

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

1.1. Product identifier

Product form : Mixtures
 Trade name : AQUA KEM BLUE
 Product code : 30095-TBV
 Type of product : Additive for the waste-holding tank of mobile 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 : Additive for the waste-holding tank of 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

Manufacturer

Thetford BV
 Nijverheidsweg 29
 4879 AP Etten-Leur - The Netherlands
 T +31(0)765042200 - F +31(0)765042300
sds@thetford.eu - www.thetford-europe.com

1.4. Emergency telephone number

Emergency number : Thetford B.V. : +31 (0)76 5042200 (Reachable during office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Precautionary statements (CLP) : P102 - Keep out of reach of children
 Security closing plug for children : Not applicable
 Tactile warning : Not applicable

2.3. Other hazards

No additional information available

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]
Calcium nitrate	(CAS-No.) 10124-37-5 (EC-No.) 233-332-1	10 - 20	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

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2-BROMO-2-NITROPROPANE-1,3-DIOL	(CAS-No.) 52-51-7 (EC-No.) 200-143-0 (EC Index-No.) 603-085-00-8	1 - 2,5	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10)
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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 affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. Seek medical attention if irritation develops.
- 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 : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide. Dry powder. Water spray. Foam.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Can be slippery on hard, smooth walking area. Clean spills promptly. Wear suitable protective clothing.

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.

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

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Keep container tightly closed.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store at a temperature between -5°C and 40°C. Maintain adequate ventilation. Store away from food, drink animal feeding stuffs and reducing agents.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Aqua Kem Blue keeps your waste-holding tank clean and helps to prevent gas build-up, as well as reducing and masking unpleasant smells.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Blue.
Odour	: Pine.
Odour threshold	: No data available
pH	: 3,8 - 4,2
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -5 °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	: No data available
Density	: 1,12 - 1,14 g/ml
Solubility	: Water: 100 %
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: > 150 mPa.s 20 °C
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 1 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

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

See section 7.

10.5. Incompatible materials

Reducing agents.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

AQUA KEM BLUE	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
2-BROMO-2-NITROPROPANE-1,3-DIOL (52-51-7)	
LD50 oral rat	303 mg/kg
LD50 oral	180 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg
LD50 dermal	1600 mg/kg bodyweight
LC50 inhalation rat (mg/l)	> 5000 mg/kg
LC50 inhalation rat (ppm)	800 ppm
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5000 mg/l

Skin corrosion/irritation : Not classified (Not corrosive or irritant according to OECD 404 Acute Dermal Irritation / Corrosion Test (Study 185028).)
pH: 3,8 - 4,2

Serious eye damage/irritation : Not classified (Not corrosive or irritant according to OECD 405 Acute Eye Irritation / Corrosion Test (Study 185039).)
pH: 3,8 - 4,2

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

2-BROMO-2-NITROPROPANE-1,3-DIOL (52-51-7)	
LC50 fish 1	26,4 mg/l
EC50 Daphnia 2	1,08 mg/l Daphnia magna
EC50 other aquatic organisms 1	1,4 mg/l waterflea
EC50 other aquatic organisms 2	0,4 mg/l

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12.2. Persistence and degradability

AQUA KEM BLUE

Persistence and degradability	The surfactant used in this product shows a biodegradability of > 60 % (readily biodegradable), according to OECD 301 D, Closed Bottle Test (Information of manufacturer). The fragrance is > 60 % biodegradable according to OECD 301D, Closed Bottle Test. The Nitrification Inhibition of Aqua Kem Blue on micro organisms in Activated Sludge is < 10 % at a dilution of 1:3 of the recommended dosage according to EN-ISO 9509, Nitrification Inhibition Test.
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12.3. Bioaccumulative potential

AQUA KEM BLUE

Bioaccumulative potential	Not established.
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2-BROMO-2-NITROPROPANE-1,3-DIOL (52-51-7)

Log Pow	0,18
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

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

14.1. UN number

UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

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Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: 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

VOC content : 1 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
	Date of issue	Modified	
	Supersedes	Modified	
	Revision date	Modified	
9.1	Viscosity, dynamic	Modified	
11.1	Reason for no classification	Added	
11.1	Reason for no classification	Added	
11.1	ATE CLP (vapours)	Removed	
11.1	ATE CLP (dust,mist)	Removed	
11.1	ATE CLP (dermal)	Removed	

Other information : None.

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1

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Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H400	Very toxic to aquatic life

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