

SAFETY DATA SHEET

Sigel GL186 / GL286 cleaning spray

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	12.01.2015
Revision date	17.05.2019

1.1. Product identifier

Product name	Sigel GL186 / GL286 cleaning spray
Article no.	L03000000094 / KLM006

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

Product group	Whiteboardcleaner
Relevant identified uses	SU21 Consumer uses: Private households (= general public = consumers) SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen) PC35 Washing and cleaning products (including solvent based products) PROC10 Roller application or brushing ERC11B Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing)
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Producer

Company name	Kleinmann GmbH
Postal address	Am Trieb 13
Postcode	D-72820
City	Sonnenbuehl
Country	Germany
Telephone number	+49(0)7128/9292-15
Fax	+49(0)7128/9292-415
Email	chemie@kleinmann.net

Website <http://www.kleinmann.net>

Enterprise No. DE 146 487

1.4. Emergency telephone number

Emergency telephone Description: 8-12, Mo.-Fr. +49(0)7128/9292-15

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Substance / mixture hazardous properties The product is not classified.
Not regarded as a health or environmental hazard under current legislation.

2.2. Label elements

Hazard statements EUH 210 Safety data sheet available on request.

2.3. Other hazards

Health effect The product contains organic solvents.

Environmental effects This product does not contain any PBT or vPvB substances.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH Reg. No.: 01-2119457558-25-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	1 - 5 %	
2-Butoxyethanol	CAS No.: 111-76-2 EC No.: 203-905-0 Index No.: 603-014-00-0 REACH Reg. No.: 01-2119475108-36-xxxx	Acute tox. 4; H332 Acute tox. 4; H312 Acute tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315	1 - 5 %	
Substance comments	<1% Perfume The full text for all hazard statements is displayed in section 16.			

SECTION 4: First aid measures

4.1. Description of first aid measures

General Remove affected person from source of contamination.

Inhalation Fresh air. Get medical attention if any discomfort continues.

Skin contact Rinse with water. Get medical attention if any discomfort continues.

Eye contact Rinse with water. Contact physician if discomfort continues.

Ingestion Rinse mouth with water. Get medical attention if any discomfort continues.

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

Acute symptoms and effects	No specific symptoms noted.
Delayed symptoms and effects	No known long term effects.

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

Other information	If unconscious: Call an ambulance/physician immediately. Show this Safety Data Sheet.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
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5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Follow the general fire precautions indicated by the workplace.
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5.3. Advice for firefighters

Personal protective equipment	Wear necessary protective equipment. For personal protection, see section 8.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Avoid contact with eyes and prolonged skin contact.
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6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into water courses or onto the ground.
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6.3. Methods and material for containment and cleaning up

Cleaning method	Recover the product and place in a suitable container for reuse. Flush contaminated area with plenty of water.
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6.4. Reference to other sections

Other instructions	See section 8 and section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	No specific usage precautions noted.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in closed original container in a dry place.
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Conditions for safe storage

Technical measures and storage conditions	Lagerklasse: 12
Storage temperature	Value: 0 - 35 °C
Storage stability	Durability: 24 months.

7.3. Specific end use(s)

Specific use(s)	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Propan-2-ol	CAS No.: 67-63-0	Limit value (8 h) : 200 ppm Limit value (8 h) : 490 mg/m ³ Limit value (8 h) : 400 ppm Limit value (short term) Value: 1250 mg/m ³	TWA Year: 2011
2-Butoxyethanol	CAS No.: 111-76-2	Limit value (8 h) : 98 mg/m ³ ; H Limit value (8 h) : 20 ppm; H	TWA Year: 2011

DNEL / PNEC

Substance	Propan-2-ol
DNEL	<p>Group: Consumer Route of exposure: Long-term inhalation (systemic) Value: 89 mg/m³ Reference: ECHA</p> <p>Group: Professional Route of exposure: Long-term dermal (systemic) Value: 888 mg/kg bw/day Reference: ECHA</p> <p>Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 500 mg/m³ Reference: ECHA</p> <p>Group: Consumer Route of exposure: Long-term dermal (systemic) Value: 319 mg/kg bw/day Reference: ECHA</p> <p>Group: Consumer Route of exposure: Long-term oral (systemic) Value: 26 mg/kg bw/day Reference: ECHA</p>

