SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 as amended by Commission Regulation (EU) 2020/878 and Regulation (EC) No. 1272/2008

Issuing Date 08-Dec-2022 **Revision Date** 08-Dec-2022 **Revision Number** 1

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

1.1. Product identifier

Product Name MazWell Surface Sanitiser Concentrate - Citrus

Synonyms None

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Embalming chemical

Uses advised against Use only for intended applications

1.3. Details of the supplier of the safety data sheet

Manufacturer
The MazWell Group Ltd.
Units 11/14-15 Ardglen Industrial Estate,
Whitchurch, Hampshire,
RG28 7BB, United Kingdom
+44 (0)1256-893883
+44 (0)1256-893868
enquiries@themazwellgroup.com

Supplier
Medenta GmbH
Huckrieden Esch 9,
49549 Ladbergen.
Germany
(05485) 2020
info@medenta.de

For further information, please contact
E-mail address enquiries@themazwellgroup.com

1.4. Emergency telephone number

Emergency telephone No information available

Emergency telephone - §45 - (EC)1272/2008	
Europe	**112**
Germany	Poison Control Center - Charité - Universitätsmedizin Berlin Tel (+49) 30 30686700

SECTION 2: Hazards identification

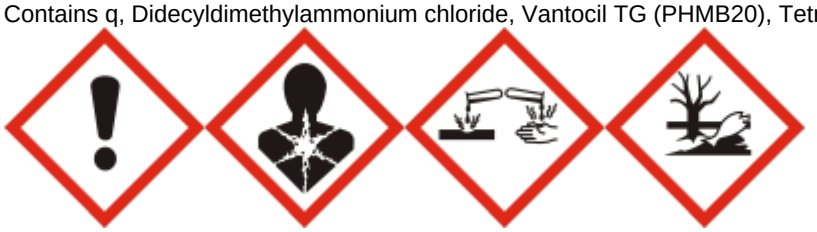
2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 1 Sub-category B - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitisation	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains q, Didecyldimethylammonium chloride, Vantocil TG (PHMB20), Tetrasodium EDTA



Signal word

Danger

Hazard statements

H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H332 - Harmful if inhaled
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects
EUH208 - Contains D-Limonene May produce an allergic reaction

Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor
P391 - Collect spillage

Unknown acute toxicity

14.882 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Unknown aquatic toxicity Contains 10.142 % of components with unknown hazards to the aquatic environment.

Additional information

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

No information available.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1	2.5 - < 5	No data available	270-325-2	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	10	1
Didecyldimethylammonium chloride 7173-51-5	1 - < 2.5	No data available	(612-131-00-6) 230-525-2	Acute Tox. 4 (H302) Skin Corr. 1B (H314)	-	-	-
Vantocil TG (PHMB20) 27083-27-8	1 - < 2.5	No data available	(616-207-00-X)	Acute Tox. 4 (H302) Acute Tox. 2 (H330) Eye Dam. 1 (H318) Skin Sens. 1B (H317) Carc. 2 (H351) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	10	10
Isopropyl alcohol 67-63-0	< 1	No data available	200-661-7	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)	-	-	-
Tetrasodium EDTA 64-02-8	< 1	No data available	(607-428-00-2) 200-573-9	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	-	-	-
Citric acid 77-92-9	< 0.25	No data available	(607-750-00-3) 201-069-1	Eye Irrit. 2 (H319) STOT SE 3 (H335)	-	-	-
D-Limonene 5989-27-5	< 0.25	No data available	(601-029-00-7) 227-813-5	Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Asp. Tox. 1 (H304) Aquatic Acute	-	1	1

