

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

1.1 Product identifier

Trade name: **CS-CLEANER**

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

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

Application of the substance / the mixture

Only for proper handling.

Cleaning material/ Detergent

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

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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



GHS05 GHS07

Signal word Danger

Hazard-determining components of labelling:

PHENYLPOLYGLYKOLPHOSPHORSÄUREESTER (Polymer)

1,2-benzisothiazol-3(2H)-one

Alkylpolyglycoside C10-16

D-Glucopyranose, oligomers, decyl octyl glycosides

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

(Contd. on page 2)

GB

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 27.03.2023

Version number 5.1 (replaces version 5.0)

Revision: 27.03.2023

Trade name: CS-CLEANER

(Contd. of page 1)

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.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

· **Additional information:**

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

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 26183-52-8 NLP: 500-046-6	Decan-1-ol, ethoxylated Eye Irrit. 2, H319	2.5-7.5%
CAS: 7320-34-5 EINECS: 230-785-7 Reg.nr.: 01-2119489369-18	tetrapotassium pyrophosphate Eye Irrit. 2, H319	≥2.5-≤7.5%
CAS: 39464-70-5 EC number: 932-105-0	PHENYLPOLYGLYKOLPHOSPHORSAUREESTER (Polymer) Skin Corr. 1B, H314; Eye Dam. 1, H318	≥1-<3%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	1-3%
CAS: 110615-47-9 EC number: 600-975-8 Reg.nr.: 01-2119489418-23	Alkylpolyglycoside C10-16 Eye Dam. 1, H318; Skin Irrit. 2, H315	1-2.5%
CAS: 68515-73-1 NLP: 500-220-1 Reg.nr.: 01-2119488530-36	D-Glucopyranose, oligomers, decyl octyl glycosides Eye Dam. 1, H318	1-2.5%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6	1,2-benzisothiazol-3(2H)-one Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥0.05 %	≥0.1-<0.25%

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

non-ionic surfactants	≥5 - <15%
phosphates, anionic surfactants, preservation agents (BENZISOTHIAZOLINONE, METHYLISOTHIAZOLINONE)	<5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

GB

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 27.03.2023

Version number 5.1 (replaces version 5.0)

Revision: 27.03.2023

Trade name: CS-CLEANER

(Contd. of page 2)

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then 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:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
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).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
Do not spray onto a naked flame or any incandescent material.
- **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:** Not required.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 27.03.2023

Version number 5.1 (replaces version 5.0)

Revision: 27.03.2023

Trade name: CS-CLEANER

(Contd. of page 3)

- **Further information about storage conditions:**
The recommended storage temperature is (deg.C): 5-50°C
Keep container tightly sealed.
- **Storage class:** 10
- **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:

67-63-0 propan-2-ol

WEL	Short-term value: 1250 mg/m ³ , 500 ppm
	Long-term value: 999 mg/m ³ , 400 ppm

· DNELs

26183-52-8 Decan-1-ol, ethoxylated

Oral	DNEL/general population/Systemic effects/Long-term	25 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	2,080 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	1,250 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	294 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	87 mg/m ³ (consumer)

67-63-0 propan-2-ol

Oral	DNEL/general population/Systemic effects/Long-term	26 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	888 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	319 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	500 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	89 mg/m ³ (consumer)

110615-47-9 Alkylpolyglycoside C10-16

Oral	DNEL/general population/Systemic effects/Long-term	35.7 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	595,000 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	357,000 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	420 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	124 mg/m ³ (consumer)

68515-73-1 D-Glucopyranose, oligomers, decyl octyl glycosides

Oral	DNEL/general population/Systemic effects/Long-term	35.7 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	595,000 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	357,000 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	420 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	124 mg/m ³ (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/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	1.2 mg/m ³ (consumer)

· PNECs

26183-52-8 Decan-1-ol, ethoxylated

	PNEC / Aquatic organisms / Freshwater	0.292 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	0.0292 mg/l (aquatic organisms)

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 27.03.2023

Version number 5.1 (replaces version 5.0)

Revision: 27.03.2023

Trade name: CS-CLEANER

(Contd. of page 4)