PNEC

Route of exposure: Sewage treatment plant STP
Value: 2251 mg/l

Route of exposure: Soil
Value: 25 mg/kg

Route of exposure: Freshwater
Value: 140,9 mg/l

Route of exposure: Saltwater sediments
Value: 552 mh/kg

Route of exposure: Freshwater sediments
Value: 552 mg/kg

Route of exposure: Saltwater
Value: 140,9 mg/l

Value: 140,9

Reference: Intermittent releases

Substance

2-Butoxyethanol

DNEL

Group: Industrial

Route of exposure: Long-term dermal (systemic)
Value: 75 mg/kg/d

Group: Consumer

Route of exposure: Acute inhalation (systemic)
Value: 426 mg/m³

Group: Consumer

Route of exposure: Acute oral (systemic)
Value: 13.4 mg/kg/d

Group: Consumer

Route of exposure: Long-term dermal (systemic)
Value: 38 mg/kg/d

Group: Consumer

Route of exposure: Acute dermal (systemic)
Value: 44.5 mg/kg/d

Group: Industrial

Route of exposure: Long-term inhalation (systemic)
Value: 98 mg/m³

Group: Industrial

Route of exposure: Acute inhalation (systemic)
Value: 652 mg/m³

Group: Industrial

Route of exposure: Acute dermal (systemic)
Value: 89 mg/kg/d

Group: Consumer

Route of exposure: Long-term oral (systemic)
Value: 3.2 mg/kg/d

PNEC

Route of exposure: Saltwater**Value:** 0.88 mg/l**Route of exposure:** Sewage treatment plant STP**Value:** 463 mg/l**Route of exposure:** Freshwater**Value:** 8.8 mg/l**Route of exposure:** Soil**Value:** 2.8 mg/kg**Route of exposure:** Freshwater sediments**Value:** 34.6 mg/kg**Route of exposure:** Saltwater sediments**Value:** 3.46 mg/kg

8.2. Exposure controls

Precautionary measures to prevent exposure

Technical measures to prevent exposure

No special precautions.

Eye / face protection

Suitable eye protection

Eye protection is not required under normal conditions.

Hand protection

Skin- / hand protection, long term contact

Hand protection is not required for normal use.

Skin protection

Additional skin protection measures

No special precautions.

Respiratory protection

Respiratory protection necessary at

Under normal conditions of use respiration protection should not be required.

Thermal hazards

Thermal hazards

No recommendation given.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Fluid.

Colour

Colourless.

Odour

Perfume.

pH	Status: In delivery state Value: ~ 7,0
	Status: In aqueous solution Comments: Not relevant.
Melting point / melting range	Comments: Not relevant.
Boiling point / boiling range	Comments: Not relevant.
Flash point	Value: 49 °C Comments: Negative results are obtained in sustained combustibility test L.2., Part III, section 32 of the UN RTDG, Manual of Tests and Criteria, and classification as Flammable liquid and vapour in Category 3, is not needed.
Evaporation rate	Comments: Not relevant.
Flammability (solid, gas)	Not relevant.
Explosion limit	Comments: Not relevant.
Vapour pressure	Comments: Not relevant.
Relative density	Value: 0,98 - 0,99 g/ml
Solubility	Medium: Water Comments: Completely soluble in water.
Partition coefficient: n-octanol/ water	Comments: Not relevant.
Spontaneous combustibility	Comments: Not relevant.
Decomposition temperature	Comments: Not relevant.
Viscosity	Value: < 50 mPa s
Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

Other physical and chemical properties

Comments No data recorded.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions See section 10.4 and section 10.5.

10.4. Conditions to avoid

Conditions to avoid No recommendation given.

10.5. Incompatible materials

Materials to avoid None in particular.