				1 (H400) Aquatic Chronic 3 (H412) Flam. Liq. 3 (H226)			
Turpentine oil 8006-64-2	< 0.025	No data available	(650-002-00-6) 232-350-7	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)	-	-	-
Phenyl ether 101-84-8	< 0.025	No data available	202-981-2	No data available	-	-	-
Trisodium nta 5064-31-3	< 0.025	No data available	(607-620-00-6) 225-768-6	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Carc. 2 (H351)	Carc. 2 :: C>=5%	-	-
Sodium hydroxide 1310-73-2	< 0.025	No data available	(011-002-00-6) 215-185-5	Skin Corr. 1A (H314)	Eye Irrit. 2 :: 0.5%<=C<2% Skin Corr. 1A :: C>=5% Skin Corr. 1B :: 2%<=C<5% Skin Irrit. 2 :: 0.5%<=C<2%	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1	426	No data available	No data available	No data available	No data available
Didecyldimethylammonium chloride 7173-51-5	84	1001	No data available	No data available	No data available
Isopropyl alcohol 67-63-0	1870	4059	No data available	30.1002	No data available

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Tetrasodium EDTA 64-02-8	1658	No data available	No data available	No data available	No data available
Citric acid 77-92-9	3000	2002	No data available	No data available	No data available
D-Limonene 5989-27-5	5200 4400	5005	No data available	No data available	No data available
Turpentine oil 8006-64-2	5760	5015.01	No data available	No data available	No data available
Phenyl ether 101-84-8	2450	7947.94	No data available	No data available	No data available
Trisodium nta 5064-31-3	1100	No data available	No data available	No data available	No data available
Sodium hydroxide 1310-73-2	325	1350	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.

Inhalation Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention. May cause an allergic skin reaction.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid breathing vapours or mists. Use personal protective equipment as required. See section 8 for more information.

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

Symptoms Burning sensation. Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical

antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitisation in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours. Product is or contains a sensitiser. May cause sensitisation by skin contact.

5.3. Advice for firefighters

Specific/special fire-fighting measures Fires need to be assessed to determine appropriate protocols and safety measures for firefighting, including establishing safe zones, extinguishing media to be used, firefighter protection, and actions to control or extinguish the fire.

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapours or mists.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information See section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Avoid breathing vapours or mists.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

Storage class (TRGS 510) LGK 8A.

7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Isopropyl alcohol 67-63-0	-	TWA: 200 ppm TWA: 500 mg/m³ STEL 800 ppm STEL 2000 mg/m³	TWA: 200 ppm TWA: 500 mg/m³ STEL: 400 ppm STEL: 1000 mg/m³	STEL: 1225.0 mg/m³ TWA: 980.0 mg/m³	TWA: 400 ppm TWA: 999 mg/m³ STEL: 500 ppm STEL: 1250 mg/m³
Turpentine oil 8006-64-2	-	TWA: 100 ppm TWA: 560 mg/m³ STEL 100 ppm STEL 560 mg/m³ Ceiling: 100 ppm Ceiling: 560 mg/m³ H* Sh+	TWA: 20 ppm	TWA: 300.0 mg/m³	TWA: 100 ppm TWA: 566 mg/m³ STEL: 150 ppm STEL: 850 mg/m³ * Skin Sensitisation
Phenyl ether 101-84-8	STEL: 14 mg/m³ STEL: 2 ppm TWA: 7 mg/m³ TWA: 1 ppm	TWA: 1 ppm TWA: 7 mg/m³ STEL 2 ppm STEL 14 mg/m³	TWA: 1 ppm TWA: 7 mg/m³ STEL: 2 ppm STEL: 14 mg/m³	STEL: 14 mg/m³ STEL: 2 ppm TWA: 7 mg/m³ TWA: 1 ppm	TWA: 1 ppm TWA: 7 mg/m³ STEL: 2 ppm STEL: 14 mg/m³
Sodium hydroxide 1310-73-2	-	TWA: 2 mg/m³ STEL 4 mg/m³	-	TWA: 2.0 mg/m³	STEL: 2 mg/m³

Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Isopropyl alcohol 67-63-0	-	TWA: 500 mg/m³ Ceiling: 1000 mg/m³ D*	TWA: 200 ppm TWA: 490 mg/m³	TWA: 150 ppm TWA: 350 mg/m³ STEL: 250 ppm STEL: 600 mg/m³	TWA: 200 ppm TWA: 500 mg/m³ STEL: 250 ppm STEL: 620 mg/m³
Citric acid 77-92-9	-	TWA: 4 mg/m³	-	-	-
D-Limonene 5989-27-5	-	-	-	-	TWA: 25 ppm TWA: 140 mg/m³ STEL: 50 ppm STEL: 280 mg/m³
Turpentine oil 8006-64-2	-	TWA: 300 mg/m³ Ceiling: 800 mg/m³	TWA: 25 ppm TWA: 140 mg/m³	S+ TWA: 25 ppm	TWA: 25 ppm TWA: 140 mg/m³

		S+		TWA: 150 mg/m³ STEL: 50 ppm STEL: 300 mg/m³ A*	STEL: 50 ppm STEL: 280 mg/m³ iho*
Phenyl ether 101-84-8	STEL: 14 mg/m³ STEL: 2 ppm TWA: 7 mg/m³ TWA: 1 ppm	TWA: 5 mg/m³ Ceiling: 10 mg/m³	TWA: 1 ppm TWA: 7 mg/m³	TWA: 1 ppm TWA: 7 mg/m³ STEL: 2 ppm STEL: 14 mg/m³	TWA: 1 ppm TWA: 7 mg/m³ STEL: 2 ppm STEL: 14 mg/m³
Sodium hydroxide 1310-73-2	-	TWA: 1 mg/m³ Ceiling: 2 mg/m³	Ceiling: 2 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³	Ceiling: 2 mg/m³
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Isopropyl alcohol 67-63-0	STEL: 400 ppm STEL: 980 mg/m³	TWA: 200 ppm TWA: 500 mg/m³	TWA: 200 ppm TWA: 500 mg/m³ Peak: 400 ppm Peak: 1000 mg/m³	TWA: 400 ppm TWA: 980 mg/m³ STEL: 500 ppm STEL: 1225 mg/m³	TWA: 500 mg/m³ STEL: 1000 mg/m³ b*
Citric acid 77-92-9	-	TWA: 2 mg/m³	TWA: 2 mg/m³ Peak: 4 mg/m³	-	-
D-Limonene 5989-27-5	TWA: 1000 mg/m³ STEL: 1500 mg/m³	TWA: 5 ppm TWA: 28 mg/m³ Sh+ H*	TWA: 5 ppm TWA: 28 mg/m³ Peak: 20 ppm Peak: 112 mg/m³ * skin sensitizer	-	-
Turpentine oil 8006-64-2	TWA: 100 ppm TWA: 560 mg/m³	-	TWA: 5 ppm TWA: 28 mg/m³ Peak: 10 ppm Peak: 56 mg/m³ * skin sensitizer	TWA: 100 ppm TWA: 560 mg/m³ STEL: 150 ppm STEL: 840 mg/m³	-
Phenyl ether 101-84-8	TWA: 1 ppm TWA: 7 mg/m³ STEL: 2 ppm STEL: 14 mg/m³ *	TWA: 1 ppm TWA: 7.1 mg/m³	TWA: 1 ppm TWA: 7.1 mg/m³ Peak: 1 ppm Peak: 7.1 mg/m³	TWA: 1 ppm TWA: 7 mg/m³ STEL: 2 ppm STEL: 14 mg/m³	TWA: 7 mg/m³ STEL: 14 mg/m³
Trisodium nta 5064-31-3	-	TWA: 2 mg/m³	TWA: 2 mg/m³ Peak: 8 mg/m³	-	-
Sodium hydroxide 1310-73-2	TWA: 2 mg/m³	-	-	TWA: 2 mg/m³ STEL: 2 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Isopropyl alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm Sk*	-	TWA: 200 ppm TWA: 492 mg/m³ STEL: 400 ppm STEL: 983 mg/m³	TWA: 350 mg/m³ STEL: 600 mg/m³	TWA: 150 ppm TWA: 350 mg/m³ STEL: 250 ppm STEL: 600 mg/m³
Turpentine oil 8006-64-2	TWA: 20 ppm TWA: 112 mg/m³ STEL: 150 ppm STEL: 840 mg/m³ Sens+	-	TWA: 20 ppm TWA: 111 mg/m³ senD+	-	J+ O* TWA: 25 ppm TWA: 150 mg/m³ STEL: 50 ppm STEL: 300 mg/m³
Phenyl ether 101-84-8	TWA: 1 ppm TWA: 7 mg/m³ STEL: 2 ppm STEL: 14 mg/m³	TWA: 7 mg/m³ TWA: 1 ppm	TWA: 1 ppm TWA: 7 mg/m³ STEL: 2 ppm STEL: 14 mg/m³	TWA: 7 mg/m³ TWA: 1 ppm STEL: 14 mg/m³ STEL: 2 ppm	TWA: 7 mg/m³ TWA: 1 ppm STEL: 14 mg/m³ STEL: 2 ppm
Sodium hydroxide 1310-73-2	STEL: 2 mg/m³	-	Ceiling: 2 mg/m³	TWA: 0.5 mg/m³	Ceiling: 2 mg/m³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Isopropyl alcohol 67-63-0	-	-	-	TWA: 100 ppm TWA: 245 mg/m³ STEL: 150 ppm STEL: 306.25 mg/m³	STEL: 1200 mg/m³ TWA: 900 mg/m³ skóra*
D-Limonene	-	-	-	TWA: 25 ppm	-