	<i>PNEC / Aquatic org / intermittent releases(freshwater)</i>	0.0039 mg/l (aquatic organisms)
	<i>PNEC/Aquatic organisms/Sewage treatment plant/STP</i>	1.4 mg/l (aquatic organisms)
	<i>PNEC / Aquatic organisms / Sediment (freshwater)</i>	31.9 mg/kg (aquatic organisms)
	<i>PNEC / Aquatic organisms / Sediment (marine water)</i>	3.19 mg/kg (aquatic organisms)

67-63-0 propan-2-ol

Oral	<i>PNEC / Predators / Secondary poisoning</i>	160 mg/kg food (secondary poisoning (predators))
	<i>PNEC / Aquatic organisms / Freshwater</i>	140.9 mg/l (aquatic organisms)
	<i>PNEC / Aquatic organisms / Marine water</i>	140.9 mg/l (aquatic organisms)
	<i>PNEC / Aquatic org / intermittent releases(freshwater)</i>	140.9 mg/l (aquatic organisms)
	<i>PNEC/Aquatic organisms/Sewage treatment plant/STP</i>	2,251 mg/l (aquatic organisms)
	<i>PNEC / Aquatic organisms / Sediment (freshwater)</i>	552 mg/kg (aquatic organisms)
	<i>PNEC / Aquatic organisms / Sediment (marine water)</i>	552 mg/kg (aquatic organisms)
	<i>PNEC / Terrestrial organism / Soil</i>	28 mg/kg (terrestrial organisms)

110615-47-9 Alkylpolyglycoside C10-16

Oral	<i>PNEC / Predators / Secondary poisoning</i>	111.11 mg/kg food (secondary poisoning (predators))
	<i>PNEC / Aquatic organisms / Freshwater</i>	0.176 mg/l (aquatic organisms)
	<i>PNEC / Aquatic organisms / Marine water</i>	0.018 mg/l (aquatic organisms)
	<i>PNEC/Aquatic organisms/Sewage treatment plant/STP</i>	5,000 mg/l (aquatic organisms)
	<i>PNEC / Aquatic organisms / Sediment (freshwater)</i>	1.516 mg/kg (aquatic organisms)
	<i>PNEC / Aquatic organisms / Sediment (marine water)</i>	0.065 mg/kg (aquatic organisms)
	<i>PNEC / Terrestrial organism / Soil</i>	0.654 mg/kg (terrestrial organisms)

68515-73-1 D-Glucopyranose, oligomers, decyl octyl glycosides

Oral	<i>PNEC / Predators / Secondary poisoning</i>	111.11 mg/kg food (secondary poisoning (predators))
	<i>PNEC / Aquatic organisms / Freshwater</i>	0.176 mg/l (aquatic organisms)
	<i>PNEC / Aquatic organisms / Marine water</i>	0.0176 mg/l (aquatic organisms)
	<i>PNEC/Aquatic organisms/Sewage treatment plant/STP</i>	560 mg/l (aquatic organisms)
	<i>PNEC / Aquatic organisms / Sediment (freshwater)</i>	1.516 mg/kg (aquatic organisms)
	<i>PNEC / Aquatic organisms / Sediment (marine water)</i>	0.152 mg/kg (aquatic organisms)
	<i>PNEC / Terrestrial organism / Soil</i>	0.654 mg/kg (terrestrial organisms)

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

	<i>PNEC / Aquatic organisms / Freshwater</i>	0.004 mg/l (aquatic organisms)
	<i>PNEC / Aquatic organisms / Marine water</i>	0.000403 mg/l (aquatic organisms)

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 27.03.2023

Version number 5.1 (replaces version 5.0)

Revision: 27.03.2023

Trade name: CS-CLEANER

(Contd. of page 5)

PNEC / Aquatic org / intermittent releases(freshwater)	0.0011 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)

· **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 skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Not necessary if room is well-ventilated.

Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

· **Hand protection**



Protective gloves

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**



safety goggles

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Physical state**

Fluid

(Contd. on page 7)

GB

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 27.03.2023

Version number 5.1 (replaces version 5.0)

Revision: 27.03.2023

Trade name: CS-CLEANER

(Contd. of page 6)

· Colour:	Light yellow
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	100 °C (DIN EN ISO 3405)
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	65 °C
· Decomposition temperature:	Not determined.
· pH at 20 °C	7.9 (DIN 51369)
· Viscosity:	
· Kinematic viscosity	Not determined.
· Consistency	
· Dynamic:	Not determined.
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Heat Capacity	
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	1.066 g/cm ³ (ASTM D 4052)
· Relative density	Not determined.
· Vapour density	Not determined.

