SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 22/09/2023 **Revision Number** 1

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

1.1. Product identifier

Product Name Prestone Corguard Anti Freeze Concentrate

Product Code(s) NQA2484, PAFR0042B, PAFR0045B, PAFR0048B, PAFR0050B, PAFR0058B, PAFR0059B, PAFR0063B

Safety data sheet number 0000009

Unique Formula Identifier (UFI) JS00-E0UM-G00C-CGGJ

Pure substance/mixture Mixture

Contains Ethylene glycol, HEPTANOIC ACID, SODIUM HYDROXIDE, sodium 4(or 5)-methyl-1H-benzotriazolide, PROPAN-1-OL

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

Recommended use Anti-freeze and de-icing products

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Manufacturer
Holts Auto
Unit 100 Barton Dock Road
Manchester
United Kingdom
M32 0YQ
For further information, please contact

Supplier
Holt Lloyd Services,
52 Rue des 40 Mines,
60000 – Allonne,
France

Contact Point www.holtsauto.com

E-mail address www.holtsauto.com

1.4. Emergency telephone number

Emergency Telephone Holt Lloyd International: UK - 00 44 (0) 161 866 4800 Office Hours - Mon - Thurs: 8am - 5pm. Fri - 8am - 1pm.
00 44 (0) 161 886 4806 (24 Hour Voicemail).

Emergency Telephone - §45 - (EC)1272/2008	
Europe	**Europe: 00 44 (0) 161 866 4800 Office Hours - Mon - Thurs: 8am - 5pm. Fri - 8am - 1pm. 00 44 (0) 161 886 4806 (24 Hour Voicemail).**
Austria	+43 1 31304 5620; chemikalien@umweltbundesamt.at
Belgium	+32022649636; info@poisoncentre.be
United Kingdom	Holt Lloyd International: UK - 00 44 (0) 161 866 4800 Office Hours - Mon - Thurs: 8am -

	5pm. Fri - 8am - 1pm. 00 44 (0) 161 886 4806 (24 Hour Voicemail).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity — repeated exposure	Category 2 - (H373)

2.2. Label elements

Contains Ethylene glycol, HEPTANOIC ACID, SODIUM HYDROXIDE, sodium 4(or 5)-methyl-1H-benzotriazolide, PROPAN-1-OL

Signal word
Danger

Hazard statements
H302 - Harmful if swallowed
H315 - Causes skin irritation
H318 - Causes serious eye damage
H332 - Harmful if inhaled
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements - EU (§28, 1272/2008)
P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves and eye/face 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.
P310 - Immediately call a POISON CENTER or doctor.
P501 - Dispose of contents/ container to an approved waste disposal plant.

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

Additional information
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)
Ethylene glycol 107-21-1	50 - <100%	01-2119456816-28-0000	203-473-3 (603-027-00-1)	Acute Tox. 4 (H302) STOT RE 2 (H373)	-	-	-
HEPTANOIC ACID 111-14-8	1 - <2.5%	No data available	203-838-7 (607-196-00-2)	Skin Corr. 1B (H314) Acute tox. 4 (H332) Eye dam. 1 (H318) STOT SE 3 (H335)	-	-	-
SODIUM HYDROXIDE 1310-73-2	0.5 - <1%	01-2119457892-27-0000	215-185-5 (011-002-00-6)	Skin Corr. 1A (H314) Met. Corr. 1 (H290) Eye Dam. 1 (H318)	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%	-	-
PHOSPHORIC ACID ...% 7664-38-2	0.025 - <0.25%	01-2119485924-24-0000	231-633-2 (015-011-00-6)	Skin Corr. 1B (H314)	Eye Irrit. 2 :: 10%<=C<25% Skin Corr. 1B :: C>=25% Skin Irrit. 2 :: 10%<=C<25%	-	-
sodium 4(or 5)-methyl-1H-benzotriazolide 64665-57-2	0.025 - <0.25%	01-2119980062-42-0000	265-004-9	Acute Tox. 4 (H302) Skin Corr. 1A (H314) Eye Dam. 1 (H318) Repr. 2 (H361) Aquatic Chronic 2 (H411)	-	-	-
PROPAN-1-OL 71-23-8	0.025 - <0.25%	01-2119486761-29-0000	200-746-9 (603-003-00-0)	Eye Dam. 1 (H318) STOT SE 3 (H336) Flam. Liq. 2 (H225)	-	-	-

