

According to Regulation (EC) No 1907/2006

SOLEX®

Version number: 7
Issued: 2025-03-03
Replaces SDS: 2021-09-30



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

1.1. Product identifier

Trade name

SOLEX®

UFI code

R2J9-RWTK-YW0A-52RA

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

Relevant identified uses

Basic cleaner for professional users.

Not suitable for use in

All other uses are discouraged.

1.3. Details of the supplier of the safety data sheet

Supplier

KLEEN PURGATIS GmbH

Address

Dieselstraße 10
32120 Hiddenhausen
Germany

Telephone

+49 (0) 5223 9970-40

Email

info@kleen-purgatis.de

Fax

+49 (0) 5223 9970-195

Web site

www.kleenpurgatis.de

Contact person

Regulatory Affairs

Email

info@kleen-purgatis.de

1.4. Emergency telephone number

+49 (0)551 - 19240 (GIZ-Nord)

Available outside office hours

Yes

According to Regulation (EC) No 1907/2006

Solex

Version number: 7
Issued: 2025-03-03
Replaces SDS: 2021-09-30

KLEEN
PURGATIS

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Eye irritation, hazard category 2

Skin sensitisation, hazard category 1, sub-category 1B

Hazard statements

H317, H319

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statements

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

P264 Wash hands thoroughly after handling.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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

More information

Hazard components for labeling: benzyl alcohol

2.3. Other hazards

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

According to Regulation (EC) No 1907/2006

Solex

Version number: 7
 Issued: 2025-03-03
 Replaces SDS: 2021-09-30



KLEEN
PURGATIS

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-pharse M factor acute M factor chronic	Specific concentration limits	Note
1-propoxypropan-2-ol	1569-01-3 216-372-4 01-2119474443-37-xxxx -	1 - <5%	Flam. Liq. 3, Eye Irrit. 2	H226, H319 - -	-	-
benzyl alcohol	100-51-6 202-859-9 01-2119492630-38-xxxx 603-057-00-5	1 - <5%	Acute Tox. 4 - oral, Skin Sens. 1B, Eye Irrit. 2	H302, H317, H319 - -	-	ATE (oral) = 1200 mg/kg
propan-1-ol	71-23-8 200-746-9 01-2119486761-29-xxxx 603-003-00-0	1 - <2%	Flam. Liq. 2, Eye Dam. 1, STOT SE 3 - narcosis	H225, H318, H336 - -	-	-

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Description of first aid measures

First responders: Pay attention to self-protection.

Inhalation

Take the victim into fresh air. If symptoms persist, call a physician.

Skin contact

Wash off with soap and water.

Eye contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Consult a physician if necessary.

Information for doctors

Show this safety data sheet to the doctor in attendance.

According to Regulation (EC) No 1907/2006

Solex

Version number: 7
Issued: 2025-03-03
Replaces SDS: 2021-09-30



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

Immediate effects can be expected after long-term exposure.

Inhalation

May cause throat irritation.

Skin contact

May cause skin irritation.

Eye contact

May cause eye irritation.

Ingestion

Ingestion may cause stomach irritation, nausea, vomiting and diarrhoea.

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

Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self contained breathing apparatus.

Measures in case of fire

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Avoid direct contact with the material / product. Ensure adequate ventilation.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

According to Regulation (EC) No 1907/2006

Solex

Version number: 7
Issued: 2025-03-03
Replaces SDS: 2021-09-30

KLEEN
PURGATIS

6.3. Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4. Reference to other sections

For information on storage and handling see section 7.

For information on exposure and personal protective equipment, see Section 8.

For information on incompatible materials, see Section 10.

For information on disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Wear personal protective equipment. Avoid direct contact with the material / product.

General hygiene

Wash hands after handling.

When using, do not eat, drink or smoke.

The usual precautionary measures when handling chemicals must be observed.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Keep away from food, drink and animal feeding stuffs.

Store in a place accessible by authorized persons only.