5989-27-5				TWA: 140 mg/m³ A+ STEL: 37.5 ppm STEL: 175 mg/m³	
Turpentine oil 8006-64-2	-	-	-	TWA: 25 ppm TWA: 140 mg/m³ A+ STEL: 37.5 ppm STEL: 175 mg/m³ H*	STEL: 300 mg/m³ TWA: 112 mg/m³
Phenyl ether 101-84-8	STEL: 14 mg/m³ STEL: 2 ppm TWA: 7 mg/m³ TWA: 1 ppm	STEL: 2 ppm STEL: 14 mg/m³ TWA: 1 ppm TWA: 7 mg/m³	TWA: 7 mg/m³ STEL: 14 mg/m³	TWA: 1 ppm TWA: 7 mg/m³ STEL: 2 ppm STEL: 14 mg/m³	STEL: 14 mg/m³ TWA: 7 mg/m³
Trisodium nta 5064-31-3	-	-	-	-	TWA: 3.0 mg/m³
Sodium hydroxide 1310-73-2	-	-	-	Ceiling: 2 mg/m³	STEL: 1 mg/m³ TWA: 0.5 mg/m³

Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Isopropyl alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm	TWA: 81 ppm TWA: 200 mg/m³ STEL: 203 ppm STEL: 500 mg/m³	TWA: 200 ppm TWA: 500 mg/m³ Ceiling: 1000 mg/m³	TWA: 200 ppm TWA: 500 mg/m³ STEL: 400 ppm STEL: 1000 mg/m³	TWA: 200 ppm TWA: 500 mg/m³ STEL: 400 ppm STEL: 1000 mg/m³
D-Limonene 5989-27-5	-	-	-	TWA: 28 mg/m³ TWA: 5 ppm STEL: 20 ppm STEL: 112 mg/m³ K*	TWA: 30 ppm TWA: 168 mg/m³ vía dérmica* Sen+
Turpentine oil 8006-64-2	TWA: 20 ppm Sensitizer dermal	TWA: 400 mg/m³ STEL: 500 mg/m³ P*	TWA: 100 ppm TWA: 560 mg/m³ S+ Ceiling: 850 mg/m³	-	TWA: 20 ppm TWA: 113 mg/m³ Sen+
Phenyl ether 101-84-8	TWA: 1 ppm TWA: 7 mg/m³ STEL: 2 ppm STEL: 14 mg/m³	TWA: 0.7 ppm TWA: 5 mg/m³ STEL: 1.4 ppm STEL: 10 mg/m³	TWA: 1 ppm TWA: 7 mg/m³ Ceiling: 7.1 mg/m³	TWA: 1 ppm TWA: 7 mg/m³ STEL: 14 mg/m³ STEL: 2 ppm	TWA: 1 ppm TWA: 7.1 mg/m³ STEL: 2 ppm STEL: 14.2 mg/m³
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m³	TWA: 1 mg/m³ STEL: 3 mg/m³	TWA: 2 mg/m³	-	STEL: 2 mg/m³

