

# SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II to Regulation No. 1907/2006 European Parliament and of the Council on the registration, evaluation, authorization and applicable restrictions on chemicals (REACH)


## ROCLEAN®DG100

Creation date	06th July 2023	Version	7.0 EU
Revision date			

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

- 1.1. Product identifier**  
 Substance / mixture: ROCLEAN®DG100 mixture  
 UFI: P8T2-5H8K-V008-G9YX
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
 Liquid for removing greasy dirt  
**Main intended use**  
 PC-CLN-10.1 Cleaners for kitchen areas  
**Mixture uses advised against**  
 The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**  
**Manufacturer**  
 Name or trade name: P.W. ROKO Robert Komorniczak  
 Address: ul. Wąska 23, Komorniki, 62-052 Poland  
 Identification number (CRN): 632379987  
 VAT Reg No: PL7810004269  
 Phone: +48618107819  
 E-mail: biuro@rokochemia.pl  
 Web address: rokochemia.pl  
**Competent person responsible for the safety data sheet**  
 Name: P.W. ROKO Robert Komorniczak  
 E-mail: biuro@rokochemia.pl
- 1.4. Emergency telephone number**  
 European emergency number: 112

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008** The mixture is classified as dangerous.  
  
 Skin Corr. 1B, H314  
 STOT SE 3, H335  
  
 Full text of all classifications and hazard statements is given in the section 16.  
  
**Most serious adverse effects on human health and the environment**  
 May cause respiratory irritation. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life with long lasting effects.
- 2.2. Label elements**  
**Hazard pictogram**  
  
  
**Signal word**  
 Danger  
  
**Hazardous substances**  
 2-aminoethanol

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II  
to Regulation No. 1907/2006  
European Parliament and of the Council on the registration, evaluation, authorization and  
applicable restrictions on chemicals (REACH)

### ROCLEAN® DG100

Creation date	06th July 2023	Version	7.0 EU
Revision date			

#### Hazard statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

#### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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 doctor.

#### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-030-00-8 CAS: 141-43-5 EC: 205-483-3 Registration number: 01-2119486455-28-XXXX	2-aminoethanol	5-10	Acute Tox. 4, H302+H312+H332 Skin Corr. 1B, H314 Specific concentration limit: STOT SE 3, H335: C ≥ 5 %	1
CAS: 160901-09-7 EC: 931-954-4	Alcohols, C12-13, branched and linear, ethoxylated	5-10	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412 Specific concentration limit: Eye Dam. 1, H318: C > 10 % Eye Irrit. 2, H319: 1 % < C ≤ 10 %	
CAS: 7320-34-5 EC: 230-785-7 Registration number: 01-2119489769-18-XXXX	Tetrapotassium pyrophosphate	<5	Eye Irrit. 2, H319	
Index: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6 Registration number: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol	<5	Eye Irrit. 2, H319	1, 2
CAS: 25307-17-9 EC: 246-807-3 Registration number: 01-2119510876-35-XXXX	Ethanol, 2,2'-(9-octadecen-1-ylimino)bis-	<1	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400	

#### Notes

- 1 A substance for which exposure limits are set.
- 2 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II to Regulation No. 1907/2006 European Parliament and of the Council on the registration, evaluation, authorization and applicable restrictions on chemicals (REACH)

### ROCLEAN®DG100

Creation date	06th July 2023	Version	7.0 EU
Revision date			

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

##### **If inhaled**

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

##### **If on skin**

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water or shower. Rinse cautiously with water for several minutes.

##### **If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

##### **If swallowed**

RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

##### 4.2. Most important symptoms and effects, both acute and delayed

##### **If inhaled**

Inhaling vapours can cause corrosion of the breathing system. May cause respiratory irritation.

##### **If on skin**

Causes severe skin burns.

##### **If in eyes**

Causes serious eye damage.

##### **If swallowed**

Corrosion of the digestion system can occur.

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

Symptomatic treatment.

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

##### **Suitable extinguishing media**

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

##### **Unsuitable extinguishing media**

Water - full jet.

##### 5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

##### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II  
to Regulation No. 1907/2006  
European Parliament and of the Council on the registration, evaluation, authorization and  
applicable restrictions on chemicals (REACH)

### ROCLEAN® DG100

Creation date	06th July 2023	Version	7.0 EU
Revision date			

#### SECTION 6: Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

##### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

##### 6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

##### 6.4. Reference to other sections

See the Section 7, 8 and 13.

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

##### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Keep container tightly closed.

