AQUA KEM BLUE

Safety Data Sheet

according to the Model Work Health and Safety Regulations

Date of issue:25/07/2016 Revision date:25/07/2016 : Version: 11.1

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. Recommended uses and restrictions

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

1.3. Supplier information

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

Importer
Thetford Australia Pty. Ltd.
41 Lara Way
VIC 3061 Campbellfield - Australia
T +61 3 9358 0700 - F +61 9357 7060
sds@thetford.eu - http://www.thetford.com.au

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification (GHS-AU)

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	Compound type	%	Classification according to the United Nations GHS (Rev. 4, 2011)
AQUA	7732-18-5		>= 75	Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal)
Calcium nitrate	10124-37-5		10 - 20	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
2-BROMO-2-NITROPROPANE-1,3-DIOL	52-51-7		1 - 5	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. Not classified (Inhalation:dust,mist)
PROPYLENE GLYCOL	57-55-6		1 - 5	Not classified
PEG-40 CASTOR OIL	61791-12-6		0,1 - 1	Not classified
-----	181828-06-8		0,1 - 1	Eye Irrit. 2, H319
XANTHAN GUM	11138-66-2		0,1 - 1	Not classified
Proprietary colorant			0,1 - 1	Not classified
TERPINEOL	8000-41-7		< 0,1	Skin Irrit. 2, H315 Eye Irrit. 2, H319
CITRIC ACID	77-92-9		< 0,1	Eye Irrit. 2, H319

Name	CAS No	Compound type	%	Classification according to the United Nations GHS (Rev. 4, 2011)
CAMPHOR	76-22-2		< 0,1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 STOT SE 2, H371
VERDYL ACETATE	2500-83-6		< 0,1	Aquatic Chronic 3, H412
EUCALYPTOL	470-82-6		< 0,1	Flam. Liq. 3, H226 Skin Sens. 1, H317
TRICYCLODECENYL PROPIONATE	17511-60-3		< 0,1	Aquatic Chronic 2, H411
COUMARIN	91-64-5		< 0,1	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373
DIPENTENE	138-86-3		< 0,1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
METHYLUNDECANAL	110-41-8		< 0,1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ALPHA-CEDRENE	469-61-4		< 0,1	Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CAMPHENE	79-92-5		< 0,1	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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/injuries : 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.

9.1. SECTION 9: Physical and chemical properties

Physical state	:	Liquid
Appearance	:	
Colour	:	Blue
Odour	:	Pine.
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	:	Viscosity, dynamic : > 150 mPa.s
Explosive properties	:	No data available
Explosive limits	:	No data available
Minimum ignition energy	:	No data available
VOC content	:	1 %
Fat solubility	:	No data available

10.1. 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.

11.1. SECTION 11: Toxicological information

Acute toxicity (oral)	:	Oral: Not classified.
Acute toxicity (dermal)	:	Dermal: Not classified.
Acute toxicity (inhalation)	:	Not classified

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

XANTHAN GUM (11138-66-2)	
LD50 oral	> 5000 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	21000 mg/l/4h

TERPINEOL (8000-41-7)	
LD50 oral	> 2000 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 4760 mg/m³

COUMARIN (91-64-5)	
LD50 oral rat	293 mg/kg
LD50 oral	680 mg/kg bodyweight

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/4h

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

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

AQUA KEM BLUE	
Density	1,12 - 1,14 g/ml
Viscosity, dynamic	> 150 mPa.s

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.

2,6-DIMETHYL-7-OCTEN-2-OL (18479-58-8)	
LC50 fish 1	4,81 mg/l
EC50 Daphnia 1	5,7 mg/l
Bioconcentration factor (BCF REACH)	64,8
Log Pow	3,25

ALPHA-PINENES (80-56-8)	
LC50 fish 1	0,28 mg/l
EC50 other aquatic organisms 1	1,44 mg/l EC50 waterflea (48 h)

XANTHAN GUM (11138-66-2)	
LC50 fish 1	490 mg/l
EC50 other aquatic organisms 1	980 mg/l EC50 waterflea (48 h)