Chemical name	Sweden	Switzerland	United Kingdom
Isopropyl alcohol 67-63-0	NGV: 150 ppm NGV: 350 mg/m³ Vägledande KGV: 250 ppm Vägledande KGV: 600 mg/m³	TWA: 200 ppm TWA: 500 mg/m³ STEL: 400 ppm STEL: 1000 mg/m³	TWA: 400 ppm TWA: 999 mg/m³ STEL: 500 ppm STEL: 1250 mg/m³
Citric acid 77-92-9	-	TWA: 2 mg/m³ STEL: 4 mg/m³	-
D-Limonene 5989-27-5	-	S+ TWA: 7 ppm TWA: 40 mg/m³ STEL: 14 ppm STEL: 80 mg/m³	-
Turpentine oil 8006-64-2	NGV: 25 ppm NGV: 150 mg/m³ Vägledande KGV: 50 ppm Vägledande KGV: 300 mg/m³ H* S+	S+ TWA: 20 ppm TWA: 112 mg/m³ STEL: 40 ppm STEL: 224 mg/m³ H*	TWA: 100 ppm TWA: 566 mg/m³ STEL: 150 ppm STEL: 850 mg/m³
Phenyl ether 101-84-8	NGV: 1 ppm NGV: 7 mg/m³ Bindande KGV: 2 ppm Bindande KGV: 14 mg/m³	TWA: 1 ppm TWA: 7 mg/m³ STEL: 2 ppm STEL: 14 mg/m³	TWA: 1 ppm TWA: 7 mg/m³ STEL: 2 ppm STEL: 14 mg/m³
Sodium hydroxide	NGV: 1 mg/m³	TWA: 2 mg/m³	STEL: 2 mg/m³

1310-73-2	Bindande KGV: 2 mg/m³	STEL: 2 mg/m³	

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Isopropyl alcohol 67-63-0	-	-	-	50 mg/L - blood (Acetone) - at the end of the work shift 50 mg/L - urine (Acetone) - at the end of the work shift	-

Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
Isopropyl alcohol 67-63-0	-	-	-	25 mg/L (whole blood - Acetone end of shift) 25 mg/L (urine - Acetone end of shift) 25 mg/L - BAT (end of exposure or end of shift) urine 25 mg/L - BAT (end of exposure or end of shift) blood	25 mg/L (whole blood - Acetone end of shift) 25 mg/L (urine - Acetone end of shift)

Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII
Isopropyl alcohol 67-63-0	-	40 mg/L (urine - Acetone end of shift at end of workweek)	-	40 mg/L - urine (Acetone) - end of shift at end of workweek

Chemical name	Latvia	Luxembourg	Romania	Slovakia
Isopropyl alcohol 67-63-0	-	-	50 mg/L - urine (Acetone) - end of shift	-

Chemical name	Slovenia	Spain	Switzerland	United Kingdom
Isopropyl alcohol 67-63-0	25 mg/L - blood (Acetone) - at the end of the work shift 25 mg/L - urine (Acetone) - at the end of the work shift	40 mg/L (urine - Acetone end of workweek)	25 mg/L (urine - Acetone end of shift) 0.4 mmol/L (urine - Acetone end of shift) 25 mg/L (whole blood - Acetone end of shift) 0.4 mmol/L (whole blood - Acetone end of shift)	-

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1	-	5.7 mg/kg bw/day [4] [6]	3.96 mg/m³ [4] [6]
Isopropyl alcohol 67-63-0	-	888 mg/kg bw/day [4] [6]	500 mg/m³ [4] [6]
Phenyl ether 101-84-8	-	25 mg/kg bw/day [4] [6]	59 mg/m³ [4] [6] 7 mg/m³ [5] [6] 14 mg/m³ [5] [7]
Sodium hydroxide 1310-73-2	-	-	1 mg/m³ [5] [6]

