

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

### 1.1 Product identifier

Trade name: **WASH & PEARL**

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

No further relevant information available.

### Application of the substance / the mixture

Cleaning and maintenance agent

Only for proper handling.

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

MOTOREX AG

Bern–Zürich–Strasse 31, Postfach

CH–4901 Langenthal

Tel. +41 (0)62 919 75 75

www.motorex.com

Further information obtainable from: [msds@motorex.com](mailto:msds@motorex.com)

### 1.4 Emergency telephone number:

In case of a medical emergency following exposure to a chemical, the public should call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 (UK only).

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

#### Hazard pictograms



GHS07

#### Signal word Warning

#### Hazard statements

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear eye protection / 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.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

# Safety data sheet

## according to UK REACH



Printing date 24.07.2025

Version number 6.0 (replaces version 5.1)

Revision: 24.07.2025

**Trade name: WASH & PEARL**

(Contd. of page 1)

**Additional information:**

Contains 1,2-benzisothiazol-3(2H)-one, Amyl cinnamal, Yarmor Pine oil, synthetic. May produce an allergic reaction.

Contains biocidal products: 1,2-benzisothiazol-3(2H)-one

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:**

541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclpentasiloxane
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**vPvB:**

541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclpentasiloxane
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### SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

**Description:** Mixture of substances

**Dangerous components:**

CAS: 68551-13-3	alcohols, C12-15 ethoxylated propoxylated Eye Irrit. 2, H319	10%
	NP 200314 (Cyclomin 18-OH E) / 200319 (Citronensäure, Monohydrat) Aquatic Chronic 3, H412	2.5-7.5%
CAS: 519142-86-0	Silicone Quaternium-17 Aquatic Chronic 2, H411	2.5-7.5%
CAS: 166736-08-9	2-propylheptanol ethoxylated, propoxylated Eye Dam. 1, H318; Acute Tox. 4, H302	1-2.5%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0 Reg.nr.: 01-2119475108-36	2-butoxyethanol Acute Tox. 3, H331; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥0.25-≤2.5%
CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44	2-(2-butoxyethoxy)ethanol Eye Irrit. 2, H319	0.25-1%
CAS: 541-02-6 EINECS: 208-764-9 Reg.nr.: 01-2119511367-43	2,2,4,4,6,6,8,8,10,10-decamethylcyclpentasiloxane Non-classified vPvB substance. Non-classified PBT substance. Substance identified as having endocrine disrupting properties (II).	≥0-≤1%
EC number: 931-745-8	Imidazolium compounds, 2-C17-unsatd.-alkyl-1-(2- C18-unsatd.amidoethyl)-4,5-dihydro-N-methyl, Me sulfates Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); Skin Irrit. 2, H315; Eye Irrit. 2, H319	0.25-1%
CAS: 3388-72-5 EINECS: 222-218-7	2-(heptadec-8-enyl)-4,5-dihydro-1-(2-hydroxyethyl)- 1H-imidazolium acetate Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Skin Irrit. 2, H315	≥0.25-<1%

(Contd. on page 3)

# Safety data sheet

## according to UK REACH



Printing date 24.07.2025

Version number 6.0 (replaces version 5.1)

Revision: 24.07.2025

**Trade name: WASH & PEARL**

(Contd. of page 2)

CAS: 8002-09-3	Yarmor Pine oil, synthetic Asp. Tox. 1, H304; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥0.1-<0.25%
CAS: 556-67-2 EINECS: 209-136-7 Index number: 014-018-00-1 Reg.nr.: 01-2119529238-36	octamethylcyclotetrasiloxane Flam. Liq. 3, H226; Repr. 2, H361f; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10) PBT; vPvB	≥0.025-≤0.1%
CAS: 122-40-7 EINECS: 204-541-5	Amyl cinnamal Aquatic Chronic 2, H411; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥0.1 %	≥0-<0.1%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6 Reg.nr.: 01-2120761540-60	1,2-benzisothiazol-3(2H)-one Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥0.036 %	≥0-<0.025%

