

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jul 2023

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## KERALIT® STRAHL-LIQUIDE

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

#### 1.1. Product identifier

Trade name/designation:

KERALIT® STRAHL-LIQUIDE

UFI:

T300-P0H0-1001-GYYX

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

Use of the substance/mixture:

Relevant identified uses : Pflegeprodukte für Pferde  
/ care products for horses

Uses advised against Nicht am Menschen anwenden. / Do not use on humans.

Relevant identified uses:

Life cycle stage [LCS]

PW: Widespread use by professional workers

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Keralit® Veterinär- und Pferdetechnik GmbH

Brenntenhau 1  
71106 Magstadt

Telephone: +49 7159 42848

Telefax: +49 7159 42701

E-mail: keralit@aol.com

E-mail (competent person): keralit@aol.com

#### 1.4. Emergency telephone number

DI RUFF Florian - +49 7159 42848, 24h: 030 30686700 (Giftnotruf der Charité - Universitätsmedizin Berlin)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation ( <i>Skin Sens. 1A</i> )	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	Calculation method.
STOT-single exposure ( <i>STOT SE 3</i> )	H335: May cause respiratory irritation.	Calculation method.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

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### Hazard components for labelling:

glutaral; propan-2-ol

#### Hazard statements for health hazards

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### Precautionary statements

P102	Keep out of reach of children.
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#### Precautionary statements Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves and eye/face protection.

#### Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

### 2.3. Other hazards

#### Adverse physicochemical effects:

No information available.

#### Adverse human health effects and symptoms:

No information available.

#### Adverse environmental effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### Other adverse effects:

No information available.




## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Description:

The article is a mixture consisting of non-hazardous and hazardous substances.

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Concentration
CAS No.: 7784-13-6	<b>ALUMINIUMCHLORID HEXAHYDRAT</b> Eye Irrit. 2 (H319), Skin Irrit. 2 (H315)  Warning	5 - ≤ 15 weight-%
CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0	<b>propan-2-ol</b> Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336)  Danger	1 - ≤ 10 weight-%
CAS No.: 111-30-8 EC No.: 203-856-5 Index No.: 605-022-00-X	<b>glutaral</b> <i>Candidate List of Substances of Very High Concern for Authorisation!</i> Acute Tox. 2 (H330), Acute Tox. 3 (H301), Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411), Resp. Sens. 1 (H334), STOT SE 3 (H335), Skin Corr. 1B (H314), Skin Sens. 1A (H317)  Danger EUH071 M-factor (acute): 1 <b>Specific concentration limit (SCL)</b> STOT SE 3; H335: 0.5% ≤ C < 5%	> 0 - ≤ 0.9 weight-%

Full text of H- and EUH-phrases: see section 16.

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## KERALIT® STRAHL-LIQUIDE

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General information:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**Following inhalation:**

Provide fresh air.

In case of respiratory tract irritation, consult a physician.

**In case of skin contact:**

After contact with skin, wash immediately with plenty of water and soap.

In case of skin irritation, consult a physician.

**After eye contact:**

Rinse immediately carefully and thoroughly with eye-bath or water.

In case of eye irritation consult an ophthalmologist.

**Following ingestion:**

Rinse mouth thoroughly with water.

Call a physician in any case!

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

No data available

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

Zubereitung enthält Glutaraldehyd als Wirkstoff

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**

Water Carbon dioxide (CO<sub>2</sub>) Extinguishing powder ABC-powder

**Unsuitable extinguishing media:**

no restriction

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

not determined

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

**Personal precautions:**

Wear personal protection equipment.

See protective measures under point 7 and 8.

##### 6.1.2. For emergency responders

**Personal protection equipment:**

No special measures are necessary.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil.

Do not allow to enter into surface water or drains.

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

**For cleaning up:**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

Wash with plenty of water.

#### 6.4. Reference to other sections

No data available

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### 6.5. Additional information

Eliminate leaks immediately.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

If handled uncovered, arrangements with local exhaust ventilation have to be used.

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Keep out of the reach of children.

#### Fire prevent measures:

No special fire protection measures are necessary.

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

#### Requirements for storage rooms and vessels:

Keep/Store only in original container.