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1	3.4 mg/kg bw/day [4] [6]	-	1.64 mg/m³ [4] [6]
Isopropyl alcohol 67-63-0	26 mg/kg bw/day [4] [6]	-	89 mg/m³ [4] [6]
Sodium hydroxide 1310-73-2	-	-	1 mg/m³ [5] [6]

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1	0.0009 mg/L	0.00016 mg/L	0.00096 mg/L	-	-
Didecyldimethylammonium chloride 7173-51-5	1.1 µg/L	0.21 µg/L	0.11 µg/L	0.021 µg/L	-
Isopropyl alcohol 67-63-0	140.9 mg/L	140.9 mg/L	140.9 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1	12.27 mg/kg sediment dw	13.09 mg/kg sediment dw	0.4 mg/L	7 mg/kg soil dw	-
Didecyldimethylammonium chloride 7173-51-5	61.86 mg/kg sediment dw	6.186 mg/kg sediment dw	0.14 mg/L	1.4 mg/kg soil dw	-
Isopropyl alcohol 67-63-0	552 mg/kg sediment dw	552 mg/kg sediment dw	2251 mg/L	28 mg/kg soil dw	160 mg/kg food

8.2. Exposure controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.
Environmental exposure controls	No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid
Physical state	Liquid
Colour	Colourless
Odour	Citrus
Odour threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point		No data available
Initial boiling point and boiling range	100 °C	
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive limits		No data available
Lower flammability or explosive limits		No data available
Flash point		No data available
Autoignition temperature		No data available
Decomposition temperature		No data available
pH	6.5 - 7.5	Concentrated solution
pH (as aqueous solution)		No data available
Kinematic viscosity		No data available
Dynamic viscosity	< 50 cP	@ 25 °C
Water solubility		No data available
Solubility(ies)		No data available
Partition coefficient		No data available
Vapour pressure		No data available
Relative density		No data available
Bulk density	1 g/mL	
Liquid Density		No data available
Vapour density		No data available
Particle characteristics		
Particle Size		No data available
Particle Size Distribution		No data available

9.2. Other information

Refractive Index	10 - 14

9.2.1. Information with regards to physical hazard classes

Explosives	
Explosive properties	Not considered to be explosive
Oxidising properties	Does not meet the criteria for classification as oxidizing

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity None under normal use conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data
Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Exposure to air or moisture over prolonged periods. Excessive heat.

10.5. Incompatible materials

Incompatible materials Acids. Bases. Oxidising agent.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. Harmful by inhalation.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing. Itching. Rashes. Hives.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral) 7,022.90 mg/kg
ATEmix (dermal) 27,704.50 mg/kg
ATEmix (inhalation-dust/mist) 3.55 mg/l

Unknown acute toxicity

14.882 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	= 795 mg/kg (Rat)	= 3412.5 mg/kg (Rabbit)	-
Didecyldimethylammonium chloride	= 84 mg/kg (Rat)	> 1000 mg/kg (Rat)	-
Isopropyl alcohol	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	> 10000 ppm (Rat) 6 h
Tetrasodium EDTA	= 1658 mg/kg (Rat)	-	-
Citric acid	= 3 g/kg (Rat)	> 2000 mg/kg (Rat)	-
D-Limonene	= 5200 mg/kg (Rat) = 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
Turpentine oil	>500 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 13.7 mg/L (Rat) 4 h
Phenyl ether	= 2450 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	-
Trisodium nta	= 1100 mg/kg (Rat)	-	> 5 mg/L (Rat) 4 h
Sodium hydroxide	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes severe skin burns and eye damage.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye damage. Causes burns.

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
Vantocil TG (PHMB20)	Carc. 2
Trisodium nta	Carc. 2

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.
H373 - May cause damage to the following organs through prolonged or repeated exposure if inhaled: respiratory tract [inhalation].