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
Ethylene glycol 107-21-1	4700	10600	3.75	No data available	No data available
HEPTANOIC ACID	7000	2001	4.6	No data available	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
111-14-8					
SODIUM HYDROXIDE 1310-73-2	325	1350	No data available	No data available	No data available
PHOSPHORIC ACID ...% 7664-38-2	1530	2740	0.2125	No data available	No data available
sodium 4(or 5)-methyl-1H-benzotriazolide 64665-57-2	1980	2001	No data available	No data available	No data available
PROPAN-1-OL 71-23-8	1870	4049	33.8	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 Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. If symptoms persist, call a doctor. If breathing has stopped, give artificial respiration. Get medical attention immediately.

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

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

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

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. 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. Coughing and/ or wheezing. Difficulty in breathing.

Effects of Exposure No information available.

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

Note to doctors 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.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available.

5.3. Advice for firefighters

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 Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. 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.

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. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Take off contaminated clothing and wash it before reuse. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

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.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage class (TRGS 510) LGK 10.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Ethylene glycol 107-21-1	TWA: 20 ppm TWA: 52 mg/m^3 STEL: 40 ppm STEL: 104 mg/m^3 *	TWA: 10 ppm TWA: 26 mg/m^3 STEL 20 ppm STEL 52 mg/m^3 H*	TWA: 20 ppm TWA: 52 mg/m^3 STEL: 40 ppm STEL: 104 mg/m^3 D*	STEL: 40 ppm STEL: 104 mg/m^3 TWA: 52 mg/m^3 TWA: 20 ppm K*	TWA: 20 ppm TWA: 52 mg/m^3 STEL: 40 ppm STEL: 104 mg/m^3 *
SODIUM HYDROXIDE 1310-73-2	-	TWA: 2 mg/m^3 STEL 4 mg/m^3	TWA: 2 mg/m^3	TWA: 2.0 mg/m^3	STEL: 2 mg/m^3
PHOSPHORIC ACID ...% 7664-38-2	TWA: 1 mg/m^3 STEL: 2 mg/m^3	TWA: 1 mg/m^3 STEL 2 mg/m^3	TWA: 1 mg/m^3 STEL: 2 mg/m^3	STEL: 2.0 mg/m^3 TWA: 1.0 mg/m^3	TWA: 1 mg/m^3 STEL: 2 mg/m^3
PROPAN-1-OL 71-23-8	-	TWA: 200 ppm TWA: 500 mg/m^3	TWA: 100 ppm TWA: 250 mg/m^3	STEL: 500.0 mg/m^3 TWA: 300.0 mg/m^3	TWA: 200 ppm TWA: 500 mg/m^3 STEL: 250 ppm STEL: 625 mg/m^3

Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ethylene glycol 107-21-1	* STEL: 40 ppm STEL: 104 mg/m^3 TWA: 20 ppm TWA: 52 mg/m^3	TWA: 50 mg/m^3 Ceiling: 100 mg/m^3 D*	TWA: 10 ppm TWA: 26 mg/m^3 TWA: 10 mg/m^3 H* STEL: 104 mg/m^3 STEL: 40 ppm STEL: 20 mg/m^3	TWA: 20 ppm TWA: 52 mg/m^3 STEL: 40 ppm STEL: 104 mg/m^3 A*	TWA: 20 ppm TWA: 50 mg/m^3 STEL: 40 ppm STEL: 100 mg/m^3 iho*
SODIUM HYDROXIDE 1310-73-2	-	TWA: 1 mg/m^3 Ceiling: 2 mg/m^3	Ceiling: 2 mg/m^3	TWA: 1 mg/m^3 STEL: 2 mg/m^3	Ceiling: 2 mg/m^3
PHOSPHORIC ACID ...% 7664-38-2	STEL: 2.0 mg/m^3 TWA: 1 mg/m^3	TWA: 1 mg/m^3 Ceiling: 2 mg/m^3	TWA: 1 mg/m^3 STEL: 2 mg/m^3	TWA: 1 mg/m^3 STEL: 2 mg/m^3	TWA: 1 mg/m^3 STEL: 2 mg/m^3
PROPAN-1-OL 71-23-8	-	TWA: 500 mg/m^3 Ceiling: 1000 mg/m^3 D*	TWA: 200 ppm TWA: 500 mg/m^3 H* STEL: 400 ppm	-	TWA: 200 ppm TWA: 500 mg/m^3 STEL: 250 ppm STEL: 620 mg/m^3

			STEL: 1000 mg/m³		
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Ethylene glycol 107-21-1	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ *	TWA: 10 ppm TWA: 26 mg/m³ H*	TWA: 10 ppm TWA: 26 mg/m³ Peak: 20 ppm Peak: 52 mg/m³ *	TWA: 50 ppm TWA: 125 mg/m³ STEL: 50 ppm STEL: 125 mg/m³	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ b*
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
PHOSPHORIC ACID ...% 7664-38-2	TWA: 0.2 ppm TWA: 1 mg/m³ STEL: 0.5 ppm STEL: 2 mg/m³	TWA: 2 mg/m³	TWA: 2 mg/m³ Peak: 4 mg/m³	TWA: 1 mg/m³ STEL: 3 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³
PROPAN-1-OL 71-23-8	TWA: 200 ppm TWA: 500 mg/m³	-	-	TWA: 200 ppm TWA: 500 mg/m³ STEL: 250 ppm STEL: 625 mg/m³	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Ethylene glycol 107-21-1	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ cute*	TWA: 25 ppm STEL: 50 ppm STEL: 10 mg/m³	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Ada*	STEL: 20 ppm STEL: 50 mg/m³ TWA: 10 ppm TWA: 25 mg/m³ O*
SODIUM HYDROXIDE 1310-73-2	STEL: 2 mg/m³	-	Ceiling: 2 mg/m³	TWA: 0.5 mg/m³	Ceiling: 2 mg/m³
PHOSPHORIC ACID ...% 7664-38-2	TWA: 1 mg/m³ STEL: 2 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³	TWA: 1 mg/m³ STEL: 3 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³	STEL: 2 mg/m³ TWA: 1 mg/m³
PROPAN-1-OL 71-23-8	TWA: 100 ppm STEL: 300 ppm Sk*	-	TWA: 100 ppm TWA: 246 mg/m³	TWA: 10 mg/m³	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Ethylene glycol 107-21-1	STEL: 40 ppm STEL: 104 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ Peau*	STEL: 40 ppm STEL: 104 mg/m³ skin* TWA: 20 ppm TWA: 52 mg/m³	TWA: 52 mg/m³ TWA: 10 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ H*	TWA: 20 ppm TWA: 52 mg/m³ STEL: 104 mg/m³ STEL: 40 ppm H*	STEL: 50 mg/m³ TWA: 15 mg/m³ skóra*
SODIUM HYDROXIDE 1310-73-2	-	-	-	Ceiling: 2 mg/m³	STEL: 1 mg/m³ TWA: 0.5 mg/m³
PHOSPHORIC ACID ...% 7664-38-2	STEL: 2 mg/m³ TWA: 1 mg/m³	STEL: 2 mg/m³ TWA: 1 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³	TWA: 1 mg/m³ STEL: 3 mg/m³	STEL: 2 mg/m³ TWA: 1 mg/m³
PROPAN-1-OL 71-23-8	-	-	-	TWA: 100 ppm TWA: 245 mg/m³ STEL: 150 ppm STEL: 306.25 mg/m³ H*	STEL: 600 mg/m³ TWA: 200 mg/m³ skóra*
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Ethylene glycol 107-21-1	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Ceiling: 100 mg/m³ Cutânea*	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ P*	TWA: 20 ppm TWA: 52 mg/m³ K* Ceiling: 104 mg/m³	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ K*	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ vía dérmica*
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
PHOSPHORIC ACID ...% 7664-38-2	TWA: 1 mg/m³ STEL: 2 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³	TWA: 1 mg/m³ Ceiling: 2 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³
PROPAN-1-OL	TWA: 200 ppm	TWA: 81 ppm	-	-	TWA: 200 ppm

