

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 SDS Ref.: 30335 Date of issue: 12-8-2019 Revision date: 20-3-2019 Supersedes: 23-10-2018 Version: 8.0

	nce/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Trade name	: TOILET BOWL CLEANER
Product code	: 30335-TBV
Type of product	: Detergent
1.2. Relevant identified uses of the substan	ce 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	: For plastic and ceramic safe thorough cleaning of the toilet bowl of mobile toilets.
Function or use category	: Cleaning/washing agents and additives
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety data	a 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 - www.thetford-europe.cu	m
E-mail address of competent person responsible for	
sds@thetford.eu	
1.4. Emergency telephone number	
	Thetford B.V. : +31 (0)76 5042200 (Reachable during office hours)
SECTION 2: Hazards identification	
2.1. Classification of the substance or mixte	Jre
Classification according to Regulation (EC) No. 1	272/2008 [CLP]
Serious eye damage/eye irritation, Category 2	H319
Full text of H statements : see section 16	
Adverse physicochemical, human health and env	vironmental effects
No additional information available	
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/	
Hazard pictograms (CLP)	
	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H319 - Causes serious eye irritation.
Precautionary statements (CLP)	 P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children.
	P280 - Wear eye protection.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.
UFI	: 9690-2RNK-6807-NXDD
Child-resistant fastening Tactile warning	: Not applicable : Not applicable
2.3. Other hazards	
Other hazards not contributing to the classification	: None under normal conditions.
20.3, 2010 (Varsian: 8.0)	EN (English)

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SECTION 3: Composition/information on ingredients 3.1. Substances Not applicable

3.2. Mixtures

J.Z. MIRTURES			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
CITRIC ACID	(CAS-No.) 77-92-9 (EC-No.) 201-069-1 (REACH-no) 01-2119457026-42	5 - 10	Eye Irrit. 2, H319
Sodium lauryl sulfate C12-C14 (TEXAPON LS 30)		2,5 - 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Alcohols, C12-14(even numbered), ethoxylated, sulfates, sodium salts (< 2.5EO)	(CAS-No.) 68891-38-3 (EC-No.) 500-234-8 (REACH-no) 01-2119488639-16	< 2,5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
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	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

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	: 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 immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
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	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any immediate medical att	tention and special treatment needed
No additional information available	

20.2.2010 (Version: 8.0)	EN/(English) 2/0
Emergency procedures	: Ventilate area.
Protective equipment	: Equip cleanup crew with proper protection.
6.1.2. For emergency responders	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.1. For non-emergency personnel	
General measures	: Can be slippery on hard, smooth walking area. Clean spills promptly.
6.1. Personal precautions, protectiv	/e equipment and emergency procedures
SECTION 6: Accidental release	measures
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
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.
5.3. Advice for firefighters	
No additional information available	
5.2. Special hazards arising from th	e substance or mixture
Unsuitable extinguishing media	: Do not use a heavy water stream.
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
5.1. Extinguishing media	
SECTION 5: Firefighting measu	res

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6.2. Environmental precautions

Prevent entry to sewers and public waters	. Notify authorities if liquid enters sewers or public waters.
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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.
7.2. Conditions for safe storage, includin	g 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.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/perso	onal 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 che		
Physical state	: Liquid	
Colour	: Yellow.	
Odour	: Characteristic.	
Odour threshold	: No data available	
рН	: 3,6	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
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	: 1,082 - 1,088	
Solubility	: Water: 100 %	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	

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Viscosity, dynamic	: > 150 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
No additional information available
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
Sodium lauryl sulfate C12-C14 (TEXAPON LS 30)	
LD50 oral	> 2000 mg/kg

CITRIC ACID (77-92-9)	
LD50 oral	5400 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 4500 - 6400
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal	> 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 bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LC50 inhalation rat (mg/l)	>= 0,588 mg/l air Animal: rat	

Alcohols, C12-14(even numbered), ethoxylated, sulfates, sodium salts (< 2.5EO) (68891-38-3)	
LD50 oral	4100 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
	pH: 3,6
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Causes serious eye irritation.
	pH: 3,6
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

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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
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
CITRIC ACID (77-92-9)	
NOAEL (oral, rat, 90 days)	4000 mg/kg bodyweight Animal: rat

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
LOAEL (oral, rat, 90 days)	20 mg/kg bodyweight Animal: dog

Alcohols, C12-14(even numbered), ethoxylated, sulfates, sodium salts (< 2.5EO) (68891-38-3)	
NOAEL (oral, rat, 90 days)	> 225 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity in Rodents)
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	
Ecology - general	: See Heading 3: Information on ingredients.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
Sodium lauryl sulfate C12-C14 (TEXAPON LS 30)	
LC50 fish 1	> 10 - 100 mg/l

CITRIC ACID (77-92-9)	
LC50 fish 1	> 100 mg/l
EC50 other aquatic organisms 1	85 mg/l waterflea

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'

Alcohols, C12-14(even numbered), ethoxylated, sulfates, sodium salts (< 2.5EO) (68891-38-3)	
LC50 fish 1	7,1 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 Daphnia 1	7,2 mg/l Test organisms (species): Daphnia magna
EC50 Daphnia 2	7,4 mg/l Test organisms (species): Daphnia magna
EC50 other aquatic organisms 1	> 1 mg/l waterflea

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EC50 other aquatic organisms 2	> 10 mg/l
EC50 72h algae (1)	27 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h algae (2)	27,7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	0,27 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0,14 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'
12.2. Persistence and degradability	
TOILET BOWL CLEANER	
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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	
TOILET BOWL CLEANER	
Bioaccumulative potential	Not established.

CITRIC ACID (77-92-9)	
Log Pow	-1,72

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. 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				
ADR	IMDG	ΙΑΤΑ	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

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according to Regulation (EC) No.	1907/2006 (REACH) with its amend	dment Regulation (EU) 2015/830	0	
14.5. Environmental haz	ards			
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
lo supplementary informatio	n available		· · ·	
4.6. Special precaution	s for user			
Overland transport				
lo data available				
ransport by sea				
//FAG-No	: 154			
Air transport				
lo data available				
nland waterway transport				
lo data available				
Rail transport				
No data available	econding to Annoy II of M	amal and the IPC Cade		
Not applicable	according to Annex II of Ma	arpoi and the IBC Code		
15.1.1. EU-Regulations Contains no REACH substan Contains no substance on the Contains no REACH Annex 2 Contains no substance subject concerning the export and im Substance(s) are not subject pollutants and amending Dire	environmental regulations aces with Annex XVII restrictions e REACH candidate list XIV substances act to REGULATION (EU) No 64 aport of hazardous chemicals. to Regulation (EC) No 850/200 ective 79/117/EEC. : < 0, : The crite asse will I mar	9/2012 OF THE EUROPEA 4 of the European Parliame 1 % surfactant(s) contained in the as laid down in Regulation ertion are held at the dispose	N PARLIAMENT AND OF THE	COUNCIL of 4 July 2012 I 2004 on persistent organ y) with the biodegradability ents. Data to support this of the Member States and
Detergent Regulation : Label	ling of contents:			
Component				%
on-ionic surfactants, anionic	csurfactants			<5%
pronopol				
 15.1.2. National regulations No additional information available 15.2. Chemical safety as No chemical safety assessment 	ailable sessment			

SECTION 16: Other information				
Indication of changes:				
Section	Changed item Change Comments			
	Revision date	Modified		
	Date of issue	Modified		
	Supersedes	Modified		

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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. : None.

Other information

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		
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2		
Aquatic Chronic 3	Hazardous to t	he aquatic environment — Chronic Haza	ard, Category 3
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		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
H301	Toxic if swallowed.		
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		
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.		
H412	Harmful to aquatic life with long lasting effects.		
Name		Product identifier	Specific concentration limits
Sodium lauryl sulfate C12-C14 (TEXAPON LS 30)			(10 <c 2,="" 20)="" <="" eye="" h319<br="" irrit.="">(20 =<c 1,="" 100)="" <="" dam.="" eye="" h318<="" td=""></c></c>
Alcohols, C12-14(even numbered), ethoxylated, sulfates, sodium salts (< 2.5EO)		(CAS-No.) 68891-38-3 (EC-No.) 500-234-8 (REACH-no) 01-2119488639-16	(5 = <c 10)="" 2,="" <="" eye="" h319<br="" irrit.="">(10 =<c 1,="" 100)="" <="" dam.="" eye="" h318<="" td=""></c></c>

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.