Storage class according to TRGS 510: 12 (non-flammable liquids)

Storage temperature: 10 °C to 40 °C

7.3. Specific end use(s)

GISCODE: GG50

See section 1.2: Basic cleaner

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Source	Remark	Year
1-propoxypropan-2-ol (EU)	1569-01-3 216-372-4	50 / - /	75 / - /	Dow IHG		-

According to Regulation (EC) No 1907/2006

Solex

Version number: 7
Issued: 2025-03-03
Replaces SDS: 2021-09-30

KLEEN
PURGATIS

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
benzyl alcohol (100-51-6/202-859-9)	DNEL	Chronic (long term) Oral	4 mg/kg	Consumers	Systemic
benzyl alcohol (100-51-6/202-859-9)	DNEL	Chronic (long term) Dermal	8 mg/kg	Workers	Systemic
benzyl alcohol (100-51-6/202-859-9)	DNEL	Chronic (long term) Inhalation	22 mg/m ³	Workers	Systemic
propan-1-ol (71-23-8/200-746-9)	DNEL	Chronic (long term) Oral	61 mg/kg	Consumers	Systemic
propan-1-ol (71-23-8/200-746-9)	DNEL	Chronic (long term) Dermal	136 mg/kg	Workers	Systemic
propan-1-ol (71-23-8/200-746-9)	DNEL	Chronic (long term) Inhalation	268 mg/m ³	Workers	Systemic

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
benzyl alcohol (100-51-6/202-859-9)	PNEC	Freshwater	1 mg/l
benzyl alcohol (100-51-6/202-859-9)	PNEC	Soil	0.456 mg/kg
benzyl alcohol (100-51-6/202-859-9)	PNEC	Sewage Treatment Plant	39 mg/l
propan-1-ol (71-23-8/200-746-9)	PNEC	Freshwater	10 mg/l
propan-1-ol (71-23-8/200-746-9)	PNEC	Sewage Treatment Plant	96 mg/l
propan-1-ol (71-23-8/200-746-9)	PNEC	Soil	2.2 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Eye / face protection

Safety glasses with side-shields conforming to EN166

Hand protection

Wear chemical-resistant disposable protective gloves according to EN 374.

According to Regulation (EC) No 1907/2006

Solex

Version number: 7
Issued: 2025-03-03
Replaces SDS: 2021-09-30



KLEEN
PURGATIS

Other skin protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

Respiratory protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

Thermal hazards

Not applicable

Environmental exposure controls

No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Colourless

Odour

perfumed

Odour threshold

Not determined for the mixture.

Melting point / freezing point

Not determined for the mixture.

Boiling point or initial boiling point and boiling range

Not determined for the mixture.

Flammability

Not applicable.

Lower and upper explosion limit

The product / mixture has no explosive properties.

Flash point

No data available

Auto-ignition temperature

Not applicable.

Decomposition temperature

Not determined for the mixture.

According to Regulation (EC) No 1907/2006

Solex

Version number: 7
Issued: 2025-03-03
Replaces SDS: 2021-09-30

KLEEN
PURGATIS

pH

10

Kinematic viscosity

Not determined for the mixture.

Viscosity, dynamic

Not determined for the mixture.

Solubility

Water soluble

Water solubility

Miscible

Partition coefficient n-octanol/water

Not determined for the mixture.

Vapour pressure

Not determined for the mixture.

Density and/or relative density

0.998 g/cm³

Relative vapour density

Not determined for the mixture.

Evaporation Rate

Not determined for the mixture.

Explosive properties

The product / mixture has no explosive properties.

Oxidising properties

The product / mixture has no oxidizing properties.

VOC %

VOC (CH): 4,0 %

Particle characteristics

This product / mixture does not contain any nanomaterials or nanoforms as defined in Regulation (EC) 1907/2006.

9.2. Other information

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at normal conditions

According to Regulation (EC) No 1907/2006

Solex

Version number: 7
Issued: 2025-03-03
Replaces SDS: 2021-09-30



10.2. Chemical stability

The product is chemically stable.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Protect from frost, heat and sunlight.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

For information on combustion products, see Section 5.

SECTION 11: Toxicological information

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

Toxicology data for the components

Acute toxicity

Based on the available data, the classification criteria are not met.