Keep container tightly closed.

Ensure adequate ventilation of the storage area.

#### Hints on storage assembly:

none

**Storage class (TRGS 510, Germany):** 10 - Combustible liquids that cannot be assigned to any of the above storage classes

#### Further information on storage conditions:

Store small packages in a suitable, robust cabinet.

### 7.3. Specific end use(s)

#### Recommendation:

Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE) from 7 Jun 2017	<b>glycerol</b> CAS No.: 56-81-5 EC No.: 200-289-5	① 200 mg/m <sup>3</sup> ② 400 mg/m <sup>3</sup> ⑤ (eintembare Fraktion) DFG, Y
TRGS 900 (DE)	<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm (500 mg/m <sup>3</sup> ) ② 400 ppm (1,000 mg/m <sup>3</sup> ) ⑤ DFG, Y
TRGS 900 (DE)	<b>glutaral</b> CAS No.: 111-30-8 EC No.: 203-856-5	① 0.05 ppm (0.2 mg/m <sup>3</sup> ) ② 0.1 ppm (0.4 mg/m <sup>3</sup> ) ⑤ AGS, Sah, Y

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### 8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling: ④ Remark
TRGS 903 (DE) from 1 Nov 2012	<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	25 mg/L	① Aceton ② Blut ③ Expositionsende bzw. Schichtende
TRGS 903 (DE) from 1 Nov 2012	<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	25 mg/L	① Aceton ② Urin ③ Expositionsende bzw. Schichtende

### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	500 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects

Substance name	PNEC Value	① PNEC type
<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, freshwater

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

It is recommended to design all work processes always so that the following is excluded:

Skin contact  
Eye contact  
Inhalation

### 8.2.2. Personal protection equipment

#### Eye/face protection:

Tightly sealed safety glasses. Avoid contact with eyes and skin.

#### Skin protection:

Avoid contact with eyes and skin.

Hand protection: For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough time: > 480 min

#### Respiratory protection:

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Filtertypen: A, B, E, K. Klasse 1: Höchstzulässige Schadstoffkonzentration in der Atemluft = 1000 ml/m<sup>3</sup> (0,1 Vol.-%); Klasse 2 = 5000 ml/m<sup>3</sup> (0,5 Vol.-%); Klasse 3 = 10000 ml/m<sup>3</sup> (1,0 Vol.-%).

#### Other protection measures:

Protective clothing: Apron

General health and safety measures: Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

When using do not eat, drink, smoke, sniff.

Wash hands before breaks and after work.

### 8.2.3. Environmental exposure controls

No data available

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## KERALIT® STRAHL-LIQUIDE

### SECTION 9: Physical and chemical properties

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

##### Appearance

**Physical state:** Liquid

**Colour:** clear

**Odour:** not determined

**Odour threshold:** not determined

##### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	3.3	20 °C	
Melting point	<i>not determined</i>		
Freezing point	<i>not determined</i>		
Initial boiling point and boiling range	<i>not determined</i>		② von 'ca.100' bis ''
Decomposition temperature	<i>not determined</i>		
Flash point	> 65 °C		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	<i>not determined</i>		
Upper/lower flammability or explosive limits	<i>not determined</i>		
Vapour pressure	<i>not determined</i>		① not determined
Vapour density	<i>not determined</i>		
Density	<i>not determined</i>		
Relative density	<i>not determined</i>		
Bulk density	<i>not determined</i>		
Water solubility	<i>not determined</i>		
Partition coefficient: n-octanol/water	<i>not determined</i>		① not determined
Dynamic viscosity	<i>not determined</i>		① not determined
Kinematic viscosity	<i>not determined</i>	40 °C	

#### 9.2. Other information

Entzündlichkeit (Feststoff/Gas): not determined

Selbstentzündlichkeit (Feststoff/Gas): not applicable

Oxidising properties: not applicable

Explosionsgefahr: not applicable

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

#### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Heat

#### 10.5. Incompatible materials

Alkali (lye), concentrated

Acid, concentrated

Amines

Oxidising agent, strong

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

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## KERALIT® STRAHL-LIQUIDE

### Further information

Stable under normal use conditions.

