

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

Printing date 19.12.2023

Version number 5 (replaces version 4)

Revision: 19.12.2023

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** **REDOCOL Lino Clean****UFI:** 1G10-S0GU-W00K-2UN5**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 material/ Detergent**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Ostermann UK Ltd.  
Stonebridge Cross Business Park  
Unit 104 Pointon Way  
Droitwich  
WR9 0LW  
United Kingdom  
Phone (UK): +44 (0) 1905 793 550  
Phone (Ireland): +44 (0) 1905 793 552  
Fax: +44 (0) 1905 793 559

**Informing department:**

Customer Service  
Phone: +49 (0) 2871 / 2550-0

**1.4 Emergency telephone number:**

Gift-Informationszentrum Nord, Göttingen  
Poison Information Center, Göttingen  
Tel.: +49 (0)551 19240  
(German and English only)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS08 health hazard

Repr. 1B H360FD May damage fertility. May damage the unborn child.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

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

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 19.12.2023

Version number 5 (replaces version 4)

Revision: 19.12.2023

**Trade name: REDOCOL Lino Clean**

(Contd. from page 1)

- **Hazard pictograms**



GHS05 GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**

Alcohols, C12-14, ethoxylated  
boric acid  
2-phenoxyethanol  
Benzenesulfonic acid, 4-C10-13-sec-alkylderivs.

- **Hazard statements**

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H360FD May damage fertility. May damage the unborn child.

- **Precautionary statements**

P264 Wash thoroughly after handling.  
P280 Wear protective gloves / eye protection.  
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.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

Restricted to professional users.

- **Labelling of packages where the contents do not exceed 125 ml**

- **Hazard pictograms**



GHS05 GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**

Alcohols, C12-14, ethoxylated  
boric acid  
2-phenoxyethanol  
Benzenesulfonic acid, 4-C10-13-sec-alkylderivs.

- **Hazard statements**

H318 Causes serious eye damage.  
H360FD May damage fertility. May damage the unborn child.

- **Precautionary statements**

P280 Wear protective gloves / eye 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.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Components according to regulation EC 648/2004 on detergents**

phosphates, non-ionic surfactants

≥5 - &lt;15%

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 19.12.2023

Version number 5 (replaces version 4)

Revision: 19.12.2023

**Trade name: REDOCOL Lino Clean**

(Contd. from page 2)

anionic surfactants, soap	<5%
preservation agents (PHENOXYETHANOL)	

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

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine disrupting properties.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

- **Description:** Aqueous cleaning agent. Preparation based on tensides and auxiliary substances.

**Dangerous components:**

CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44-X	2-(2-butoxyethoxy)ethanol --- ☠ Eye Irrit. 2, H319	≥ 2.5 - < 10%
CAS: 7320-34-5 EINECS: 230-785-7 Reg.nr.: 01-2119489369-18-X	tetrapotassium pyrophosphate --- ☠ Eye Irrit. 2, H319	≥ 2.5 - < 10%
CAS: 68439-50-9 NLP: 500-213-3 Reg.nr.: 01-2119487984-16-X	Alcohols, C12-14, ethoxylated --- ☠ Eye Dam. 1, H318; Aquatic Chronic 3, H412	≥ 3 - < 10%
CAS: 122-99-6 EINECS: 204-589-7 Index number: 603-098-00-9 Reg.nr.: 01-2119488943-21-X	2-phenoxyethanol --- ☠ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302; STOT SE 3, H335 ATE: LD50 oral: 1,394 mg/kg	≥ 3 - ≤ 10%
CAS: 85536-14-7 EINECS: 287-494-3 Reg.nr.: 01-2119490234-40-X	Benzenesulfonic acid, 4-C10-13-sec-alkylderivs. --- ☠ Skin Corr. 1C, H314; ☠ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302; Aquatic Chronic 3, H412	≥ 3 - < 5%
CAS: 90990-15-1 EINECS: 292-776-4	fatty acids, C12-18 and C18-unsatd. --- ☠ Eye Irrit. 2, H319	≥ 0 - < 10%
CAS: 10043-35-3 EINECS: 233-139-2 Index number: 005-007-00-2 Reg.nr.: 01-2119486683-25-X	boric acid --- ☠ Repr. 1B, H360FD	≥ 0.3 - ≤ 1%

**SVHC**

10043-35-3 | boric acid

- **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**

- **General information** Remove contaminated clothing immediately.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**  
Instantly wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.  
Remove contact lenses if possible.