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
benzyl alcohol 100-51-6 / 202-859-9	LC50	>4.178 mg/l	Inhalative	4h	rat	-
benzyl alcohol 100-51-6 / 202-859-9	LD50	1.620 mg/kg	Oral	-	rat	-
propan-1-ol 71-23-8 / 200-746-9	LC50	>33,8 mg/l	Inhalation	4h	rat	OECD 403
1-propoxy- propan-2-ol 1569-01-3 / 216-372-4	LD50	> 2.000 mg/kg	Dermal	-	rabbit	-
1-propoxy- propan-2-ol 1569-01-3 / 216-372-4	LD50	> 2.000 mg/kg	Oral	-	rat	-

Skin corrosion/irritation

Based on the available data, the classification criteria are not met.

According to Regulation (EC) No 1907/2006

Solex

Version number: 7
Issued: 2025-03-03
Replaces SDS: 2021-09-30



Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on the available data, the classification criteria are not met.

Reproductive toxicity

Based on the available data, the classification criteria are not met.

STOT-single exposure

Based on the available data, the classification criteria are not met.

STOT-repeated exposure

Based on the available data, the classification criteria are not met.

Aspiration hazard

Based on the available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
benzyl alcohol 100-51-6 / 202-859-9	LC50	460 mg/l	96h	Pimephales promelas (fathead minnow)	-
propan-1-ol 71-23-8 / 200-746-9	LC50	4.555 mg/l	96h	Pimephales promelas (fathead minnow)	OECD 203
propan-1-ol 71-23-8 / 200-746-9	LC50	3.200 mg/l	48h	Rainbow trout	-

According to Regulation (EC) No 1907/2006

Solex

Version number: 7
 Issued: 2025-03-03
 Replaces SDS: 2021-09-30



KLEEN
PURGATIS

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
1-propoxy- propan-2-ol 1569-01-3 / 216-372-4	LC50	> 100 mg/l	96 h	Rainbow trout	OECD 203

Acute algae toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
benzyl alcohol 100-51-6 / 202-859-9	EC50	770 mg/l	72h	Pseudokirchneriella subcapitata	OECD 201
propan-1-ol 71-23-8 / 200-746-9	EC50	9.170 mg/l	48h	Pseudokirchneriella subcapitata	Growth rate
1-propoxy- propan-2-ol 1569-01-3 / 216-372-4	ErC50	1.466 mg/l	96 h	Pseudokirchneriella subcapitata	OECD 201

Acute crustacean toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
benzyl alcohol 100-51-6 / 202-859-9	EC50	230 mg/l	48h	Daphnia magna (Water flea)	OECD 202
1-propoxy- propan-2-ol 1569-01-3 / 216-372-4	LC50	> 100 mg/l	48 h	Daphnia magna (Water flea)	OECD 202

Micro-/macro organism toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
benzyl alcohol 100-51-6 / 202-859-9	IC50	2.100 mg/l	-	Activated sludge	ISO8192, 49h

According to Regulation (EC) No 1907/2006

Solex

Version number: 7
Issued: 2025-03-03
Replaces SDS: 2021-09-30

KLEEN
PURGATIS

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
propan-1-ol 71-23-8 / 200-746-9	EC10	2.700 mg/l	16h	Pseudomonas putida	-
1-propoxy- propan-2-ol 1569-01-3 / 216-372-4	EC50	3.800 mg/l	16 h	Bacteria	-

12.2. Persistence and degradability

The surfactants contained in this mixture / product meet the requirements for biodegradability in accordance with Regulation (EC) No. 648/2004 on detergents.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

12.6. Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

12.7. Other adverse effects

This product / mixture does not contain any substances within the meaning of Regulation (EC) No. 1005/2009 that deplete the ozone layer.

Other

German Water Class

WGK1 - slightly water endangering

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of as hazardous waste in compliance with local and national regulations.

Packaging

Do not re-use empty containers. Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging: Dispose of as unused product.