**· SVHC**

541-02-6 | 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

**· Regulation (EC) No 648/2004 on detergents / Labelling for contents**

non-ionic surfactants, perfumes (Amyl cinnamal, 4-tert-butylcyclohexyl acetate),  
preservation agents (BENZISOTHIAZOLINONE, BENZISOTHIAZOLINONE, Mixture of 5-  
Chloro-2-methyl-isothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one with magnesium  
chloride and magnesium nitrate)

&lt;5%

**· Additional information:** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****· 4.1 Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Wash affected skin thoroughly with water.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

**· 4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**· 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****· 5.1 Extinguishing media****· Suitable extinguishing agents:**

Non-combustible product.

Use fire extinguishing methods suitable to surrounding conditions.

**· 5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

**· 5.3 Advice for firefighters****· Protective equipment:** No special measures required.

GB

(Contd. on page 4)

# Safety data sheet according to UK REACH



Printing date 24.07.2025

Version number 6.0 (replaces version 5.1)

Revision: 24.07.2025

Trade name: WASH &amp; PEARL

(Contd. of page 3)

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:**
  - Do not allow product to reach sewage system or any water course.
  - Inform respective authorities in case of seepage into water course or sewage system.
  - Dilute with plenty of water.
  - Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to section 13.
- **6.4 Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** The product is not flammable.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:**
  - Store away from foodstuffs.
  - Store away from flammable substances.
- **Further information about storage conditions:**
  - The recommended storage temperature is (deg.C): 5-50°C
  - Keep container tightly sealed.
- **Storage class:** 12
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

#### · Ingredients with limit values that require monitoring at the workplace:

##### 111-76-2 2-butoxyethanol

WEL Short-term value: 246 mg/m<sup>3</sup>, 50 ppm  
Long-term value: 123 mg/m<sup>3</sup>, 25 ppm  
Sk, BMGV

##### 112-34-5 2-(2-butoxyethoxy)ethanol

WEL Short-term value: 101.2 mg/m<sup>3</sup>, 15 ppm  
Long-term value: 67.5 mg/m<sup>3</sup>, 10 ppm

#### · DNELs

##### 111-76-2 2-butoxyethanol

Oral	DNEL/general population/Systemic effects/Long-term	6.3 mg/kg/24h (consumer)
	DNEL/general pop/Systemic effects/acute-short term	26.7 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	125 mg/kg/24h (worker)
	DNEL/Workers/Systemic effects/acute-short term	89 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	75 mg/kg/24h (consumer)
	DNEL/general pop/Systemic effects/acute-short term	89 mg/kg/24h (consumer)

(Contd. on page 5)

# Safety data sheet according to UK REACH



Printing date 24.07.2025

Version number 6.0 (replaces version 5.1)

Revision: 24.07.2025

**Trade name: WASH & PEARL**

(Contd. of page 4)

Inhalative	DNEL / Workers / Systemic effects / Long-term	98 mg/m3 (worker)
	DNEL/Workers/Systemic effects/acute-short term	1,091 mg/m3 (worker)
	DNEL/Workers/Local effects/acute-short term	246 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	59 mg/m3 (consumer)
	DNEL/general pop/Systemic effects/acute-short term	426 mg/m3 (consumer)
	DNEL/general pop/Local effects/acute-short term	147 mg/m3 (consumer)

**112-34-5 2-(2-butoxyethoxy)ethanol**

Oral	DNEL/general population/Systemic effects/Long-term	5 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	83 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	50 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	67.5 mg/m3 (worker)
	DNEL/Workers/Local effects/acute-short term	101.2 mg/m3 (worker)
	DNEL / Workers / Local Effects / Long-term	67.5 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	40.5 mg/m3 (consumer)
	DNEL/general pop/Local effects/acute-short term	60.7 mg/m3 (consumer)
	DNEL/general population/Local effects/Long-term	40.5 mg/m3 (consumer)