9.2 Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Explosive properties:	Product does not present an explosion hazard.
· Solvent separation test:	
· VOC (EC)	2.99 %
· Change in condition	
· Evaporation rate	Not determined.

Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 27.03.2023

Version number 5.1 (replaces version 5.0)

Revision: 27.03.2023

Trade name: CS-CLEANER

(Contd. of page 7)

· **Desensitised explosives**

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** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **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:**

26183-52-8 Decan-1-ol, ethoxylated

Oral	LD50	5,050 mg/kg (rat)
	NOAEL	500 mg/kg/24h (rat)
Dermal	LD50	2,000-3,000 ml/kg (rabbit)
	LD50	2,000 mg/kg (rat)
Inhalative	LC50 / 6h	100 mg/m ³ (rat)
	LC50 / 4h	1.6 mg/l (rat)

7320-34-5 tetrapotassium pyrophosphate

Oral	LD50	>2,000 mg/kg (mouse)
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67-63-0 propan-2-ol

Oral	LD50	5,840 mg/kg (rat)
Dermal	LD50	16.4 ml/kg (rabbit)
	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50 / 6h	10,000 ppm (rat)
	NOAEC	5,000 ppm (rat)
	NOEC	500-5,000 ppm (rat)

110615-47-9 Alkylpolyglycoside C10-16

Oral	LD50	5,000 mg/kg (rat)
	NOAEL	1,000 mg/kg/24h (rat)
	LOEL	500 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rabbit)

68515-73-1 D-Glucopyranose, oligomers, decyl octyl glycosides

Oral	LD50	2,000 mg/kg (rat)
	NOAEL	100 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)

- **Skin corrosion/irritation** Causes skin irritation.

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 27.03.2023

Version number 5.1 (replaces version 5.0)

Revision: 27.03.2023

Trade name: CS-CLEANER

(Contd. of page 8)

- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

95-14-7 benzotriazole

List II

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

26183-52-8 Decan-1-ol, ethoxylated

LC50	1.2 mg/l/96h (fish)
LC50	1 g/kg/14d (terrestr. macroorganisms (- arthropods))
EC50	140 mg/l/3h (microorganisms)
EC50	0.61-0.7 mg/l/24h (aquatic invertebrates)
EC10	0.62-1.1 mg/l/72h (algae / cyanobacteria)
EC50	0.18-1.8 mg/l/72h (algae / cyanobacteria)
EC50	0.39-2.5 mg/l/48h (aquatic invertebrates)
NOEC	100 g/kg/21d (terrestrial plants)
NOEC	0.77-1.75 mg/l/21d (aquatic invertebrates)
NOEC	0.4 mg/l/72h (algae / cyanobacteria)
NOEC	0.66 mg/l/96h (fish)

67-63-0 propan-2-ol

LC50	9.64-10 mg/l/96h (fish)
LC50	10,000 mg/l/24h (aquatic invertebrates)
EC50	10,000 mg/l/24h (aquatic invertebrates)

110615-47-9 Alkylpolyglycoside C10-16

LC50	2.95-5.9 mg/l/96h (fish)
LC0	2-4 mg/l/96h (fish)
LC100	8-16 mg/l/96h (fish)
LC50	3.2 mg/l/28d (fish)
EC10	1.45-4.15 mg/l/72h (algae / cyanobacteria)
EC50	5-25 mg/l/72h (algae / cyanobacteria)
EC50	1.76 mg/l/21d (aquatic invertebrates)
EC50	7-14 mg/l/48h (aquatic invertebrates)
NOEC	1-4 mg/l/21d (aquatic invertebrates)
NOEC	1-3.2 mg/l/28d (fish)
LOEC	2-4 mg/kg/28d (aquatic invertebrates)

