



Safety Data Sheet according to HPR, Schedule 1

Printing date 05/24/2023

Version 5.00

Reviewed on 05/24/2023

Trade name: PureClin SAN

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Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-, mono-C12-14-alkyl ethers, phosphates
1,8(9)p-menthadien

Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H304 May be fatal if swallowed and enters airways.

Precautionary statements

P280 Wear protective gloves / eye protection.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P331 Do NOT induce vomiting.
P302+P352 If on skin: Wash with plenty of water.
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/doctor.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/Information on ingredients

Chemical characterization: Mixtures
CAS-No. Components:

CAS: 68551-19-9	Alkanes, C12-14-iso-	30 – 60% w/w
CAS: 577-11-7	Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt	$\geq 5 - < 10\%$ w/w
CAS: 69011-36-5	Poly(oxy-1,2-ethanediyl), α -tridecyl- ω -hydroxy-, branched	3 – 7% w/w
CAS: 68511-37-5	Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-, mono-C12-14-alkyl ethers, phosphates	3 – 7% w/w
CAS: 34590-94-8	Propanol, 1(or 2)-(2-methoxymethylethoxy)-	1 – 5% w/w
CAS: 68424-85-1	quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	$\geq 1 - < 3\%$ w/w
CAS: 122-99-6	2-phenoxyethanol	$\geq 1 - < 1.5\%$ w/w
CAS: 78-96-6	2-Propanol, 1-amino-	$\geq 1 - < 1.5\%$ w/w

4 First-aid measures

Description of first aid measures

- **General information** Immediately remove any clothing soiled by the product.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact**
Immediately rinse with water.
If skin irritation continues, consult a doctor.
- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

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- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed**
Eye damage
Skin irritation
If swallowed or in case of vomiting, danger of entering the lungs
- **Indication of any immediate medical attention and special treatment needed**
Symptomatic treatment

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.
- **Additional information**
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Do not breathe gases/ vapours.
Avoid contact with eyes and skin.
Keep away from ignition sources
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable receptacles.

7 Handling and storage

- **Handling**
- **Precautions for safe handling**
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Avoid contact with eyes and skin.

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- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Protect from heat and direct sunlight.
Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.
Protect from frost.
- **Specific end use(s)** Dry-cleaning

8 Exposure controls/ Personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

CAS: 34590-94-8 Propanol, 1(or 2)-(2-methoxymethylethoxy)-

EL	STEL: 150 ppm TWA: 100 ppm
EV	STEL: 910 mg/m ³ , 150 ppm TWA: 605 mg/m ³ , 100 ppm

CAS: 122-99-6 2-phenoxyethanol

EV	TWA: 141 mg/m ³ , 25 ppm Skin
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· Regulatory information

EL: OHS Guidelines Part 5, Table of Exposure Limits for Chemical and Biological Substances
EV: O. Reg. 287/17

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Personal protective equipment

· General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Do not eat, drink, smoke or sniff while working.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.

· Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation (exceeding the workplace limit values, formation of aerosols).

· Protection of hands:

Protective gloves.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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- **Material of gloves**

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed goggles.

- **Body protection:** Protective work clothing.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

- **Form:**

Fluid

- **Color:**

Light yellow

- **Odor:**

Product specific

- **Odor threshold:**

No further relevant information available.

- **pH-value (100 g/l) at 20 °C (68 °F):**

~ 7.4

- **Melting point/Melting range:**

not applicable

- **Boiling point/Boiling range:**

undetermined

- **Flash point:**

> 95 °C (> 203 °F) (EN 22719)

- **Flammability (solid, gaseous)**

No further relevant information available.

- **Ignition temperature:**

No further relevant information available.

- **Decomposition temperature:**

No further relevant information available.

- **Auto igniting:**

Product is not selfigniting.

- **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**

- **Lower:**

No further relevant information available.

- **Upper:**

No further relevant information available.

- **Oxidizing properties**

No further relevant information available.

- **Vapor pressure:**

No further relevant information available.

- **Density at 20 °C (68 °F):**

~ 0.9 g/cm³ (ISO 2811)

- **Relative density**

No further relevant information available.

- **Vapor density**

No further relevant information available.

- **Evaporation rate**

No further relevant information available.

- **Solubility in / Miscibility with**

- **Water:**

Fully miscible

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- **Partition coefficient (n-octanol/water):** No further relevant information available.
- **Viscosity:**
 - Dynamic viscosity:** No further relevant information available.
 - Kinematic viscosity at 40 °C (104 °F):** < 20.5 mm²/s
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
Stable under normal ambient conditions.
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Strong oxidizing agents
- **Hazardous decomposition products:** No dangerous decomposition products known

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity (Oral, Dermal, by Inhalation)**

- **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimate)

Oral	LD50	25,600 mg/kg
Dermal	LD50	165,268 mg/kg (rabbit)

CAS: 68551-19-9 Alkanes, C12-14-iso-

Oral	LD50	> 5,000 mg/kg (rat) (OECD 401 (similar substance))
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CAS: 577-11-7 Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt

Oral	LD50	3,000 mg/kg (rat)
Dermal	LD50	> 10,000 mg/kg (rabbit)

CAS: 69011-36-5 Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-, branched

Oral	LD50	> 5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	> 5,000 mg/kg (-)

CAS: 34590-94-8 Propanol, 1(or 2)-(2-methoxymethylethoxy)-

Oral	LD50	> 5,000 mg/kg (rat)
Dermal	LD50	9,510 mg/kg (rabbit)

CAS: 68424-85-1 quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Oral	LD50	795 mg/kg (rat)
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CAS: 122-99-6 2-phenoxyethanol