(Contd. on page 4)

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

Printing date 19.12.2023

Version number 5 (replaces version 4)

Revision: 19.12.2023

**Trade name: REDOCOL Lino Clean**

(Contd. from page 3)

- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
In case of persistent symptoms 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**  
The product itself does not burn.  
Use fire fighting measures that suit the environment.
  - **For safety reasons unsuitable extinguishing agents** None known.
- **5.2 Special hazards arising from the substance or mixture**  
Can form explosive gas-air mixtures.  
During incomplete combustion carbon monoxide can be formed.
- **5.3 Advice for firefighters**
  - **Protective equipment:** Wear self-contained breathing apparatus.
  - **Additional information**  
Remove goods in stock from incendiary zone, if possible.  
Use water to keep fire exposed containers cool.  
Use large quantities of foam as it is partially destroyed by the product.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Keep away from sources of ignition and care for sufficient ventilation due to the content of organic solvents.  
Avoid contact to eyes, skin and clothes.  
Do not inhale vapours.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or water bodies.  
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).  
Dispose of the material collected according to regulations.  
Ensure adequate ventilation.  
Complete cleaning with water.
- **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 information on disposal.

### **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Ensure sufficient ventilation.  
Avoid contact with eyes.  
Avoid prolonged or repeated contact with skin.  
Do not eat, drink or smoke while working.  
Read instruction manual for the product before use.

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 19.12.2023

Version number 5 (replaces version 4)

Revision: 19.12.2023

**Trade name: REDOCOL Lino Clean**

(Contd. from page 4)

- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Ensure good room ventilation.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
  - **Requirements to be met by storerooms and containers:**  
Keep container tightly closed.  
Provide solvent resistant, sealed floor.  
Store only undamaged original packaging drums.  
Keep container tightly closed and store upright to prevent any spill of product.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
WEL: workplace exposure limit  
OEL: Occupational Exposure Limit  
IOELV: Indicative Occupational Exposure Limit Values, workplace threshold value of the European Union

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

OEL (Ireland)	Short-term value: 101.2 mg/m <sup>3</sup> , 15 ppm Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm IOELV
IOELV (European Union)	Short-term value: 101.2 mg/m <sup>3</sup> , 15 ppm Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm
WEL (Great Britain)	Short-term value: 101.2 mg/m <sup>3</sup> , 15 ppm Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm

#### 10043-35-3 boric acid

OEL (Ireland)	Long-term value: 2 mg/m <sup>3</sup> Repr. 1B
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#### · DNELs

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

Oral	DNEL (consumer, long-term, systemic)	6.25 mg/kg bw/day (human)
Inhalative	DNEL (worker, short-term, local)	101.2 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, local)	67.5 mg/m <sup>3</sup> (human)

#### 7320-34-5 tetrapotassium pyrophosphate

Inhalative	DNEL (worker, long-term, systemic)	17.63 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, systemic)	4.35 mg/m <sup>3</sup> (human)

#### 68439-50-9 Alcohols, C12-14, ethoxylated

Oral	DNEL (consumer, long-term, systemic)	1.33 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	187 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	66.7 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	19.6 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, systemic)	3.48 mg/m <sup>3</sup> (human)

#### 122-99-6 2-phenoxyethanol

Oral	DNEL (consumer, short-term, systemic)	17.43 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	17.43 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	34.72 mg/kg bw/day (human)

(Contd. on page 6)

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

Printing date 19.12.2023

Version number 5 (replaces version 4)

Revision: 19.12.2023

**Trade name: REDOCOL Lino Clean**

(Contd. from page 5)

Inhalative	DNEL (consumer, long-term, systemic)	20.83 mg/kg bw/day (human)
	DNEL (worker, long-term, systemic)	8.07 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, systemic)	2.41 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, local)	8.07 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, local)	2.41 mg/m <sup>3</sup> (human)

**85536-14-7 Benzenesulfonic acid, 4-C10-13-sec-alkylderivs.**

Oral	DNEL (consumer, long-term, systemic)	0.85 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	170 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	85 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	12 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, systemic)	3 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, local)	12 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, local)	3 mg/m <sup>3</sup> (human)

**10043-35-3 boric acid**

Oral	DNEL (consumer, short-term, systemic)	0.98 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	0.98 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	392 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	196 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	8.3 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, systemic)	4.15 mg/m <sup>3</sup> (human)

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

PNEC aqua (freshwater)	1.1 mg/L (.)
PNEC aqua (marine water)	0.11 mg/L (.)
PNEC soil	0.32 mg/kg soil dw (.)
PNEC sediment (freshwater)	4.4 mg/kg sedim. dw (.)
PNEC sediment (marine water)	0.44 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	11 mg/L (.)
PNEC oral	56 mg/kg food (.)