## SECTION 11: Toxicological information

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

<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7
<b>LD<sub>50</sub> oral:</b> 5,045 mg/kg (Rat) Source: RTECS
<b>LD<sub>50</sub> dermal:</b> 12,800 mg/kg (Rabbit) Source: RTECS
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 72.6 mg/L (Rat) Source: IUCLID
<b>glutaral</b> CAS No.: 111-30-8 EC No.: 203-856-5
<b>LD<sub>50</sub> oral:</b> 77 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat)
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >0.56 - 0.78 mg/L 4 h (Rat)

#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

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

#### Skin corrosion/irritation:

irritant.

#### Serious eye damage/irritation:

Causes serious eye irritation.

#### Respiratory or skin sensitisation:

sensitising.

May cause sensitization by skin contact.

#### Germ cell mutagenicity:

No experimental indications of in vitro mutagenicity exist.

#### Carcinogenicity:

No indications of human carcinogenicity exist.

#### Reproductive toxicity:

No indications of human reproductive toxicity exist.

#### STOT-single exposure:

May cause respiratory irritation.

#### 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 information:

Other information: Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL.

### 11.2. Information on other hazards

#### Endocrine disrupting properties:

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no component meets the criteria.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Aquatic toxicity:

No information available.

#### Assessment/classification:

The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No. 1272/2008 [CLP], Annex I.

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### 12.2. Persistence and degradability

#### Additional information:

Further ecological information: No information available.

### 12.3. Bioaccumulative potential

#### Accumulation / Evaluation:

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

No adsorption in soil or sediment.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no component meets the criteria.

### 12.7. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

Vorschlagsliste für Abfallschlüssel/Abfallbezeichnungen gemäß AVV:

#### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV

##### Waste code product

16 05 08 *	discarded organic chemicals consisting of or containing hazardous substances
------------	--

\*: Evidence for disposal must be provided.

##### Waste code packaging

15 01 10 *	packaging containing residues of or contaminated by dangerous substances
------------	--

\*: Evidence for disposal must be provided.

#### Waste treatment options

#### Appropriate disposal / Package:

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.2. UN proper shipping name</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.3. Transport hazard class(es)</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.4. Packing group</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.5. Environmental hazards</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.6. Special precautions for user</b>			
not relevant	not relevant	not relevant	not relevant



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### 14.7. Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

#### 15.1.2. National regulations

##### [DE] National regulations

##### Restrictions of occupation

5 MuSchRiV.

22 JArbSchG.

4 MuSchRiV.

##### Störfallverordnung (12. BImSchV)

##### for substances contained in the product:

This product is not assigned to a hazard category.

##### Water hazard class

##### WGK:

1 - slightly hazardous to water

##### Source:

S Selbsteinstufung

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

For abbreviations and acronyms, see table on the eSDScom website

-ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route)

-CAS: Chemical Abstracts Service

-CLP: Classification, labelling and Packaging

-DNEL: Derived No Effect Level

-EC<sub>50</sub>: Effective Concentration 50%

-ECHA: European Chemical Agency

-LC<sub>50</sub>: Lethal Concentration 50%

-LD<sub>50</sub>: Lethal Dose 50%

-PBT: persistent, bioaccumulative, toxic

-PNEC: Predicted No Effect Concentration

-REACH: Registration, Evaluation and Authorization of Chemicals

-SVHC: Substance of Very High Concern

-VOC: Volatile organic compounds

-vPvB: very persistent, very bioaccumulative

### 16.3. Key literature references and sources for data

REACH Dissemination Portal

<https://echa.europa.eu/de/information-on-chemicals/registered-substances>

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### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No. 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation ( <i>Skin Sens. 1A</i> )	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	Calculation method.
STOT-single exposure ( <i>STOT SE 3</i> )	H335: May cause respiratory irritation.	Calculation method.

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH071	Corrosive to the respiratory tract.

### 16.6. Training advice

No data available

### 16.7. Additional information

This Safety Data Sheet was drawn up by TÜV SÜD Industrie Service GmbH (see below), based on data from the supplier, who is named in section 1 and who is responsible for this document.

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