Content	Packaging type	Material of package
500 ml	bottle	PE
1000 ml	bottle	PE
5 l	jerry can	PE
10 l	jerry can	PE

Storage class 8B - Non-combustible corrosive substances

##### 7.3. Specific end use(s)

not available

#### SECTION 8: Exposure controls/personal protection

##### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

##### European Union

##### Commission Directive 2006/15/EC

Substance name (component)	Type	Value	Note
2-aminoethanol (CAS: 141-43-5)	OEL 8 hours	2,5 mg/m <sup>3</sup>	Skin
	OEL 8 hours	1 ppm	
	OEL 15 minutes	7,6 mg/m <sup>3</sup>	
	OEL 15 minutes	3 ppm	
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	OEL 8 hours	67,5 mg/m <sup>3</sup>	
	OEL 8 hours	10 ppm	
	OEL 15 minutes	101,2 mg/m <sup>3</sup>	
	OEL 15 minutes	15 ppm	

##### DNEL

2-(2-butoxyethoxy)ethanol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers (0)	Dermal	20 mg/kg	Chronic effects systemic		

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II  
to Regulation No. 1907/2006  
European Parliament and of the Council on the registration, evaluation, authorization and  
applicable restrictions on chemicals (REACH)

### ROCLEAN® DG100

Creation date	06th July 2023	Version	7.0 EU
Revision date			

#### 2-(2-butoxyethoxy)ethanol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers (0)	Inhalation	67.5 mg/m <sup>3</sup>	Chronic effects systemic		
Consumers (0)	Inhalation	50.6 mg/m <sup>3</sup>	Acute effects local		
Consumers (0)	Dermal	10 mg/kg	Chronic effects systemic		
Consumers (0)	Inhalation	34 mg/m <sup>3</sup>	Chronic effects systemic		
Consumers (0)	Oral	1.25 mg/kg	Chronic effects systemic		

#### 2-aminoethanol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers (0)	Dermal	1 mg/kg bw/day	Chronic effects systemic		
Workers (0)	Inhalation	3.3 mg/m <sup>3</sup>	Chronic effects local		
Consumers (0)	Dermal	0.24 mg/kg bw/day	Chronic effects systemic		
Consumers (0)	Inhalation	2 mg/m <sup>3</sup>	Chronic effects local		
Consumers (0)	Oral	3.75 mg/kg/24h	Chronic effects systemic		

#### Ethanol, 2,2'-(9-octadecen-1-ylimino)bis-

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers (0)	Dermal	0.25 mg/kg bw/day	Chronic effects systemic		
Workers (0)	Inhalation	1.76 mg/m <sup>3</sup>	Chronic effects systemic		
Consumers (0)	Dermal	0.179 mg/kg bw/day	Chronic effects systemic		
Consumers (0)	Inhalation	0.621 mg/m <sup>3</sup>	Chronic effects systemic		
Consumers (0)	Oral	0.179 mg/kg bw/day	Chronic effects systemic		

#### PNEC

##### 2-(2-butoxyethoxy)ethanol

Route of exposure	Value	Value determination	Source
Drinking water	1 mg/l		
Marine water	0.1 mg/l		
Freshwater sediment	4 mg/kg		
Sea sediments	0.4 mg/kg		
Soil (agricultural)	0.4 mg/kg		
Microorganisms in sewage treatment	200 mg/l		
Oral	56 mg/kg		

##### 2-aminoethanol

Route of exposure	Value	Value determination	Source
Drinking water	0.085 mg/l		
Marine water	0.0085 mg/l		
Water (intermittent release)	0.025 mg/l		
Microorganisms in sewage treatment	100 mg/l		
Freshwater sediment	0.425 mg/kg		
Sea sediments	0.0425 mg/kg		

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II to Regulation No. 1907/2006 European Parliament and of the Council on the registration, evaluation, authorization and applicable restrictions on chemicals (REACH)

### ROCLEAN®DG100

Creation date	06th July 2023	Version	7.0 EU
Revision date			

2-aminoethanol

Route of exposure	Value	Value determination	Source
Soil (agricultural)	0.035 mg/kg		

Ethanol, 2,2'-(9-octadecen-1-ylimino)bis-

Route of exposure	Value	Value determination	Source
Freshwater sediment	0.171 mg/kg of dry substance of sediment		
Sea sediments	0.0171 mg/kg of dry substance of sediment		
Drinking water	0.000214 µg/l		
Marine water	0.000021 µg/l		
Soil (agricultural)	5.0 mg/kg of dry substance of soil		
Microorganisms in sewage treatment	1.5 mg/l		

#### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

#### Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

#### Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

### SECTION 9: Physical and chemical properties

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

Physical state	liquid
Colour	yellow
color intensity	transparent
Odour	according to fragrance
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	>100 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	11,5-12,5 (undiluted at 20 °C)
Kinematic viscosity	data not available
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II  
to Regulation No. 1907/2006  
European Parliament and of the Council on the registration, evaluation, authorization and  
applicable restrictions on chemicals (REACH)

### ROCLEAN® DG100

Creation date	06th July 2023	Version	7.0 EU
Revision date			

Density and/or relative density	
Density and/or relative density	
Density	1,01-1,06 g/cm <sup>3</sup> at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid

**9.2. Other information**  
not available

#### SECTION 10: Stability and reactivity

- 10.1. Reactivity**  
not available
- 10.2. Chemical stability**  
The product is stable under normal conditions.
- 10.3. Possibility of hazardous reactions**  
Unknown.
- 10.4. Conditions to avoid**  
The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.
- 10.5. Incompatible materials**  
Protect against strong acids, bases and oxidizing agents.
- 10.6. Hazardous decomposition products**  
Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

#### SECTION 11: Toxicological information

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**  
Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

##### Acute toxicity

Based on available data the classification criteria are not met.

2-(2-butoxyethoxy)ethanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>	2410 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD <sub>50</sub>	2764 mg/kg		Rabbit		

2-aminoethanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>	1089 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD <sub>50</sub>	2504 mg/kg		Rat (Rattus norvegicus)		
Inhalation	LD <sub>50</sub>	1.48 mg/l	48 hours	Rat (Rattus norvegicus)		

Alcohols, C12-13, branched and linear, ethoxylated

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>	>300-2000 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rabbit		
Oral	NOAEL	50 mg/kg	2 years	Rat (Rattus norvegicus)		

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II  
to Regulation No. 1907/2006  
European Parliament and of the Council on the registration, evaluation, authorization and  
applicable restrictions on chemicals (REACH)

### ROCLEAN® DG100

Creation date	06th July 2023	Version	7.0 EU
Revision date			

#### ROCLEAN® DG100

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	ATE	4242 mg/kg				Calculation of value
Dermal	ATE	18330 mg/kg				Calculation of value
Inhalation (vapor)	ATE	183.3 mg/l				Calculation of value

#### Tetrapotassium pyrophosphate

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>	4640 mg/kg bw		Rat ( <i>Rattus norvegicus</i> )		
Dermal	LD <sub>50</sub>	>4640 mg/kg bw		Rat ( <i>Rattus norvegicus</i> )		
Inhalation	LC <sub>50</sub>	>1100 mg/l	48 hours	Rat ( <i>Rattus norvegicus</i> )		

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

Causes severe skin burns and eye damage. 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

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - single exposure

May cause respiratory irritation.

#### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

#### Aspiration hazard

Based on available data the classification criteria are not met.

#### 11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Acute toxicity

Harmful to aquatic life with long lasting effects.

2-(2-butoxyethoxy)ethanol

Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>		1300 mg/l	96 hours	Fish ( <i>Oncorhynchus mykiss</i> )	
EL <sub>50</sub>		>100 mg/l		Aquatic invertebrates ( <i>Daphnia magna</i> )	
EC <sub>50</sub>	OECD 201	>100 mg/ml		Algae ( <i>Scenedesmus subspicatus</i> )	



## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II  
to Regulation No. 1907/2006  
European Parliament and of the Council on the registration, evaluation, authorization and  
applicable restrictions on chemicals (REACH)

### ROCLEAN® DG100

Creation date	06th July 2023	Version	7.0 EU
Revision date			

#### 2-aminoethanol

Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>		349 mg/l	96 hours	Fish (Cyprinus carpio)	
LC <sub>50</sub>		65 mg/l	48 hours	Daphnia (Daphnia magna)	
ErC <sub>50</sub>		2.5 mg/l	72 hours	Algae and other aquatic plants (Pseudokirchneriella subcapitata)	
EC <sub>50</sub>		>1000 mg/l	3 hours	Microorganisms	
NOEC		0.85 mg/l		Daphnia (Daphnia magna)	

#### Alcohols, C12-13, branched and linear, ethoxylated

Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>	OECD 203	>1-10 mg/l	96 hours	Fish (Poecilia reticulata)	
EC <sub>10</sub>		>0.1-1 mg/l		Fish (Pimephales promelas)	
EC <sub>50</sub>	OECD 202	>1-10 mg/l	48 hours	Daphnia (Daphnia magna)	
EC <sub>10</sub>	OECD 211	>0.1-1 mg/l		Daphnia (Daphnia magna)	
EC <sub>50</sub>	OECD 201	>1-10 mg/l	72 hours	Algae (Selenastrum capricornutum)	
NOEC	OECD 201	>1-10 mg/l	72 hours	Algae (Desmodesmus subspicatus)	
EC <sub>50</sub>		140 mg/l		Bacteria	