**541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclotetrasiloxane**

Oral	DNEL/general population/Systemic effects/Long-term	5 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	97.3 mg/m3 (worker)
	DNEL / Workers / Local Effects / Long-term	24.2 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	17.3 mg/m3 (consumer)

**556-67-2 octamethylcyclotetrasiloxane**

Oral	DNEL/general population/Systemic effects/Long-term	3.7 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	73 mg/m3 (worker)
	DNEL / Workers / Local Effects / Long-term	73 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	13 mg/m3 (consumer)
	DNEL/general population/Local effects/Long-term	13 mg/m3 (consumer)

**2634-33-5 1,2-benzisothiazol-3(2H)-one**

Dermal	DNEL / Workers / Systemic effects / Long-term	0.966 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	0.345 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	6.81 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	1.2 mg/m3 (consumer)

**· PNECs****111-76-2 2-butoxyethanol**

Oral	PNEC / Predators / Secondary poisoning	20 mg/kg food (secondary poisoning (predators))
	PNEC / Aquatic organisms / Freshwater	8.8 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	0.88 mg/l (aquatic organisms)
	PNEC / Aquatic org / intermittent releases(freshwater)	9.1 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	463 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	34.6 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	2.33 mg/kg (terrestrial organisms)

(Contd. on page 6)



# Safety data sheet according to UK REACH



Printing date 24.07.2025

Version number 6.0 (replaces version 5.1)

Revision: 24.07.2025

**Trade name: WASH & PEARL**

(Contd. of page 5)

**112-34-5 2-(2-butoxyethoxy)ethanol**

Oral	PNEC / Predators / Secondary poisoning	56 mg/kg food (secondary poisoning (predators))
	PNEC / Aquatic organisms / Freshwater	1.1 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	0.11 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	200 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	4.4 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	0.44 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	0.32 mg/kg (terrestrial organisms)

**541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane**

Oral	PNEC / Predators / Secondary poisoning	16 mg/kg food (secondary poisoning (predators))
	PNEC / Aquatic organisms / Freshwater	0.0012 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	0.00012 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	10 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	11 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	1.1 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	2.54 mg/kg (terrestrial organisms)

**556-67-2 octamethylcyclotetrasiloxane**

	PNEC / Aquatic organisms / Freshwater	0.0015 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	0.00015 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	10 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	3 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	0.3 mg/kg (aquatic organisms)

**2634-33-5 1,2-benzisothiazol-3(2H)-one**

	PNEC / Aquatic organisms / Freshwater	0.00403 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	0.000403 mg/l (aquatic organisms)
	PNEC/Aquatic org/intermittent releases(freshwater)	0.0011 mg/l (aquatic organisms)
	PNEC / Aquatic org / intermittent releases(marine water)	0.00011 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	1.03 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	0.0000499 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	0.00000499 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	3 mg/kg (terrestrial organisms)

(Contd. on page 7)

# Safety data sheet according to UK REACH



Printing date 24.07.2025

Version number 6.0 (replaces version 5.1)

Revision: 24.07.2025

**Trade name: WASH & PEARL**

(Contd. of page 6)

## · **Ingredients with biological limit values:**

### **111-76-2 2-butoxyethanol**

BMGV 240 mmol/mol creatinine  
Medium: urine  
Sampling time: post shift  
Parameter: butoxyacetic acid

· **Additional information:** The lists valid during the making were used as basis.

## · **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **Hand protection**

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

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/face protection** Goggles recommended during refilling

· **Body protection:** Protective work clothing

## **SECTION 9: Physical and chemical properties**

### · **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Liquid

· **Colour:**

sea-green

· **Odour:**

Sweetish

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

Undetermined.

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

Not applicable.

· **Decomposition temperature:**

Not determined.