10.6. Hazardous decomposition products

Hazardous decomposition products During fire, toxic gases (CO, CO₂) are formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance Propan-2-ol

Acute toxicity

Type of toxicity: Acute
Effect tested: LD50
Route of exposure: Oral
Value: 5840 mg/kg
Animal test species: Rat
Test reference: OECD Guideline 401
Comments: ECHA

Type of toxicity: Acute
Effect tested: LC50
Route of exposure: Inhalation.
Duration: 6 hour(s)
Value: > 10000 ppm
Animal test species: Rat
Test reference: OECD Guideline 403
Comments: ECHA

Type of toxicity: Acute
Effect tested: LD50
Route of exposure: Dermal
Duration: 24 hour(s)
Value: 16,4 ml/kg
Animal test species: Rabbit
Test reference: OECD Guideline 402
Comments: ECHA

Substance

2-Butoxyethanol

Acute toxicity

Type of toxicity: Acute
Effect tested: LD50
Route of exposure: Oral
Value: 1300 mg/kg
Animal test species: Rat

Type of toxicity: Acute
Effect tested: LD50
Route of exposure: Dermal
Value: 1100 mg/kg
Test reference: OECD Guideline 402

Type of toxicity: Acute
Effect tested: LC50
Route of exposure: Inhalation.
Value: 1,5 mg/l

Other toxicological data

Toxicological tests on the product has not been performed.

Other information regarding health hazards

Assessment of acute toxicity, classification	No evidence for acute toxicity.
Substance	Propan-2-ol
Eye damage or irritation, test results	Toxicity type: Eye irritation Method: OECD 405 Species: Rabbit Evaluation result: Result: Irritation to eye.
Inhalation	No specific symptoms noted.
Skin contact	Skin irritation is not anticipated when used normally.
Eye contact	May cause temporary eye irritation.
Ingestion	Not likely, due to the packaging.
Sensitisation	No evidence for respiratory nor skin sensitization.
Mutagenicity	No evidence for germ cell mutagenicity.
Carcinogenicity, other information	No evidence for carcinogenicity.
Reproductive toxicity	No evidence for reproductive toxicity.
Assessment of specific target organ toxicity - single exposure, classification	No evidence for STOT-single exposure.
Assessment of specific target organ toxicity - repeated exposure, classification	No evidence for STOT-repeated exposure.
Assessment of aspiration hazard, classification	No evidence for aspiration hazard.

Symptoms of exposure

Symptoms of overexposure	No specific symptoms noted.
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SECTION 12: Ecological information

12.1. Toxicity

Substance	Propan-2-ol
Aquatic toxicity, fish	Value: 8970 - 9280 mg/l Test duration: 48 hour(s) Species: Leuciscus idus melanotus Method: LC50
Substance	2-Butoxyethanol

Aquatic toxicity, fish	Value: 1474 mg/l Test duration: 96h Species: Oncorhynchus mykiss Method: OECD TG 203
Substance	Propan-2-ol
Aquatic toxicity, algae	Value: 1800 mg/l Test duration: 8 day(s) Species: Scenedesmus quadricauda Method: TGK
Substance	2-Butoxyethanol
Aquatic toxicity, algae	Value: 1840 mg/l Test duration: 72 hour(s) Species: Pseudokirchneriella subcapitata Method: OECD TG 201
Substance	Propan-2-ol
Aquatic toxicity, crustacean	Value: 9715 mg/l Test duration: 24 hour(s) Species: Daphnia magna Method: LC50
Substance	2-Butoxyethanol
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 100 mg/l Exposure time: 21 day(s) Species: Daphnia magna Method: NOEC Value: 1550 mg/l Test duration: 4h Species: Daphnia magna Method: OECD TG 202
Aquatic, comments	No data available for the product.

12.2. Persistence and degradability

Substance	Propan-2-ol
Biodegradability	Value: 95 % Method: OECD 301E Test period: 21 day(s)
Substance	2-Butoxyethanol
Biodegradability	Value: 90 % Method: OECD 301B Test period: 28 day(s)
Persistence and degradability, comments	The product is easily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	The product is not bioaccumulating.
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12.4. Mobility in soil

Mobility The product is water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

PBT assessment results Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal Do not empty into drains; dispose of this material and its container in a safe way. Dispose of waste and residues in accordance with local authority requirements.

EWC waste code EWC waste code: 0706
Classified as hazardous waste: No

EWL packing EWC waste code: 0706
Classified as hazardous waste: No

Other information Waste code applies to product remnants in pure form. When handling waste, consideration should be made to the safety precautions applying to handling of the product.

SECTION 14: Transport information

14.1. UN number

Comments The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.2. UN proper shipping name

Comments Not relevant.

14.3. Transport hazard class(es)

Comments Not relevant.

14.4. Packing group

Comments Not relevant.

14.5. Environmental hazards

Comments Not relevant.

14.6. Special precautions for user

Special safety precautions for user No data recorded.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