**68439-50-9 Alcohols, C12-14, ethoxylated**

PNEC aqua (freshwater)	0.003 mg/L (.)
PNEC aqua (marine water)	0 mg/L (.)
PNEC STP - Sewage Treatment Plant	0.2 mg/L (.)
PNEC soil	0.016 mg/kg soil dw (.)
PNEC sediment (freshwater)	0.089 mg/kg sedim. dw (.)
PNEC sediment (marine water)	0.009 mg/kg sedim. dw (.)

**122-99-6 2-phenoxyethanol**

PNEC aqua (freshwater)	0.943 mg/L (.)
PNEC aqua (marine water)	0.0943 mg/L (.)
PNEC STP - Sewage Treatment Plant	24.8 mg/L (.)
PNEC soil	1.26 mg/kg soil dw (.)
PNEC sediment (freshwater)	7.23 mg/kg sedim. dw (.)
PNEC sediment (marine water)	0.7237 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	3.44 mg/L (.)

**10043-35-3 boric acid**

PNEC aqua (freshwater)	2.02 mg/L (.)
PNEC aqua (marine water)	2.02 mg/L (.)

(Contd. on page 7)



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 19.12.2023

Version number 5 (replaces version 4)

Revision: 19.12.2023

**Trade name: REDOCOL Lino Clean**

(Contd. from page 6)

PNEC STP - Sewage Treatment Plant	10 mg/L (.)
PNEC soil	5.4 mg/kg soil dw (.)
PNEC aqua (intermittent releases)	13.7 mg/L (.)

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

### · 8.2 Exposure controls

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

##### · General protective and hygienic measures

Do not eat, drink or smoke while working.

Wash hands during breaks and at the end of the work.

##### · Breathing equipment:

Ensure the availability of suitable extraction/air extraction in the workplace or at work machines.

Not necessary if room is well-ventilated.

Use breathing protection in case of insufficient ventilation.

##### · Hand protection



Protective gloves.

To avoid skin problems reduce the wearing of gloves to the required minimum.

##### · 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.

Nitrile rubber, NBR

PVC gloves

##### · 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



Tightly sealed safety glasses.

## SECTION 9: Physical and chemical properties

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

#### · General Information

##### · Physical state

Fluid

##### · Colour:

Transparent

##### · Odour:

Characteristic

##### · Odour threshold:

Not determined.

##### · Melting point/freezing point:

Not determined

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

100 °C

##### · Flammability

Not applicable.

##### · Lower and upper explosion limit

##### · Lower:

1.4 Vol %

##### · Upper:

5.9 Vol %

##### · Flash point:

Not applicable

##### · Auto-ignition temperature:

204 °C

##### · Decomposition temperature:

Not determined.

(Contd. on page 8)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 19.12.2023

Version number 5 (replaces version 4)

Revision: 19.12.2023

Trade name: REDOCOL Lino Clean

(Contd. from page 7)