· **pH at 20 °C**

2.6 (DIN 51369)

5.6 (1%) (DIN 51369)

(Contd. on page 8)

GB

# Safety data sheet according to UK REACH



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Version number 6.0 (replaces version 5.1)

Revision: 24.07.2025

Trade name: WASH &amp; PEARL

(Contd. of page 7)

· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Consistency</b>	
· <b>Dynamic:</b>	< 3 mPa*s @ 20 °C
· <b>Solubility</b>	
· <b>water:</b>	Fully miscible.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Heat Capacity</b>	
· <b>Vapour pressure:</b>	Not determined.
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	1.022 g/cm <sup>3</sup> (ASTM D 4052)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Solvent separation test:</b>	
· <b>VOC (EC)</b>	2.48 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with alkali (lyes).
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.

(Contd. on page 9)

GB



# Safety data sheet according to UK REACH



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Revision: 24.07.2025

Trade name: WASH &amp; PEARL

(Contd. of page 8)

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

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

· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

### 111-76-2 2-butoxyethanol

Oral	LD50	1,414 mg/kg (guinea pig)
Dermal	LD50	2,000 mg/kg (rab)
	NOAEL	150 mg/kg/24h (rabbit)
Inhalative	LC50 / 4h	450-900 ppm (rat)
	LC50 / 8h	800 ppm (rat)
	NOAEC	31-62.5 ppm (mouse)
		31-62.5 ppm (rat)

### 112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LD50	2,410-5,530 mg/kg (mouse)
	NOAEL	250 mg/kg/24h (rat)
Dermal	LD50	2,764 mg/kg (rabbit)
	NOAEL	200-2,000 mg/kg/24h (rat)
Inhalative	NOAEL	14 ppm (rat)

### 541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclotetrasiloxane

Oral	LD50	>5,000 mg/kg (rat)
	NOAEL	1,000 mg/kg/24h (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
	NOAEL	1,600 mg/kg/24h (rat)
Inhalative	LC50 / 4h	8.67 mg/l (rat)
	NOAEC	40-160 ppm (rat)

### 556-67-2 octamethylcyclotetrasiloxane

Oral	LD50	4,800 mg/kg (rat)
Dermal	LD50	2.5 ml/kg (rat)
Inhalative	LC50 / 4h	36 mg/l (rat)
	NOAEC	150 ppm (rat)

### 122-40-7 Amyl cinnamal

Oral	LD50	3,730 mg/kg (rat)
	NOAEL	23-36 mg/kg/24h (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

### 2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral	LD50	490-670 mg/kg (rat)
	NOAEL	69-150 mg/kg/24h (rat)
Dermal	LD50	>2,000 mg/kg (rat)

· **Primary irritant effect:**

· **Serious eye damage/irritation** Causes serious eye irritation.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclotetrasiloxane	List II
556-67-2	octamethylcyclotetrasiloxane	List II

(Contd. on page 10)

# Safety data sheet according to UK REACH



Printing date 24.07.2025

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**Trade name: WASH & PEARL**

(Contd. of page 9)

540-97-6	Dodecamethylcyclhexasiloxane	List II
1222-05-5	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	List II
80-54-6	2-(4-tert-Butylbenzyl)propionaldehyde	List II

## SECTION 12: Ecological information

### · 12.1 Toxicity

#### · Aquatic toxicity:

#### **519142-86-0 Silicone Quaternium-17**

LC50	>10-100 mg/l/96h (zebrafish)
EC50	>5 mg/l/72h ( <i>Desmodesmus subspicatus</i> )
EC50	>10-100 mg/l/48h ( <i>Daphnia Magna</i> ) (OECD 202)
EC50	>1,000 mg/l (activated sludge)