71-23-8	STEL: 400 ppm	TWA: 200 mg/m^3 STEL: 203 ppm STEL: 500 mg/m^3			TWA: 500 mg/m^3 STEL: 400 ppm STEL: 1000 mg/m^3 vía dérmica*

Chemical name	Sweden	Switzerland	United Kingdom
Ethylene glycol 107-21-1	Bindande KGV: 40 ppm Bindande KGV: 104 mg/m^3 NGV: 10 ppm NGV: 25 mg/m^3 H*	TWA: 10 ppm TWA: 26 mg/m^3 STEL: 20 ppm STEL: 52 mg/m^3 H*	TWA: 10 mg/m^3 TWA: 20 ppm TWA: 52 mg/m^3 STEL: 40 ppm STEL: 104 mg/m^3 STEL: 30 mg/m^3 Sk*
SODIUM HYDROXIDE 1310-73-2	Bindande KGV: 2 mg/m^3 NGV: 1 mg/m^3	TWA: 2 mg/m^3 STEL: 2 mg/m^3	STEL: 2 mg/m^3
PHOSPHORIC ACID ...% 7664-38-2	Bindande KGV: 2 mg/m^3 NGV: 1 mg/m^3	TWA: 2 mg/m^3 STEL: 4 mg/m^3	TWA: 1 mg/m^3 STEL: 2 mg/m^3
PROPAN-1-OL 71-23-8	Vägledande KGV: 250 ppm Vägledande KGV: 600 mg/m^3 NGV: 150 ppm NGV: 350 mg/m^3	TWA: 200 ppm TWA: 500 mg/m^3 H*	TWA: 200 ppm TWA: 500 mg/m^3 STEL: 250 ppm STEL: 625 mg/m^3 Sk*

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Ethylene glycol 107-21-1	-	106 mg/kg bw/day [4] [6]	35 mg/m^3 [5] [6]
HEPTANOIC ACID 111-14-8	-	14 mg/kg bw/day [4] [6]	98.7 mg/m^3 [4] [6]
SODIUM HYDROXIDE 1310-73-2	-	-	1 mg/m^3 [5] [6]
Neodecanoic acid 26896-20-8	-	29 mg/kg bw/day [4] [6]	86 mg/m^3 [4] [6]
sodium 4(or 5)-methyl-1H-benzotriazolide 64665-57-2	-	0.5 mg/kg bw/day [4] [6]	8.8 mg/m^3 [4] [6]
PROPAN-1-OL 71-23-8	-	136 mg/kg bw/day [4] [6]	268 mg/m^3 [4] [6] 1723 mg/m^3 [4] [7]
Denatonium Benzoate 3734-33-6	-	1.43 mg/kg bw/day [4] [6]	4.99 mg/m^3 [4] [6]

Notes

[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
Ethylene glycol 107-21-1	-	-	7 mg/m^3 [5] [6]