<ul style="list-style-type: none"> <li>· <b>SADT</b></li> <li>· <b>pH</b> Not determined.</li> <li>· <b>Viscosity:</b></li> <li>· <b>dynamic:</b> Not determined.</li> <li>· <b>Solubility</b></li> <li>· <b>Water:</b> Fully miscible</li> <li>· <b>Partition coefficient n-octanol/water (log value)</b> Not determined.</li> <li>· <b>Vapour pressure at 20 °C:</b> 23 hPa</li> <li>· <b>Density and/or relative density</b></li> <li>· <b>Density</b> Not determined</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>9.2 Other information</b> No self sustained combustion for the product is shown.</li> <li>· <b>Appearance:</b></li> <li>· <b>Form:</b> Fluid</li> <li>· <b>Important information on protection of health and environment, and on safety.</b></li> <li>· <b>Self-inflammability:</b> Product is not selfigniting.</li> <li>· <b>Explosive properties:</b> Product is not explosive.</li> <li>· <b>Solvent content:</b></li> <li>· <b>Organic solvents:</b> 4.99 %</li> <li>· <b>VOC EU</b> 59.8 - &lt; 149.5 g/l</li> <li>· <b>VOC EU</b> 6 - &lt; 15 %</li> <li>· <b>Water:</b> 65.83 %</li> <li>· <b>Change in condition</b></li> <li>· <b>Evaporation rate</b> Not determined.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Information with regard to physical hazard classes</b></li> <li>· <b>Explosives</b> Void</li> <li>· <b>Flammable gases</b> Void</li> <li>· <b>Aerosols</b> Void</li> <li>· <b>Oxidising gases</b> Void</li> <li>· <b>Gases under pressure</b> Void</li> <li>· <b>Flammable liquids</b> Void</li> <li>· <b>Flammable solids</b> Void</li> <li>· <b>Self-reactive substances and mixtures</b> Void</li> <li>· <b>Pyrophoric liquids</b> Void</li> <li>· <b>Pyrophoric solids</b> Void</li> <li>· <b>Self-heating substances and mixtures</b> Void</li> <li>· <b>Substances and mixtures, which emit flammable gases in contact with water</b> Void</li> <li>· <b>Oxidising liquids</b> Void</li> <li>· <b>Oxidising solids</b> Void</li> <li>· <b>Organic peroxides</b> Void</li> <li>· <b>Corrosive to metals</b> Void</li> <li>· <b>Desensitised explosives</b> Void</li> </ul>	

## 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.

(Contd. on page 9)



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 19.12.2023

Version number 5 (replaces version 4)

Revision: 19.12.2023

**Trade name: REDOCOL Lino Clean**

(Contd. from page 8)

- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
None in case of intended use and storage in compliance with instructions.

### 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 that are relevant for classification:**

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

Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	2,764 mg/kg (rabbit) (OECD 402)
Inhalative	LC0	67.5 mg/l/0.5h (human)

**7320-34-5 tetrapotassium pyrophosphate**

Oral	LD50	> 2,000 mg/kg (rat) (OECD 420)
Dermal	LD50	> 2,000 mg/kg (rabbit) (OECD 402)

**68439-50-9 Alcohols, C12-14, ethoxylated**

Oral	LD50	> 2,000 mg/kg (rat) (OECD 401)
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**122-99-6 2-phenoxyethanol**

Oral	LD50	1,394 mg/kg (ATE) 1,850 mg/kg (rat) (OECD 401)
Dermal	LD50	2,250 mg/kg (rabbit)
Inhalative	LC50	> 1,000 mg/l/6h (rat) (OECD 412)

**85536-14-7 Benzenesulfonic acid, 4-C10-13-sec-alkylderivs.**

Oral	LD50	1,470 mg/kg (rat) (OECD 401)
Dermal	LD50	> 2,000 mg/kg (rat) (OECD 402)

**10043-35-3 boric acid**

Oral	LD50	3,450 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rabbit)
Inhalative	LC50	> 2.03 mg/l/4h (rat) (OECD 403)

- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
May damage fertility. May damage the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**

- **Repeated dose toxicity**

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

Oral	NOAEL (90d)	250 mg/kg bw/day (rat) (OECD 408)
Dermal	NOAEL (90d)	2,000 mg/kg bw/day (rat) (OECD 411)
Inhalative	NOAEC (90d)	94 mg/m <sup>3</sup> (rat) (OECD 413) Vapour

(Contd. on page 10)

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

Printing date 19.12.2023

Version number 5 (replaces version 4)

Revision: 19.12.2023

**Trade name: REDOCOL Lino Clean**

(Contd. from page 9)

**7320-34-5 tetrapotassium pyrophosphate**

Oral NOAEL (90d) 500 mg/kg bw/day (rat) (OECD 408)

**10043-35-3 boric acid**

Oral NOAEL (2y) 17.5 mg/kg bw/day (rat)

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Repr. 1B
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****112-34-5 2-(2-butoxyethoxy)ethanol**

EC50 (static) > 100 mg/l/48h (Daphnia magna) (OECD 202)  
 EC50 (static) > 100 mg/l/96h (Desmodesmus subspicatus) (OECD 201)  
 LC50 (static) 1,300 mg/l/96h (Lepomis macrochirus) (OECD 203)