#### **111-76-2 2-butoxyethanol**

LC50	1,474 mg/l/96h (fish)
EC10	134 mg/l/21d (aquatic invertebrates)
EC10	308-679 mg/l/72h (algae / cyanobacteria)
EC50	911-1,840 mg/l/72h (algae / cyanobacteria)
EC50	297 mg/l/21d (aquatic invertebrates)
EC50	1,550-1,800 mg/l/48h (aquatic invertebrates)
NOEC	100 mg/l/21d (aquatic invertebrates)
	100 mg/l/21d (fish)
NOEC	88-286 mg/l/72h (algae / cyanobacteria)

#### **112-34-5 2-(2-butoxyethoxy)ethanol**

LC50	1,300 mg/l/96h (fish)
EC50	100 mg/l/96h (algae / cyanobacteria)
EC50	1,101 mg/l/72h (algae / cyanobacteria)
EC50	100 mg/l/48h (aquatic invertebrates)
NOEC	100 mg/l/96h (algae / cyanobacteria)
NOEC	100 mg/l/48h (aquatic invertebrates)

#### **541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane**

LC50	0.016 mg/l/96h (fish)
LC50	0.016 mg/l/14d (fish)
LC50	257 mg/kg/28d (sediment)
	813 mg/kg/28d (terrestrial arthropods)
	41-4,074 mg/kg/28d (terrestrial macroorganisms except arthropods)
EC10	100 mg/kg/28d (soil microorganisms)
EC10	0.012 mg/l/96h (aquatic algae and cyanobacteria)
EC50	41-76 g/kg/48d (terrestrial macroorganisms except arthropods)
EC50	41-76 g/kg/28d (terrestrial macroorganisms except arthropods)
EC50	2 mg/l/3h (microorganisms)
EC50	0.012 mg/l/96h (aquatic algae and cyanobacteria)
EC50	0.015 mg/l/21d (aquatic invertebrates)
EC50	0.0029 mg/l/48h (aquatic invertebrates)
NOEC	0.07-0.16 g/kg/28d (sediment)
	377 g/kg/28d (terrestrial arthropods)

(Contd. on page 11)

# Safety data sheet according to UK REACH



Printing date 24.07.2025

Version number 6.0 (replaces version 5.1)

Revision: 24.07.2025

**Trade name: WASH & PEARL**

(Contd. of page 10)

	41-76 g/kg/28d (terrestrial macroorganisms except arthropods)
NOEC	0.015 mg/l/21d (aquatic invertebrates)
NOEC	0.012 mg/l/96h (aquatic algae and cyanobacteria)
	0.016 mg/l/96h (fish)
NOEC	0.0029 mg/l/48h (aquatic invertebrates)
NOEC	0.016 mg/l/14d (fish)
LOEC	160-248 mg/kg/28d (sediment)
LOEC	0.015 mg/l/21d (aquatic invertebrates)
LOEC	0.014 mg/l/90d (fish)
NOEC	41-76 mg/kg/56d (terrestrial macroorganisms except arthropods)
NOEC	0.014 mg/l/90d (fish)
<b>556-67-2 octamethylcyclotetrasiloxane</b>	
LC50	0.01 mg/l/14d (fish)
EC10	0.1 mg/kg/28d (terrestrial organisms)
EC10	0.022 mg/l/96h (algae / cyanobacteria)
EC50	32 g/kg/28d (sediment)
	0.1 g/kg/28d (terrestrial organisms)
EC50	0.022 mg/l/96h (algae / cyanobacteria)
EC50	0.015 mg/l/21d (aquatic invertebrates)
EC50	0.015 mg/l/48h (aquatic invertebrates)
NOEC	13 g/kg/28d (sediment)
NOEC	0.015 mg/l/21d (aquatic invertebrates)
NOEC	0.022 mg/l/96h (algae / cyanobacteria)
	0.022 mg/l/96h (fish)
NOEC	0.015 mg/l/48h (aquatic invertebrates)
NOEC	0.0044 mg/l/14d (fish)
LOEC	19 mg/kg/28d (sediment)
<b>122-40-7 Amyl cinnamal</b>	
LC50	0.91 mg/l/96h (fish)
EC50	1.5-2.3 mg/l/72h (aquatic algae and cyanobacteria)
EC50	0.054 mg/l/21d (aquatic invertebrates)
EC50	0.28 mg/l/48h (aquatic invertebrates)
NOEC	0.041 mg/l/21d (aquatic invertebrates)
NOEC	0.21-0.66 mg/l/72h (aquatic algae and cyanobacteria)
<b>2634-33-5 1,2-benzisothiazol-3(2H)-one</b>	
LC50	2.15-22 mg/l/96h (fish)
LC50	0.41 g/kg/14d (terrestr. macroorganisms (- arthropods))
EC50	0.2-0.812 g/kg/14d (terrestrial plants)
EC10	10.3 mg/l (microorganisms)
EC10	30 mg/kg (terrestrial plants)
	263.7 mg/kg (soil microorganisms)
	234.5 mg/kg (terrestr. macroorganisms (- arthropods))
EC50	0.8115 g/kg/28d (soil microorganisms)
EC50	12.8-24 mg/l/3h (microorganisms)
EC50	0.07-0.15 mg/l/72h (algae / cyanobacteria)
EC50	2.9-2.94 mg/l/48h (aquatic invertebrates)