Oral LD50 1,394 mg/kg (ATE)

CAS: 78-96-6 2-Propanol, 1-amino-

Oral LD50 2,813 mg/kg (rat)

Dermal LD50 1,851 mg/kg (rabbit)

- **SKIN - Skin corrosion/irritation** Causes skin irritation.
- **EYE - Serious eye damage/irritation** Causes serious eye damage.
- **By Inhalation or by skin - Respiratory or skin sensitisation**
No further relevant information available.
- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** No further relevant information available.
- **Carcinogenicity** No further relevant information available.
- **Reproductive toxicity** No further relevant information available.
- **Specific target organ toxicity – single exposure** No further relevant information available.
- **Specific target organ toxicity – repeated exposure** No further relevant information available.
- **Aspiration hazard** May be fatal if swallowed and enters airways.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

CAS: 68551-19-9 Alkanes, C12-14-iso-

EL50 > 1,000 mg/l (algae/aquatic plants) (72 h; Pseudokirchneriella subcapitata; OECD 201)

> 1,000 mg/l (crustacean) (48 h; Daphnia magna; OECD 202)

NOEL 0.316 mg/l (fish) (28 d; Oncorhynchus mykiss; QSAR)

LL50 > 1,000 mg/l (fish) (96 h; Oncorhynchus mykiss ; OECD 203)

CAS: 577-11-7 Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt

EC50 82.5 mg/l (algae/aquatic plants) (72 h; Desmodesmus subspicatus)

35 mg/l (crustacean) (48 h; Daphnia magna)

LC50 49 mg/l (fish) (96 h; Danio rerio)

EC10 34 mg/l (algae/aquatic plants) (72 h; Desmodesmus subspicatus)

122 mg/l (Bacteria) (16 h; Pseudomonas putida)

9 mg/l (crustacean) (21 d; Daphnia magna)

CAS: 69011-36-5 Poly(oxy-1,2-ethanediyl), α -tridecyl- ω -hydroxy-, branched

EC50 > 1 – 10 mg/l (algae/aquatic plants) (72 h; Desmodesmus subspicatus; OECD 201)

> 1 – 10 mg/l (crustacean) (48 h; Daphnia magna; OECD 202)

LC50 > 1 – 10 mg/l (fish) (96 h; Cyprinus carpio; OECD 203)

NOEC 1.36 mg/l (crustacean) (21 d; Daphnia magna; QSAR)

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CAS: 34590-94-8 Propanol, 1(or 2)-(2-methoxymethylethoxy)-

EC50	> 969 mg/l (algae/aquatic plants) (96 h; Pseudokirchneriella subcapitata; OECD 201)
	1,919 mg/l (crustacean) (48 h; Daphnia magna; OECD 202)
LC50	10,000 mg/l (fish) (96 h; Pimephales promelas)
EC10	4,168 mg/l (Bacteria) (18 h; Pseudomonas putida)
NOEC	0.5 mg/l (crustacean) (22 d; Daphnia magna; OECD 211)

CAS: 68424-85-1 quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

EC50	0.025 mg/l (algae/aquatic plants) (72 h; Selenastrum capricornutum; OECD 201)
	0.016 mg/l (crustacean) (48 h; Daphnia)
LC50	0.85 mg/l (fish) (96 h; Oncorhynchus mykiss; OECD 203)
NOEC	0.025 mg/l (crustacean) (21 d; Daphnia; OECD 211)

CAS: 78-96-6 2-Propanol, 1-amino-

EC50	32.7 mg/l (algae/aquatic plants) (72 h; Scenedesmus subspicatus)
	108.8 mg/l (crustacean) (48 h; Daphnia magna)
LC50	> 215 – < 464 mg/l (fish) (96 h; Leuciscus idus)

Persistence and degradability
CAS: 577-11-7 Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt

ISO 14593 91 % (-) (28 days)

Behavior in environmental systems:
Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:
General notes:

Do not allow product to reach ground water, water course or sewage system.

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.

Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods
Recommendation: Disposal must be made according to official regulations.

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

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14 Transport information

· UN-Number	
· DOT/TDG, ADR, IMDG, IATA	Void
· UN proper shipping name	
· DOT/TDG, ADR, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT/TDG, ADR, IMDG, IATA	Void
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

15 Regulatory information

· Canadian substance lists

· Canadian domestic substance list (DSL):

All ingredients are listed.

· Canadian ingredient disclosure list (limit 0.1%):

None of the ingredients is listed.

· Canadian ingredient disclosure list (limit 1%):

CAS: 577-11-7	Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt
CAS: 34590-94-8	Propanol, 1(or 2)-(2-methoxymethylethoxy)-
CAS: 122-99-6	2-phenoxyethanol
CAS: 78-96-6	2-Propanol, 1-amino-

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

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· Canadian Non-Domestic Substances List (NDSL)

None of the ingredients is listed.

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- **National regulations:**

- **Other regulations, limitations and prohibitive regulations**

- **Please note:**

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyers responsibility to ensure that its activities comply with Federal, State or provincial, and local laws. The following specific information is made for the purpose of complying with numerous laws and regulations.

- **Other information:** The product has been designed for professional use only.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Contact:**

- **Date of the latest revision of the safety data sheet 05/24/2023**

- **Abbreviations and acronyms:**

LL50: Lethal loading, 50%

NOEC: No Observed Effect Concentration

ErC50: Effective Concentration 50%, growth rate

EC50: Effective Concentration 50%

EL50: Effect loading, 50%

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- *** Data compared to the previous version altered.**

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