**7320-34-5 tetrapotassium pyrophosphate**

EC50 (static) > 100 mg/l/48h (Daphnia magna)  
 LC50 (static) > 100 mg/l/96h (Oncorhynchus mykiss) (OECD 203)  
 EC50 > 100 mg/l/72h (algae) (OECD 201)

**68439-50-9 Alcohols, C12-14, ethoxylated**

EC50 (static) 0.125 mg/l/48h (Daphnia magna)  
 LC50 0.423 mg/l/96h (Pimephales promelas) (EU C.1)  
 EC50 (static) 0.044 mg/l/72h (Raphidocelis subcapitata) (OECD 201)

**122-99-6 2-phenoxyethanol**

EC50 (static) > 500 mg/l/48h (Daphnia magna) (OECD 202)  
 LC50 (static) > 200 mg/l/96h (fish) (DIN 38 412)  
 EC50 (static) 625 mg/l/72h (Desmodesmus subspicatus) (EU C.3)

**10043-35-3 boric acid**

EC50 (static) 133 mg/l/48h (Daphnia magna) (ASTM E 729-80)  
 LC50 (static) 49.7 mg/l/96h (Pimephales promelas) (ASTM E729-95)

- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** There are no data available about the preparation.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **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**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
  - **Additional ecological information:**
    - **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system.  
Danger to drinking water if even small quantities leak into soil.

(Contd. on page 11)

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

Printing date 19.12.2023

Version number 5 (replaces version 4)

Revision: 19.12.2023

Trade name: REDOCOL Lino Clean

(Contd. from page 10)

### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

The waste code numbers mentioned are recommendations based on the probable use of the product.

· **European waste catalogue**

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 06 00	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 01*	aqueous washing liquids and mother liquors
HP4	Irritant - skin irritation and eye damage
HP10	Toxic for reproduction

· **Uncleaned packagings:**

· **Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

Non contaminated packagings can be used for recycling.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

### 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, IMDG, IATA**

· **Class** Void

· **14.4 Packing group**

· **ADR/RID, IMDG, IATA** Void

· **14.5 Environmental hazards:**

Not applicable.

· **14.6 Special precautions for user**

Not applicable.

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· **Transport/Additional information:**

Not dangerous according to the above specifications.

· **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.

· **REGULATION (EC) No 1907/2006 ANNEX XVII**

Respect restrictions of according to annex XVII of regulation no. 1907/2006 no. 28, 29 resp. 30 for substances which are carcinogenic, mutagenic or toxic to reproduction:

(Contd. on page 12)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 19.12.2023

Version number 5 (replaces version 4)

Revision: 19.12.2023

**Trade name: REDOCOL Lino Clean**

(Contd. from page 11)

Shall not be placed on the market, or used as substances, as constituents of other substances, or in mixtures, for supply to the general public.

Suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: 'Restricted to professional users'.

Respect restrictions according to annex XVII of regulation 1907/2006 no. 55 for 2-(2-butoxyethoxy) ethanol (DEGBE):

Shall not be placed on the market for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight.

Suppliers shall ensure before the placing on the market for supply to the general public that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3% by weight are visibly, legibly and indelibly marked as follows: "Do not use in paint spraying equipment".

Conditions of restriction: 3, 30, 55

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations**

· **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning women of child-bearing age must be observed.

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

· **Substances of very high concern (SVHC) according to REACH, Article 57**

10043-35-3 | boric acid

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet meets the requirements of Regulation (EU) 2015/830 and 2020/878 amending Annex II of Regulation (EC) 1907/2006.

· **Relevant phrases**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H360FD May damage fertility. May damage the unborn child.

H412 Harmful to aquatic life with long lasting effects.

· **Recommended restriction of use**

Respect restrictions of according to annex XVII of regulation no. 1907/2006 no. 28, 29 resp. 30 for substances which are carcinogenic, mutagenic or toxic to reproduction:

(Contd. on page 13)

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Suppliers shall ensure before the placing on the market for supply to the general public that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3% by weight are visibly, legibly and indelibly marked as follows: "Do not use in paint spraying equipment".

• **Department issuing data specification sheet:**

► **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:  
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,  
phone: (+49) 511 42079 - 0, reach@dekra.com.

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• **Version number of previous version: 4**

• **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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

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

Repr. 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

• **Sources** This safety data sheet was created based on the information provided by the supplier.