(Contd. on page 12)

# Safety data sheet according to UK REACH



Printing date 24.07.2025

Version number 6.0 (replaces version 5.1)

Revision: 24.07.2025

**Trade name: WASH & PEARL**

(Contd. of page 11)

NOEC	0.03-0.812 g/kg/14d (terrestrial plants)
	0.234-0.411 g/kg/14d (terrestr. macroorganisms (- arthropods))
NOEC	0.2637 g/kg/28d (soil microorganisms)
NOEC	0.04-0.055 mg/l/72h (algae / cyanobacteria)
NOEC	10.3-11 mg/l/3h (microorganisms)

· **12.2 Persistence and degradability** Biodegradability (OECD 302 B): >90 %

· **12.3 Bioaccumulative potential**

## 111-76-2 2-butoxyethanol

Partition coefficient 0.81 [---] (log Kow) (Bioaccumulation)

Biodegradability 90.4 % (28d) (Biodegradability) (OECD 301 B)

## 112-34-5 2-(2-butoxyethoxy)ethanol

Partition coefficient 1 [---] (log Kow) (Bioaccumulation)

Biodegradability 95 % (28d) (Biodegradability) (OECD 301 C)

## 541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclotetrasiloxane

Partition coefficient 8.07 [---] (log Kow) (Bioaccumulation)

## 556-67-2 octamethylcyclotetrasiloxane

Partition coefficient 6.98 [---] (log Kow) (Bioaccumulation)

## 122-40-7 Amyl cinnamal

Partition coefficient 2.498 [---] (log Kow) (Bioaccumulation)

## 2634-33-5 1,2-benzisothiazol-3(2H)-one

Partition coefficient 0.7 [---] (log Kow) (Bioaccumulation)

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:**

541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclotetrasiloxane

· **vPvB:**

541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclotetrasiloxane

· **12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

· **12.7 Other adverse effects**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (according to Appendix 1 AWSV): significantly hazardous to water

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

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

## SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Empty uncleaned packaging can be disposed of with household waste.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

(Contd. on page 13)

## Safety data sheet according to UK REACH



Printing date 24.07.2025

Version number 6.0 (replaces version 5.1)

Revision: 24.07.2025

**Trade name: WASH & PEARL**

(Contd. of page 12)

