

## Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

SDS Ref.: 30640

Date of issue: 14-8-2019 Revision date: 21-3-2019 Supersedes: 06-11-2018 Version: 1.1

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

#### 1.1. Product identifier

Product form : Mixture  
 Trade name : AQUA KEM GREEN CONCENTRATED  
 Product code : 30640-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  
 P.O. Box 169  
 4879 AP Etten-Leur - The Netherlands  
 T +31(0)765042200 - F +31(0)765042300  
[ChemSupport@thetford.eu](mailto:ChemSupport@thetford.eu) - [www.thetford-europe.com](http://www.thetford-europe.com)  
 E-mail address of competent person responsible for the SDS :  
[sds@thetford.eu](mailto:sds@thetford.eu)

#### 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]

Serious eye damage/eye irritation, Category 1 H318

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) :



GHS05

Signal word (CLP) : Danger  
 Hazardous ingredients : bronopol (INN); 2-bromo-2-nitropropane-1,3-diol; Calcium nitrate  
 Hazard statements (CLP) : H318 - Causes serious eye damage.  
 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.  
 P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.  
 EUH-statements : EUH208 - Contains Isoeugenol(97-54-1). May produce an allergic reaction.  
 UFI : 55RQ-PTPK-S80Q-DKFP  
 Child-resistant fastening : Not applicable  
 Tactile warning : Not applicable

# AQUA KEM GREEN CONCENTRATED

## Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

### 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
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	1 - 2,5	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
Isoeugenol	(CAS-No.) 97-54-1 (EC-No.) 202-590-7	< 0,1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317

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	: Allow affected person to breathe fresh air. Allow the victim to rest.
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	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after eye contact : Causes serious eye damage.

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

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 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

#### 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 entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

# AQUA KEM GREEN CONCENTRATED

## Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 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 : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash hands thoroughly after handling.

### 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, Heat sources. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

Aqua Kem Green Concentrated is an additive for the holding tank of your mobile toilet. It reduces and masks unpleasant smells. Helps to prevent gas build up. Keeps your tank clean.

## 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 : dark green.  
Odour : Citrus fruits.  
Odour threshold : No data available  
pH : 3 - 4,25  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : No data available  
Freezing point : ≈ 0  
Boiling point : ≈ 100 °C  
Flash point : No data available  
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 : 1,123 - 1,143 g/cm<sup>3</sup>  
Solubility : Water: 100 %  
Log Pow : No data available

# AQUA KEM GREEN CONCENTRATED

## Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

Viscosity, kinematic	: No data available
Viscosity, dynamic	: 300 - 400 mPa·s
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content	: 0,003 %
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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, Aqua Kem Green Concentrated can be kept for several years. After a few years, there might be a slight reduction in strength.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## 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

### Calcium nitrate (10124-37-5)

LD50 oral rat	300 - 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity), Guideline: other:Japanese Ministry of Agriculture, Forestry and Fisheries (JMAFF), 12 Nousan, Notification No 8147, November 2000, including the most recent partial revisions
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

### 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

### Isoeugenol (97-54-1)

LD50 oral	1560 mg/kg bodyweight
Skin corrosion/irritation	: Not classified pH: 3 - 4,25
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Causes serious eye damage. pH: 3 - 4,25
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met

# AQUA KEM GREEN CONCENTRATED

## Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

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

NOAEL (chronic, oral, animal/male, 2 years)	7 mg/kg bodyweight
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Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met

### Calcium nitrate (10124-37-5)

NOAEL (oral, rat, 90 days)	>= 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral))
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### bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

LOAEL (oral, rat, 90 days)	20 mg/kg bodyweight Animal: dog
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Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

### Calcium nitrate (10124-37-5)

LC50 fish 1	1378 mg/l Test organisms (species): Poecilia reticulata
EC50 Daphnia 1	490 mg/l Test organisms (species): Daphnia magna

### 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'
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'

### Isoeugenol (97-54-1)

EC50 other aquatic organisms 1	7,5 mg/l waterflea
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### 12.2. Persistence and degradability

#### AQUA KEM GREEN CONCENTRATED

Persistence and degradability	Not established.
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### bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

Biodegradation	70 - 80 % OECD 301B Ready Biodegradability, CO2 Evolution Test, 28 days
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### 12.3. Bioaccumulative potential

#### AQUA KEM GREEN CONCENTRATED

Bioaccumulative potential	Not established.
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# AQUA KEM GREEN CONCENTRATED

## Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

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

Bioaccumulative potential	Low bioaccumulation potential.
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### Isoeugenol (97-54-1)

Log Pow	2,1
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### 12.4. Mobility in soil

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

Ecology - soil	No data available.
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### 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
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### 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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 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

# AQUA KEM GREEN CONCENTRATED

## Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

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 : 0,003 %

### 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
	Supersedes	Added	
	Revision date	Added	
	Date of issue	Modified	
2.2	EUH-statements	Added	
9.1	Boiling point	Modified	

Other information : None.

### Full text of H- and EUH-statements:

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
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute 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 Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H301	Toxic if swallowed.
H302	Harmful if swallowed.
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.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
EUH208	Contains Isoeugenol(97-54-1). May produce an allergic reaction.

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*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.*