According to Regulation (EC) No 1907/2006

Solex

Version number: 7
Issued: 2025-03-03
Replaces SDS: 2021-09-30

KLEEN
PURGATIS

Waste code	Waste description
20 01 29*	detergents containing hazardous substances

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

SECTION 14: Transport information

14.1. UN number

No dangerous goods in the sense of the transport regulations

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3. Transport hazard class(es)

Label

Not classified as dangerous in the meaning of transport regulations.

14.4. Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5. Environmental hazards

Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6. Special precautions for user

Special precautions for user

The usual precautionary measures when handling chemicals must be observed.

14.7. Maritime transport in bulk according to IMO instruments

Not classified as dangerous in the meaning of transport regulations.

Other

Not applicable

According to Regulation (EC) No 1907/2006

Solex

Version number: 7
 Issued: 2025-03-03
 Replaces SDS: 2021-09-30



SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 648/2004 (detergents)

Ingredients according to Annex VII: < 5 % anionic surfactants, contains perfumes.

Regulation (EC) No. 1272/2008 (CLP)

EU Regulation (EC) No. 1907/2006 (REACH)

Substances subject to authorization according to Annex XIV: No

Substance restrictions according to Annex XVII: No

Substances on the REACH candidate list (SVHC): No

Regulation (EU) No. 528/2012 (BPR)

Active ingredients: not applicable

Regulation (EU) 2019/1148 (explosives)

Restricted raw material according to Annex I: not applicable

Notifiable raw materials according to Annex II: not applicable

Directive 2011/65 / EU (ROHS 2)

Substance restrictions according to Annex II: not applicable

Regulation (EU) 2019/1021 (POP)

Persistent organic pollutants: not applicable

Directive 2012/18/EU (Seveso III)

Seveso hazard category: not applicable

National regulations

In addition, comply with all national and local regulations for the handling of chemicals.

Other regulations, limitations and legal regulations

Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

The mixture has not been subjected to a safety assessment.

SECTION 16: Other information

Changes to previous revision

Section 2 & 3: Change in classification and labeling: benzyl alcohol

Section 9. Physical and chemical properties

Abbreviations

ADN - European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR - The European Agreement concerning the International Carriage of Dangerous Goods by

According to Regulation (EC) No 1907/2006

Solex

Version number: 7
 Issued: 2025-03-03
 Replaces SDS: 2021-09-30

KLEEN
PURGATIS

Road

CAS - Chemical Abstract Service

CLP - Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DMEL - Derived Minimum Effect Level

DNEL - Derived No Effect Level

EC50 - Half maximal effective concentration 50%

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

IATA - International Air Transport Association

IMDG - International Maritime Dangerous Goods

LC50 - Lethal concentration 50%

LD50 - Lethal dosis 50 %

MARPOL - International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" - marine pollution)

PBT - Persistent, bioaccumulative and toxic substance

PEC - Predicted Environmental Concentration

PNEC - Predicted No Effect Concentration

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals

RID - The regulations concerning the International Carriage of Dangerous Goods by Rail

SVHC - Substance of Very High Concern

vPvB - Very persistent, very bioaccumulative substance

References to key literature and data sources

REACH registration dossiers

ECHA C&L - Inventory

Safety data sheets from raw material suppliers

Evaluation methods for classification

Classification for mixtures and used evaluation method according to Article 9 of regulation (EC) 1272/2008 [CLP]:

Health hazards: calculation method

Phrase meaning

Eye Irrit. 2 - Eye irritation, hazard category 2

Skin Sens. 1B - Skin sensitisation, hazard category 1, sub-category 1B

Flam. Liq. 2 - Flammable liquids, hazard category 2

Eye Dam. 1 - Serious eye damage, hazard category 1

STOT SE 3 - narcosis - Specific Target Organ Toxicity — Single exposure, hazard category 3 - narcosis

Flam. Liq. 3 - Flammable liquids, hazard category 3

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

According to Regulation (EC) No 1907/2006

Solex

Version number: 7
Issued: 2025-03-03
Replaces SDS: 2021-09-30



Additional information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878.

Manufacturer's notes

Legal disclaimer: The above information is believed to be correct. This company shall not be held liable for any damage resulting from handling or from contact with the above product.