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR/RID/ADN, ADN, IMDG, IATA</b></li> </ul>                             | Not classified as hazardous for transport |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR/RID/ADN, ADN, IMDG, IATA</b></li> </ul>                            | Not classified as hazardous for transport |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR/RID/ADN, ADN, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul> | Not classified as hazardous for transport |
| <ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR/RID/ADN, IMDG, IATA</b></li> </ul>   | Not classified as hazardous for transport |
| <ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>  | No  |
| <ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> </ul>  | Not applicable.                           |
| <ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>   | Not applicable.                           |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>   | Not classified as hazardous for transport |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Poisons Act**
- |   |                  |                                 |
|---|------------------|---------------------------------|
| <ul style="list-style-type: none"> <li>· <b>Regulated explosives precursors</b></li> </ul>  |                  |                                 |
| None of the ingredients is listed.  |                  |                                 |
| <ul style="list-style-type: none"> <li>· <b>Regulated poisons</b></li> </ul>                |                  |                                 |
| None of the ingredients is listed.  |                  |                                 |
| <ul style="list-style-type: none"> <li>· <b>Reportable explosives precursors</b></li> </ul> |                  |                                 |
| None of the ingredients is listed.  |                  |                                 |
| <ul style="list-style-type: none"> <li>· <b>Reportable poisons</b></li> </ul>               |                  |                                 |
| 1310-73-2   | sodium hydroxide | 12% of total caustic alkalinity |
- **Directive 2012/18/EU**
  - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
  - **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (UK ANNEX XIV)**
- |   |  |  |
|---|--|--|
| <ul style="list-style-type: none"> <li>· <b>Substances of very high concern (SVHC) according to UK REACH</b></li> </ul> |  |  |
| 541-02-6  | 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane |  |
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

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(Contd. on page 14)



# Safety data sheet according to UK REACH



Printing date 24.07.2025

Version number 6.0 (replaces version 5.1)

Revision: 24.07.2025

Trade name: WASH &amp; PEARL

(Contd. of page 13)

## SECTION 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. The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.*

*No special training instructions to ensure protection of human health and environment are required.*

- **purity requirement**

- **Relevant phrases**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H361f Suspected of damaging fertility.

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.

- **Department issuing SDS:** Abteilung Produktsicherheit

- **Abbreviations and acronyms:**

ATE: Acute toxicity estimate values

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 2: Reproductive toxicity – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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

## Annex: Exposure scenario 1

- **Short title of the exposure scenario** Industrial use of cleaning agents

- **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- **Product category** PC35 Washing and cleaning products (including solvent based products)

- **Process category**

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

PROC15 Use as laboratory reagent

(Contd. on page 15)

## Safety data sheet according to UK REACH



Printing date 24.07.2025

Version number 6.0 (replaces version 5.1)

Revision: 24.07.2025

**Trade name: WASH & PEARL**

(Contd. of page 14)

- **Environmental release category**  
ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product**  
Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

### Annex: Exposure scenario 2

- **Short title of the exposure scenario** Professional use of cleaning agents
- **Sector of Use**  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC35 Washing and cleaning products (including solvent based products)
- **Process category**  
PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.  
PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions  
PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities  
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities  
PROC10 Roller application or brushing  
PROC11 Non industrial spraying  
PROC13 Treatment of articles by dipping and pouring  
PROC15 Use as laboratory reagent
- **Environmental release category**  
ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.

(Contd. on page 16)

## Safety data sheet according to UK REACH



Printing date 24.07.2025

Version number 6.0 (replaces version 5.1)

Revision: 24.07.2025

**Trade name: WASH & PEARL**

(Contd. of page 15)

- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

### Annex: Exposure scenario 3

- **Short title of the exposure scenario** Private use of cleaning agents
- **Sector of Use** SU21 Consumer uses: Private households / general public / consumers
- **Product category** PC35 Washing and cleaning products (including solvent based products)
- **Process category**
  - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
  - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
  - PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
  - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
  - PROC10 Roller application or brushing
  - PROC11 Non industrial spraying
  - PROC13 Treatment of articles by dipping and pouring
- **Environmental release category**
  - ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.

(Contd. on page 17)

**Safety data sheet**  
**according to UK REACH**

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Revision: 24.07.2025

**Trade name: WASH & PEARL**

(Contd. of page 16)

- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

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