|----------------------------|---------------------------------|
| LOAEL (oral, rat, 90 days) | 20 mg/kg bodyweight Animal: dog |
|----------------------------|---------------------------------|

| | |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

| | |
|--------------------|---|
| EC50 Daphnia 1 | 1,4 mg/l Test organisms (species): Daphnia magna |
| EC50 72h algae (1) | 0,25 mg/l Test organisms (species): Skeletonema costatum |
| EC50 72h algae (2) | 0,37 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| LOEC (chronic) | 0,88 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

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| | |
|-------------------|---|
| NOEC (chronic) | 0,27 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | 21,5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '49 d' |

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

| | |
|--------------------------------|---|
| LC50 fish 1 | 0,19 mg/l |
| EC50 Daphnia 1 | 0,1 mg/l (Daphnia Magna) (OECD 202) |
| EC50 other aquatic organisms 1 | 0,126 mg/l waterflea |
| EC50 other aquatic organisms 2 | 0,003 mg/l |
| EC50 72h algae (1) | 0,048 mg/l (Oncorhynchus mykiss) (OECD 201) |
| ErC50 (algae) | 0,048 mg/l (Pseudokirchneriella subcapitata) (OECD 201) |
| NOEC chronic fish | 0,098 mg/l 28 d (Oncorhynchus mykiss) (OECD 210) |
| NOEC chronic crustacea | 0,004 mg/l 21 d (Daphnia magna) (OECD 211) |
| NOEC chronic algae | 0,0012 mg/l 72 h (Pseudokirchneriella subcapitata) (OECD 201) |

12.2. Persistence and degradability

B-FRESH PINK

| | |
|-------------------------------|--|
| Persistence and degradability | B-Fresh Pink is readily biodegradable under anaerobic conditions (> 60%) according ISO 11734. Can be emptied in a septic tank. |
|-------------------------------|--|

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

| | |
|----------------|---|
| Biodegradation | 70 - 80 % OECD 301B Ready Biodegradability, CO2 Evolution Test, 28 days |
|----------------|---|

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

| | |
|----------------|--------------------------------------|
| Biodegradation | > 60 % OECD 301 D Closed-Bottle-Test |
|----------------|--------------------------------------|

12.3. Bioaccumulative potential

B-FRESH PINK

| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

| | |
|---------------------------|--------------------------------|
| Bioaccumulative potential | Low bioaccumulation potential. |
|---------------------------|--------------------------------|

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

| | |
|-------------------------------------|--|
| Bioconcentration factor (BCF REACH) | 3,6 (calculated) |
| Log Pow | 0,4 |
| Log Kow | -0,71 - 0,75 OECD 107 Log Kow (shake flask method) |

12.4. Mobility in soil

B-FRESH PINK

| | |
|----------------|--------------------|
| Ecology - soil | No data available. |
|----------------|--------------------|

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

| | |
|----------------|--------------------|
| Ecology - soil | No data available. |
|----------------|--------------------|

12.5. Results of PBT and vPvB assessment

Component

| | |
|---|---|
| bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII |
|---|---|

12.6. Other adverse effects

Additional information : Avoid release to the environment.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|---|------------------------------------|------------------------------------|------------------------------------|
| 14.1. UN 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 | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |

No supplementary information available

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

VOC content : < 0,1 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 16: Other information

Indication of changes:

| Section | Changed item | Change | Comments |
|---------|--------------------------------|----------|----------|
| | Supersedes | Modified | |
| | Revision date | Modified | |
| | Date of issue | Modified | |
| 2.2 | Precautionary statements (CLP) | Modified | |

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:

| | |
|---------------------------|--|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| 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. |

| Name | Product identifier | Specific concentration limits |
|---|---|---|
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | (CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5 | (0,0015 =<C < 100) Skin Sens. 1, H317 (0,06 =<C < 0,6) Eye Irrit. 2, H319 (0,06 =<C < 0,6) Skin Irrit. 2, H315 (0,6 =<C < 100) Skin Corr. 1B, H314 |

SDS EU (REACH Annex II)

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.