TERPINEOL (8000-41-7)	
LC50 fish 1	62 mg/l
EC50 other aquatic organisms 1	73 mg/l EC50 waterflea (48 h)
EC50 other aquatic organisms 2	68 mg/l IC50 algea (72 h) mg/l
Log Pow	3,33

COUMARIN (91-64-5)	
LC50 fish 1	56 mg/l
EC50 other aquatic organisms 1	13,5 mg/l EC50 waterflea (48 h)
Log Pow	1,39

CITRIC ACID (77-92-9)	
LC50 fish 1	> 100 mg/l
EC50 other aquatic organisms 1	85 mg/l
EC50 other aquatic organisms 2	IC50 algea (72 h) mg/l
Log Pow	-1,64

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 EC50 waterflea (48 h)
EC50 other aquatic organisms 2	0,4 mg/l IC50 algea (72 h) mg/l

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.

COUMARIN (91-64-5)	
Biodegradation	90 % OECD 301F Ready Biodegradability

12.3. Bioaccumulative potential

AQUA KEM BLUE	
Bioaccumulative potential	Not established.

TERPINEOL (8000-41-7)	
Log Pow	See section 12.1 on ecotoxicology

COUMARIN (91-64-5)	
Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	Low bioaccumulation potential.

CITRIC ACID (77-92-9)	
Log Pow	See section 12.1 on ecotoxicology

12.4. Mobility in soil

TERPINEOL (8000-41-7)	
Log Pow	See section 12.1 on ecotoxicology

COUMARIN (91-64-5)	
Log Pow	See section 12.1 on ecotoxicology

CITRIC ACID (77-92-9)	
Log Pow	See section 12.1 on ecotoxicology

12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

AQUA KEM BLUE	
Fluorinated greenhouse gases	False
GWPmix comment	No known effects from this product.

AQUA (7732-18-5)	
Fluorinated greenhouse gases	False

----- (181828-06-8)	
Fluorinated greenhouse gases	False

XANTHAN GUM (11138-66-2)	
Fluorinated greenhouse gases	False

VERDYL ACETATE (2500-83-6)	
Fluorinated greenhouse gases	False

TERPINEOL (8000-41-7)	
Fluorinated greenhouse gases	False

DIPENTENE (138-86-3)	
Fluorinated greenhouse gases	False

COUMARIN (91-64-5)	
Fluorinated greenhouse gases	False

CAMPHOR (76-22-2)	
Fluorinated greenhouse gases	False

CAMPHENE (79-92-5)	
Fluorinated greenhouse gases	False

ALPHA-CEDRENE (469-61-4)	
Fluorinated greenhouse gases	False

TRICYCLODECENYL PROPIONATE (17511-60-3)	
Fluorinated greenhouse gases	False

METHYLUNDECANAL (110-41-8)	
Fluorinated greenhouse gases	False

EUCALYPTOL (470-82-6)	
Fluorinated greenhouse gases	False

PROPYLENE GLYCOL (57-55-6)	
Fluorinated greenhouse gases	False

Proprietary colorant	
Fluorinated greenhouse gases	False

PEG-40 CASTOR OIL (61791-12-6)	
Fluorinated greenhouse gases	False

CITRIC ACID (77-92-9)	
Fluorinated greenhouse gases	False

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

Waste 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

14.1. UN number

Not regulated for transport

14.2. Proper Shipping Name - Addition

Not applicable

14.3. Transport hazard class(es)

ADG

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

IMDG

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

IATA

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

14.4. Packing group

Packing group (ADG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : 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

Revision date : 25/07/2016
Other information : None.

Classification:

Not classified	

Full text of H-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Acute Tox. Not classified (Dermal)	Acute toxicity (dermal) Not classified
Acute Tox. Not classified (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Not classified
Acute Tox. Not classified (Oral)	Acute toxicity (oral) Not classified
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
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Liq. Not classified	Flammable liquids Not classified

Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
Skin Sens. 1B	Sensitisation — Skin, category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 2	Specific target organ toxicity — Single exposure, Category 2
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H371	May cause damage to organs
H373	May cause damage to organs through prolonged or repeated exposure
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
H412	Harmful to aquatic life with long lasting effects

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