

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

1.1. Product identifier

Product form : Mixture
 Trade name : AQUA RINSE PLUS
 Product code : 30352-TBV
 Type of product : Flush water additive for portable and 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 : Flush water additive for portable and mobile toilets
 Function or use category : Cleaning/washing agents and additives, Odour agents

Title	Use descriptors
Consumer use of washing and cleaning products	SU21, PC35, ERC8a

Full text of use descriptors: see section 16

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
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]

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 : METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE
 Hazard statements (CLP) : H317 - May cause an allergic skin reaction.
 Precautionary statements (CLP) : P102 - Keep out of reach of children.
 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.
 Security closing plug for children : Not applicable

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Tactile warning : Not applicable

2.3. Other hazards

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

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. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411
METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE	(CAS-No.) 55965-84-9 (EC-No.) 611-341-5 (EC Index-No.) 613-167-00-5	< 0,1	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation:gas), H330 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10)

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.

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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

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. Provide good ventilation in process area to prevent formation of vapour.

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)

Aqua Rinse Plus is a multifunctional flush-water-tank additive for Porta Potti and other freshwater flush toilets. It also helps to keep the water in the water tank fresh. Aqua Rinse Plus leaves a protective film on the surface of the toilet bowl and valves. This results in a more effective flush. Aqua Rinse Plus improves the hygiene of your toilet.

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:

Not required.

Respiratory protection:

Not required.

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 : Pink.

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Odour	: Lavender.
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 - 110 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.

10.2. Chemical stability

Stable up to 50°C. At an average temperature of 30°C, Aqua Rinse Plus 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

None under normal conditions.

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

METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE (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.

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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

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : See Heading 3: Information on ingredients.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

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

EC50 72h algae (1) 0,37 mg/l

METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE (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

AQUA RINSE PLUS

Persistence and degradability Aqua Rinse Plus 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

METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE (55965-84-9)

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

12.3. Bioaccumulative potential

AQUA RINSE PLUS

Bioaccumulative potential Not established.

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

Bioaccumulative potential Low bioaccumulation potential.

METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE (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

AQUA RINSE PLUS

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

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12.6. Other adverse effects

Other adverse effects : None known.
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
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

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

SECTION 16: Other information

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

Indication of changes:

Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	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.

Other information : None.

Full text of H- and EUH-statements:

Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 2
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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 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
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.
H302	Harmful if swallowed.
H310	Fatal 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.
H330	Fatal if inhaled.
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.

Full text of use descriptors

ERC8a	Wide dispersive indoor use of processing aids in open systems
PC35	Washing and cleaning products (including solvent based products)
SU21	Consumer uses: Private households (= general public = consumers)

Name	Product identifier	Specific concentration limits
METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE	(CAS-No.) 55965-84-9 (EC-No.) 611-341-5 (EC Index-No.) 613-167-00-5	(C >= 0,0015) Skin Sens. 1, H317 (0,06 =<C < 0,6) Eye Irrit. 2, H319 (0,06 =<C < 0,6) Skin Irrit. 2, H315 (C >= 0,6) 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