68515-73-1 D-Glucopyranose, oligomers, decyl octyl glycosides

LC50	100.8-170 mg/l/96h (fish)
LC0	59.3-100 mg/l/96h (fish)
LC50	3.2 mg/l/28d (fish)
EC10	6.25 mg/l/72h (algae / cyanobacteria)
EC50	27.2-37 mg/l/72h (algae / cyanobacteria)
EC50	100 mg/l/48h (aquatic invertebrates)
NOEC	1-4 mg/l/21d (aquatic invertebrates)
NOEC	100 mg/l/48h (aquatic invertebrates)

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 27.03.2023

Version number 5.1 (replaces version 5.0)

Revision: 27.03.2023

Trade name: CS-CLEANER

(Contd. of page 9)

NOEC	1-3.2 mg/l/28d (fish)
LOEC	2-4 mg/kg/28d (aquatic invertebrates)
2634-33-5 1,2-benzisothiazol-3(2H)-one	
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)
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** No further relevant information available.

· **12.3 Bioaccumulative potential**

26183-52-8 Decan-1-ol, ethoxylated	
Partition coefficient	3.24-5 [---] (log Kow) (Bioaccumulation)
67-63-0 propan-2-ol	
Partition coefficient	0.05 [---] (log Kow) (Bioaccumulation)
Biodegradability	>70 % (28d) (Biodegradability) (EU Method C.5)
110615-47-9 Alkylpolyglycoside C10-16	
Partition coefficient	≤0.07 [---] (log Kow) (Bioaccumulation)
Biodegradability	88 % (28d) (Biodegradability) (OECD 301 D)
68515-73-1 D-Glucopyranose, oligomers, decyl octyl glycosides	
Partition coefficient	≤0.07-1.72 [---] (log Kow) (Bioaccumulation)
Biodegradability	100 % (28d) (Biodegradability) (OECD 301 E)
2634-33-5 1,2-benzisothiazol-3(2H)-one	
Partition coefficient	0.7 [---] (log Kow) (Bioaccumulation)
Bioconcentration factor (BCF)	6.62 BCF (fish)

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

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

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

(Contd. on page 11)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 27.03.2023

Version number 5.1 (replaces version 5.0)

Revision: 27.03.2023

Trade name: CS-CLEANER

Must not reach sewage water or drainage ditch undiluted or unneutralised.

(Contd. of page 10)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

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.

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

14.1 UN number or ID number

ADR/RID/ADN, IMDG, IATA Void

14.2 UN proper shipping name

ADR/RID/ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

ADR/RID/ADN, ADN, IMDG, IATA

Class Void

14.4 Packing group

ADR/RID/ADN, IMDG, IATA Void

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

UN "Model Regulation":

Void

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

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.

(Contd. on page 12)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 27.03.2023

Version number 5.1 (replaces version 5.0)

Revision: 27.03.2023

Trade name: CS-CLEANER

(Contd. of page 11)

- **purity requirement**
- **Relevant phrases**
 - H225 Highly flammable liquid and vapour.
 - H302 Harmful if swallowed.
 - H314 Causes severe skin burns and eye damage.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H336 May cause drowsiness or dizziness.
 - H400 Very toxic to aquatic life.
 - H411 Toxic to aquatic life with long lasting effects.
- **Department issuing SDS:** Abteilung Produktsicherheit
- **Abbreviations and acronyms:**
 - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 - 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)
 - VOC: Volatile Organic Compounds (USA, EU)
 - DNEL: Derived No-Effect Level (UK REACH)
 - PNEC: Predicted No-Effect Concentration (UK REACH)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - Flam. Liq. 2: Flammable liquids – Category 2
 - Acute Tox. 4: Acute toxicity – Category 4
 - Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 - 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
 - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 - Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- *** 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
- **Environmental release category**
 - ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

(Contd. on page 13)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 27.03.2023

Version number 5.1 (replaces version 5.0)

Revision: 27.03.2023

Trade name: CS-CLEANER

(Contd. of page 12)

- **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.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.

(Contd. on page 14)

Safety data sheet
according to 1907/2006/EC, Article 31



Printing date 27.03.2023

Version number 5.1 (replaces version 5.0)

Revision: 27.03.2023

Trade name: CS-CLEANER

(Contd. of page 13)

- **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.

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