Chemical name	Oral	Dermal	Inhalation
HEPTANOIC ACID 111-14-8	5 mg/kg bw/day [4] [6]	-	8.7 mg/m^3 [4] [6]
SODIUM HYDROXIDE 1310-73-2	-	-	1 mg/m^3 [5] [6]
Neodecanoic acid 26896-20-8	17.5 mg/kg bw/day [4] [6]	-	25.79 mg/m^3 [4] [6]
sodium 4(or 5)-methyl-1H-benzotriazolide 64665-57-2	0.25 mg/kg bw/day [4] [6] 0.54 mg/kg bw/day [4] [7]	-	4.4 mg/m^3 [4] [6]
PROPAN-1-OL 71-23-8	61 mg/kg bw/day [4] [6]	-	80 mg/m^3 [4] [6] 1036 mg/m^3 [4] [7]
Denatonium Benzoate 3734-33-6	0.51 mg/kg bw/day [4] [6]	-	0.768 mg/m^3 [4] [6]

Notes

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

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Ethylene glycol 107-21-1	10 mg/L	10 mg/L	1 mg/L	10 mg/L	-
HEPTANOIC ACID 111-14-8	0.4 mg/L	0.612 mg/L	0.04 mg/L	-	-
Neodecanoic acid 26896-20-8	0.11 mg/L	-	0.011 mg/L	-	-
sodium 4(or 5)-methyl-1H-benzotriazolide 64665-57-2	0.008 mg/L	0.086 mg/L	0.008 mg/L	-	-
PROPAN-1-OL 71-23-8	6.83 mg/L	10 mg/L	0.683 mg/L	-	-
Denatonium Benzoate 3734-33-6	0.1 mg/L	1 mg/L	10 µg/L	0.1 mg/L	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Ethylene glycol 107-21-1	37 mg/kg sediment dw	3.7 mg/kg sediment dw	199.5 mg/L	1.53 mg/kg soil dw	-
HEPTANOIC ACID 111-14-8	2.08 mg/kg sediment dw	0.21 mg/kg sediment dw	1000 mg/L	0.12 mg/kg soil dw	-
Neodecanoic acid 26896-20-8	-	-	-	-	0.0167 g/kg food
sodium 4(or 5)-methyl-1H-benzotriazolide 64665-57-2	0.0025 mg/kg sediment dw	0.0025 mg/kg sediment dw	39.4 mg/L	0.0024 mg/kg soil dw	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
PROPAN-1-OL 71-23-8	27.5 mg/kg sediment dw	2.75 mg/kg sediment dw	96 mg/L	1.49 mg/kg soil dw	-
Denatonium Benzoate 3734-33-6	25 mg/kg sediment dw	2.5 mg/kg sediment dw	-	4.95 mg/kg soil dw	-

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

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.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Colour yellow
Odour Characteristic mild.
Odour threshold No information available

Property	Values	Remarks • Method
Melting point / freezing point	-36.7 °C	None known
Initial boiling point and boiling range	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	8.30	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	Soluble in water	None known

Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	1.117 @ 20°C	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

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 Excessive heat.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

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. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. May cause redness and tearing of the eyes. Coughing and/ or wheezing.

Acute toxicity

Numerical measures of toxicity

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

ATEmix (oral)	1,704.40 mg/kg
ATEmix (dermal)	3,575.60 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapour)	99,999.00 mg/l
ATEmix (inhalation-dust/mist)	3.92 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene glycol	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat)	> 2.5 mg/L (Rat) 6 h
HEPTANOIC ACID	= 7000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 4.6 mg/L (Rat) 4 h
SODIUM HYDROXIDE	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-
PHOSPHORIC ACID ...%	= 1530 mg/kg (Rat)	= 2740 mg/kg (Rabbit)	> 850 mg/m^3 (Rat) 1 h
sodium 4(or 5)-methyl-1H-benzotriazolide	= 1980 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
PROPAN-1-OL	= 1870 mg/kg (Rat)	= 4049 mg/kg (Rabbit)	> 33.8 mg/L (Rat) 4 h

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 skin irritation.

