SECTION 1: Identification : Product identifier and chemical identity

1.1. Product identifier

Product form : Mixture
Trade name : AQUA KEM BLUE
Product code : 30095-TBV

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Additive for the waste-holding tank of mobile toilets.

1.4. Supplier's details

Manufacturer
Thetford BV
Nijverheidsweg 29
P.O. Box 169
4879 AP Etten-Leur - The Netherlands
T +31(0)765042200 - F +31(0)765042300
sds@thetford.eu - www.thetford-europe.com

Importer
Thetford Australia Pty. Ltd.
130-132 Freight Drive
VIC 3062 SOMERTON - Australia
T +61 3 9358 0700 - F +61 9357 7060
sds@thetford.eu - http://www.thetford.com.au

Distributor
Coast RV Pty Ltd
74 Greenmount Drive
East Tamaki, Auckland 2013 - New Zealand
T +64 9 274 8700
enquiry@coastrv.co.nz

Distributor
Lewis Gray Limited
40G William Pickering Drive
P.O. Box 302060
North Harbour Auckland 0751 - New Zealand
T +64 9 415 3348
sales@lewisgray.com

Distributor
Trailcom Limited
15 Oak Road
P.O. Box 98-861
Manukau City, Manukau 2241 - New Zealand
T +64 9 261 0295
trojan@trailcom.co.nz

1.5. Emergency phone number

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

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Not classified

2.2. Label elements

Precautionary statements (GHS AU) : P102 - Keep out of reach of children.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
Calcium nitrate ()	10124-37-5	10 - 20	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
bronopol (INN); 2-bromo-2-nitropropane-1,3-diol ()	52-51-7	1 - 2,5	Acute Tox. 4 (Oral), H302 Acute Tox. 5 (Dermal), H313 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400

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. Symptoms caused by exposure

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: Firefighting 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

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

5.3. Special protective equipment and precautions for fire-fighters

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.

SECTION 7: Handling and storage, including how the chemical may be safely used

7.1. Precautions for safe handling

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

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters - exposure standards

Exposure limit values for the other components

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

No additional information available

8.4. Personal protective equipment

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

Physical state	:	Liquid
Appearance	:	
Colour	:	No data available
Odour	:	No data available
Odour threshold	:	No data available
pH	:	3,8 - 4,2
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point / Freezing point	:	Melting point : -5 °C
Boiling point	:	100 °C
Flash point	:	> 100 °C
Auto-ignition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	Density : 1,12 - 1,14 g/ml
Solubility	:	Water: 100 %
Log Pow	:	No data available
Viscosity, dynamic	:	20 °C
Explosive properties	:	No data available
Explosive limits	:	No data available
Minimum ignition energy	:	No data available
VOC content	:	1 %
Fat solubility	:	No data available

SECTION 10: Stability and reactivity

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.
Possibility of hazardous reactions	:	None under normal conditions.
Conditions to avoid	:	See section 7.
Incompatible materials	:	Reducing agents.
Hazardous decomposition products	:	According to process conditions, hazardous decomposition products may be generated. Carbon dioxide. Carbon monoxide. Nitrogen compounds.

SECTION 11: Toxicological information

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

AQUA KEM BLUE	
LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
LD50 oral rat	305 mg/kg
LD50 dermal rat	> 2000 mg/kg

Skin corrosion/irritation	:	Not classified pH: 3,8 - 4,2

Serious eye damage/irritation	:	Not classified pH: 3,8 - 4,2
Respiratory or skin sensitisation	:	Not classified
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
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

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

12.1. Ecotoxicity

Acute aquatic toxicity	:	Not classified
Chronic aquatic toxicity	:	Not classified
Other information	:	Avoid release to the environment.

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.

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
Biodegradation	70 - 80 % OECD 301B Ready Biodegradability, CO2 Evolution Test, 28 days

12.3. Bioaccumulative potential

AQUA KEM BLUE	
Bioaccumulative potential	Not established.

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
Ecology - soil	No data available.

12.5. Other adverse effects

Ozone	:	Not classified
Other adverse effects	:	No additional information available

AQUA KEM BLUE	
Fluorinated greenhouse gases	False

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

Calcium nitrate (10124-37-5)	
Fluorinated greenhouse gases	False

SECTION 13: Disposal considerations

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

ADG	IMDG	IATA
14.2. UN proper shipping name		
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
	Marine pollutant : No	

14.6. Special precautions for user

Specific storage requirement : No data available

Shock sensitivity : No data available

14.7. Additional information

Other information : No supplementary information available

Transport by road and rail

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

14.8. Hazchem or Emergency Action Code

Hazchemcode : Not applicable

SECTION 15: Regulatory information

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

No additional information available

15.2. International agreements

No additional information available

SECTION 16: Any other relevant information

Indication of changes:

Section	Changed item	Change	Comments
	Supersedes	Added	
	Date of issue	Modified	
	Revision date	Modified	
1.1	Name	Modified	
2.1	Classification (GHS AU)	Removed	
3	Composition/information on ingredients	Modified	
9.1	Viscosity, dynamic	Modified	
11.1	LD50 oral rat	Modified	
11.1	LD50 dermal rat	Modified	

Revision date : 14/03/2019

Other information : None.

Classification:

Not classified	

Full text of H-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Acute Tox. 5 (Dermal)	Acute toxicity (dermal), Category 5
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
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.
H313	May be 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 Australia

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.