#### Ethanol, 2,2'-(9-octadecen-1-ylimino)bis-

Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>		<1 mg/l	96 hours	Fish (Carassius auratus)	
EC <sub>50</sub>		<1 mg/l	48 hours	Daphnia (Daphnia magna)	

### 12.2. Persistence and degradability

#### Biodegradability

##### 2-(2-butoxyethoxy)ethanol

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301C	80-90 %			Easily biodegradable

##### 2-aminoethanol

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301A	>90 %			Easily biodegradable

#### Alcohols, C12-13, branched and linear, ethoxylated

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	>60 %	28 days		Easily biodegradable
	OECD 311	>60 %	69 days		Biodegradable

#### Ethanol, 2,2'-(9-octadecen-1-ylimino)bis-

Parameter	Method	Value	Exposure time	Environment	Result
		>60 %	28 days		Biodegradable

not available

### 12.3. Bioaccumulative potential

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II  
to Regulation No. 1907/2006  
European Parliament and of the Council on the registration, evaluation, authorization and  
applicable restrictions on chemicals (REACH)

### ROCLEAN® DG100

Creation date	06th July 2023	Version	7.0 EU
Revision date			

2-aminoethanol

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	1.91				

Not available.

#### 12.4. Mobility in soil

Alcohols, C12-13, branched and linear, ethoxylated

Parameter	Value	Environment	Temperature
Koc	>5000		

Not available.

#### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

#### 12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

#### 12.7. Other adverse effects

Not available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

### SECTION 14: Transport information

#### 14.1. UN number or ID number

UN 3266

#### 14.2. UN proper shipping name

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

#### 14.3. Transport hazard class(es)

8 Corrosive substances

#### 14.4. Packing group

III - substances presenting low danger

#### 14.5. Environmental hazards not

relevant

#### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

#### 14.7. Maritime transport in bulk according to IMO instruments not

relevant

# SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II  
to Regulation No. 1907/2006  
European Parliament and of the Council on the registration, evaluation, authorization and  
applicable restrictions on chemicals (REACH)

## ROCLEAN® DG100

Creation date	06th July 2023	Version	7.0 EU
Revision date			

### Additional information

Hazard identification No.	<b>80</b>
UN number	<b>3266</b>
Classification code	C5
Safety signs	8



### Air transport - ICAO/IATA

Packaging instructions passenger	852
Cargo packaging instructions	856

### Marine transport - IMDG

EmS (emergency plan)	F-A, S-B
----------------------	----------

## SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

2-(2-butoxyethoxy)ethanol

Restriction	Conditions of restriction
55	<p>1. Shall not be placed on the market for the first time after 27 June 2010, 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.</p> <p>2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.</p> <p>3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows:</p> <p>“Do not use in paint spraying equipment”.</p>

#### Additional information in accordance with Regulation (EC) no. 648/2004 on detergents, as amended

5-<15 % non-ionic surfactants, <5 % phosphates, <5 % anionic surfactants, <5 % EDTA and salts thereof

### 15.2. Chemical safety assessment

not available

## SECTION 16: Other information

### A list of standard risk phrases used in the safety data sheet

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II  
to Regulation No. 1907/2006  
European Parliament and of the Council on the registration, evaluation, authorization and  
applicable restrictions on chemicals (REACH)

### ROCLEAN®DG100

Creation date	06th July 2023	Version	7.0 EU
Revision date			

H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
<b>Guidelines for safe handling used in the safety data sheet</b>	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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 doctor.

#### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

#### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC <sub>10</sub>	Concentration of a substance when it is affected 10% of the population
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL <sub>50</sub>	Effective Loading for 50% of the tested organisms
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
log K <sub>ow</sub>	Octanol-water partition coefficient
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II to Regulation No. 1907/2006 European Parliament and of the Council on the registration, evaluation, authorization and applicable restrictions on chemicals (REACH)

### ROCLEAN®DG100

Creation date	06th July 2023	Version	7.0 EU
Revision date			

Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Skin Corr.	Skin corrosion
STOT SE	Specific target organ toxicity - single exposure

#### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

#### Recommended restrictions of use

not available

#### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

#### The changes (which information has been added, deleted or modified)

The version 7.0 replaces the SDS version from 14 December 2022. Changes were made in sections 1, 2, 11, 15 and 16.

#### More information

Classification procedure - calculation method.

#### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.