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Unknown aquatic toxicity Contains 10.142 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1	EC50: 0.01 mg/L (72h, Pseudokirchneriella subcapitata)	LC50 0.515 mg/L (96h, Lepomis macrochirus)	-	EC50: 0.016 mg/L (48h, Daphnia magna)
Didecyldimethylammonium chloride 7173-51-5	-	LC50: =0.97mg/L (96h, Danio rerio)	-	-
Isopropyl alcohol 67-63-0	EC50: >1000mg/L (96h, Desmodesmus subspicatus) EC50: >1000mg/L (72h, Desmodesmus subspicatus)	LC50: =9640mg/L (96h, Pimephales promelas) LC50: =11130mg/L (96h, Pimephales promelas) LC50: >1400000µg/L (96h, Lepomis macrochirus)	-	EC50: =13299mg/L (48h, Daphnia magna)
Tetrasodium EDTA 64-02-8	-	LC50: =41mg/L (96h, Lepomis macrochirus) LC50: =59.8mg/L (96h, Pimephales promelas)	-	-
Citric acid 77-92-9	-	LC50: =1516mg/L (96h, Lepomis macrochirus)	-	-
D-Limonene 5989-27-5	-	LC50: 0.619 - 0.796mg/L (96h, Pimephales promelas) LC50: =35mg/L (96h, Oncorhynchus mykiss)	-	-
Turpentine oil 8006-64-2	EL50: 16.4 mg/L (72h, Desmodesmus subspicatus)	LL50: 29 mg/L (96h, Danio rerio)	-	EL50: 8.8 mg/L (48h, Daphnia magna)
Phenyl ether 101-84-8	-	LC50: =4mg/L (96h, Pimephales promelas)	-	LC50: 0.11 - 1.1mg/L (48h, Daphnia magna)

		LC50: 4 - 7.9mg/L (96h, Pimephales promelas)		
Trisodium nta 5064-31-3	-	LC50: 93 - 170mg/L (96h, Pimephales promelas) LC50: 175 - 225mg/L (96h, Lepomis macrochirus) LC50: =252mg/L (96h, Lepomis macrochirus) LC50: =470mg/L (96h, Pimephales promelas) LC50: 560 - 1000mg/L (96h, Oryzias latipes) LC50: 72 - 133mg/L (96h, Oncorhynchus mykiss) LC50: 560 - 1000mg/L (96h, Poecilia reticulata) LC50: =114mg/L (96h, Pimephales promelas)	-	LC50: 560 - 1000mg/L (48h, Daphnia magna)
Sodium hydroxide 1310-73-2	-	LC50: =45.4mg/L (96h, Oncorhynchus mykiss)	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	2.75
Didecyldimethylammonium chloride	2.58
Isopropyl alcohol	0.05
Citric acid	-1.72
D-Limonene	4.38
Phenyl ether	4.21

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1	The substance is not PBT / vPvB
Didecyldimethylammonium chloride 7173-51-5	The substance is not PBT / vPvB
Isopropyl alcohol 67-63-0	The substance is not PBT / vPvB
Tetrasodium EDTA 64-02-8	The substance is not PBT / vPvB
Citric acid	The substance is not PBT / vPvB

77-92-9	
D-Limonene 5989-27-5	The substance is not PBT / vPvB
Turpentine oil 8006-64-2	The substance is not PBT / vPvB
Phenyl ether 101-84-8	The substance is not PBT / vPvB
Trisodium nta 5064-31-3	The substance is not PBT / vPvB
Sodium hydroxide 1310-73-2	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

12.7. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

IMDG

14.1 UN number or ID number UN1903
14.2 UN proper shipping name DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, Didecyldimethylammonium chloride)
14.3 Transport hazard class(es) 8
14.4 Packing group III
Description UN1903, DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES, DIDECYLDIMETHYLAMMONIUM CHLORIDE), 8, III
14.5 Environmental hazards Yes
14.6 Special Precautions for Users
Special Provisions 223, 274
EmS-No F-A, S-B
14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN number UN1903
14.2 UN proper shipping name DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, Didecyldimethylammonium chloride)
14.3 Transport hazard class(es) 8
14.4 Packing group III
Description UN1903, DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, Didecyldimethylammonium chloride),