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

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethylene glycol	EC50: 6500 - 13000mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =41000mg/L (96h, Oncorhynchus mykiss) LC50: 14 - 18mL/L (96h, Oncorhynchus mykiss) LC50: =27540mg/L (96h, Lepomis macrochirus) LC50: =40761mg/L (96h, Oncorhynchus mykiss) LC50: 40000 - 60000mg/L (96h, Pimephales promelas) LC50: =16000mg/L (96h, Poecilia reticulata)	-	EC50: =46300mg/L (48h, Daphnia magna)

HEPTANOIC ACID	-	LC50: >92mg/L (96h, Pimephales promelas)	-	-
SODIUM HYDROXIDE	-	LC50: =45.4mg/L (96h, Oncorhynchus mykiss)	-	-
PROPAN-1-OL	-	LC50: =4480mg/L (96h, Pimephales promelas)	-	EC50: =3642mg/L (48h, Daphnia magna) EC50: 3339 - 3977mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Ethylene glycol	-1.36
HEPTANOIC ACID	2.72
PHOSPHORIC ACID ...%	-0.9
sodium 4(or 5)-methyl-1H-benzotriazolide	1.091
PROPAN-1-OL	0.2

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Ethylene glycol	The substance is not PBT / vPvB
HEPTANOIC ACID	The substance is not PBT / vPvB
SODIUM HYDROXIDE	The substance is not PBT / vPvB
PHOSPHORIC ACID ...%	The substance is not PBT / vPvB
sodium 4(or 5)-methyl-1H-benzotriazolide	The substance is not PBT / vPvB
PROPAN-1-OL	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. 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.

SECTION 14: Transport information

IATA

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	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
Ethylene glycol - 107-21-1	RG 84

PROPAN-1-OL - 71-23-8	RG 84

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

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
HEPTANOIC ACID - 111-14-8	75.	-
SODIUM HYDROXIDE - 1310-73-2	75.	-
PHOSPHORIC ACID ...% - 7664-38-2	75.	-
PROPAN-1-OL - 71-23-8	75.	-

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

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

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
PROPAN-1-OL - 71-23-8	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

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

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
H290 - May be corrosive to metals
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H361 - Suspected of damaging fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects

Legend
SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

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

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
Agency for Toxic Substances and Disease Registry (ATSDR)
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)
National Institute of Technology and Evaluation (NITE)
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 Library of Medicine’s PubMed database (NLM PUBMED)
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

Revision date 22/09/2023

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
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

Europe

EU SDS version information - EGHS
UL release:
GHS Revision 7
2022 Q1

Europe Partial process, including GHS Wizard, NO TW

Specific target organ toxicity — repeated exposure	Category 2

Full text of H-Statements referred to under section 3: H225 - Highly flammable liquid and vapour H290 - May be corrosive to metals H302 - Harmful if swallowed H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage H332 - Harmful if inhaled H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness H361 - Suspected of damaging fertility or the unborn child H373 - May cause damage to organs through prolonged or repeated exposure H411 - Toxic to aquatic life with long lasting effects

Chemical name	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)
Ethylene glycol	Acute Tox. 4 (H302) STOT RE 2 (H373)	
HEPTANOIC ACID	Skin Corr. 1B (H314) Acute tox. 4 (H332)	

	Eye dam. 1 (H318) STOT SE 3 (H335)	
SODIUM HYDROXIDE	Skin Corr. 1A (H314) Met. Corr. 1 (H290) Eye Dam. 1 (H318)	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%
PHOSPHORIC ACID ...%	Skin Corr. 1B (H314)	Eye Irrit. 2 :: 10%<=C<25% Skin Corr. 1B :: C>=25% Skin Irrit. 2 :: 10%<=C<25%
sodium 4(or 5)-methyl-1H-benzotriazolide	Acute Tox. 4 (H302) Skin Corr. 1A (H314) Eye Dam. 1 (H318) Repr. 2 (H361) Aquatic Chronic 2 (H411)	
PROPAN-1-OL	Eye Dam. 1 (H318) STOT SE 3 (H336) Flam. Liq. 2 (H225)	

Chemical name	CAS No.	French RG number
Ethylene glycol	107-21-1	RG 84
PROPAN-1-OL	71-23-8	RG 84

Storage class (TRGS 510) LGK 10