	8, III
14.5 Environmental hazards	Yes
14.6 Special Precautions for Users	
Special Provisions	274
Classification code	C9

ADR

14.1 UN number or ID number	UN1903
14.2 UN proper shipping name	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, Didecyldimethylammonium chloride)
14.3 Transport hazard class(es)	8
14.4 Packing group	III
Description	UN1903, DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, Didecyldimethylammonium chloride), 8, III
14.5 Environmental hazards	Yes
14.6 Special Precautions for Users	
Special Provisions	274
Classification code	C9
Tunnel restriction code	(E)

IATA

14.1 UN number or ID number	UN1903
14.2 UN proper shipping name	Disinfectant, liquid, corrosive, n.o.s. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, Didecyldimethylammonium chloride)
14.3 Transport hazard class(es)	8
14.4 Packing group	III
Description	UN1903, Disinfectant, liquid, corrosive, n.o.s. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, Didecyldimethylammonium chloride), 8, III
14.5 Environmental hazards	Yes
14.6 Special Precautions for Users	
Special Provisions	A3, A803
ERG Code	8L
Note:	None

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Isopropyl alcohol 67-63-0	RG 84
D-Limonene 5989-27-5	RG 84
Turpentine oil 8006-64-2	RG 65,RG 84

Germany

Water hazard class (WGK) obviously hazardous to water (WGK 2)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Didecyldimethylammonium chloride - 7173-51-5	75.	-
Vantocil TG (PHMB20) - 27083-27-8	75.	-
Isopropyl alcohol - 67-63-0	75.	-
Tetrasodium EDTA - 64-02-8	75.	-
Citric acid - 77-92-9	75.	-
D-Limonene - 5989-27-5	75.	-
Turpentine oil - 8006-64-2	75.	-
Trisodium nta - 5064-31-3	75.	-
Sodium hydroxide - 1310-73-2	75.	-

Persistent Organic Pollutants
Not applicable

Export Notification requirements
This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 689/2008 - Annex Number
Didecyldimethylammonium chloride - 7173-51-5	I.1

Dangerous substance category per Seveso Directive (2012/18/EU)
E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not applicable

EU - Plant Protection Products (1107/2009/EC)

Chemical name	EU - Plant Protection Products (1107/2009/EC)
D-Limonene - 5989-27-5	Plant protection agent

Biocidal Products Regulation (EU) No 528/2012 (BPR)

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - 68424-85-1	Product-type 8: Wood preservatives Product-type 1: Human hygiene Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 10: Construction material preservatives Product-type 11: Preservatives for liquid-cooling and processing systems Product-type 12: Slimicides Product-type 22: Embalming and taxidermist fluids
Didecyldimethylammonium chloride - 7173-51-5	Product-type 8: Wood preservatives Product-type 1: Human hygiene Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 6: Preservatives for products during storage Product-type 10: Construction material preservatives Product-type 11: Preservatives for liquid-cooling and processing systems Product-type 12: Slimicides
Vantocil TG (PHMB20) - 27083-27-8	Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 3: Veterinary hygiene Product-type 4: Food and feed area Product-type 11: Preservatives for liquid-cooling and processing systems Product-type 1: Human hygiene Product-type 5: Drinking water Product-type 6: Preservatives for products during storage Product-type 9: Fibre, leather, rubber and polymerised materials

	preservatives
Isopropyl alcohol - 67-63-0	Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 4: Food and feed area Product-type 1: Human hygiene
Citric acid - 77-92-9	Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 6: Preservatives for products during storage

International Inventories
Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H225 - Highly flammable liquid and vapour
H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
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
H319 - Causes serious eye irritation
H330 - Fatal if inhaled
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H372 - Causes 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

Legend
ATE: Acute Toxicity Estimate
SVHC: Substances of Very High Concern for Authorisation:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method

Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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Revision Note Initial Release.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet