

# SAFETY DATA SHEET

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

Revision date: 20 Mar 2020

Print date: 24 Mar 2020

Version: 1.0

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FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



## LUMOSENS AS

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

#### 1.1. Product identifier

Trade name/designation:

LUMOSENS AS

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

Use of the substance/mixture:

Disinfectant

limited virucide (against enveloped viruses)

Relevant identified uses:

**Sector of uses [SU]**

**SU 20:** Health services

**Product Categories [PC]**

**PC 39:** Cosmetics, personal care products

**Process categories [PROC]**

**PROC 19:** Manual activities involving hand contact

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

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

**FSG Schäfer GmbH**

Boschstraße 14

48703 Stadtlohn

GERMANY

**Telephone:** +49 (0) 25 63 - 93 95 - 0

**Telefax:** +49 (0) 25 63 - 93 95 - 25

**E-mail:** verkauf@fsg-schaefer.de

**Website:** www.fsg-schaefer.de

**E-mail (competent person):** sdb@fsg-schaefer.de

only for Information: National Poisons Information Service (Birmingham Unit): 844 892 0111

#### 1.4. Emergency telephone number

24h: Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department., Office FSG: +49 (0) 2563 93950. (Only available during office hours.)

### 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
flammable liquids ( <i>Flam. Liq. 3</i> )	H226: Flammable liquid and vapour.	

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### 2.2. Label elements

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

Hazard pictograms:



**GHS02**  
Flame

Signal word: Warning

#### hazard statements for physical hazards

H226	Flammable liquid and vapour.
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Supplemental hazard information: -

#### Precautionary Statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment. (...)
P243	Take action to prevent static discharges.

#### Precautionary Statements Disposal

P501	Dispose of contents/container to Appropriate disposal.
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Special rules for supplemental label elements for certain mixtures:

64,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

2,6 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

### 2.3. Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Description:

Mixture of following listed substances with nonhazardous additions.

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64-17-5 EC No.: 200-578-6	<b>ethanol</b> Flam. Liq. 2 <b>Danger</b> H225	60 - < 80 Wt %
CAS No.: 7722-84-1 EC No.: 231-765-0	<b>hydrogen peroxide</b> Acute Tox. 4, Ox. Liq. 1, Skin Corr. 1A <b>Danger</b> H271-H302-H314-H332	1 - ≤ 3 Wt %
CAS No.: 78-93-3 EC No.: 201-159-0	<b>butanone</b> Eye Irrit. 2, Flam. Liq. 2, STOT SE 3 <b>Danger</b> H225-H319-H336-EUH066	1 - < 1.98 Wt %
CAS No.: 107-21-1 EC No.: 203-473-3 INDEX No.: 603-027-00-1	<b>Ethandiol</b> Acute Tox. 4 <b>Warning</b> H302	0 - ≤ 1 Wt %

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

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### 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). Remove victim out of the danger area. Remove contaminated, saturated clothing. Do not leave affected person unattended.

**Following inhalation:**

Provide fresh air. In case of respiratory tract irritation, consult a physician.

**In case of skin contact:**

In full contact: After contact with skin, wash immediately with plenty of water and soap.  
No concerns when using usable quantities

**After eye contact:**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion:**

Rinse mouth. Let water be drunk in little sips (dilution effect). Get medical advice/attention if you feel unwell.

#### 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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**

Water spray jet alcohol resistant foam Extinguishing powder Carbon dioxide (CO<sub>2</sub>) Fire extinguishers Fire class B

**Unsuitable extinguishing media:**

Full water jet

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

Highly flammable, Combustible

**Hazardous combustion products:**

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>), Pyrolysis products, toxic, carbon black.

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### SECTION 6: Accidental release measures

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

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

**Personal precautions:**

In full contact: Remove persons to safety.

##### 6.1.2. For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Discharge into the environment must be avoided.

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

**For containment:**

Soak up inert absorbent and dispose as waste requiring special attention.

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

**For cleaning up:**

After drying the residue is: Water (with cleaning agent)

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

In full contact Do not breathe gas/fumes/vapour/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Wear personal protection equipment (refer to section 8).

**Fire prevent measures:**

Keep away from sources of ignition - No smoking.

**Environmental precautions:**

Discharge into the environment must be avoided.

**Advices on general occupational hygiene**

After cleaning apply high-fat content skin care cream.

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

**Technical measures and storage conditions:**

Keep container tightly closed in a cool, well-ventilated place.

**Packaging materials:**

Keep/Store only in original container.

**Hints on storage assembly:**

Keep away from combustible material. Do not store together with:

Combustible substances of acute toxicity, category 1 and 2 / very toxic substances,

Non-combustible substances of acute toxicity, category 1 and 2 / very toxic substances,

Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects,

Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects.

**Storage class:** 3 - Flammable liquids

**Further information on storage conditions:**

Protect from sunlight. Store in a well-ventilated place.

### 7.3. Specific end use(s)

**Recommendation:**

Observe instructions for use. Wet hands completely with LUMOSENS before breaks and at the end of work. Also think of your wrists and the spaces between your fingers. Rub in LUMOSENS for drying. Use fatty skin care products after work.

**Industrial sector specific solutions:**

Disinfectant cleaners, other

**GISCODE:**

GD0

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### 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
IE	ethanol CAS No.: 64-17-5	② 1,000 ppm
WEL (GB)	ethanol CAS No.: 64-17-5	① 1,000 ppm (1,920 mg/m <sup>3</sup> )
IE	hydrogen peroxide CAS No.: 7722-84-1	① 1 ppm (1.5 mg/m <sup>3</sup> ) ② 2 ppm (3 mg/m <sup>3</sup> )
WEL (GB)	hydrogen peroxide CAS No.: 7722-84-1	① 1 ppm (1.4 mg/m <sup>3</sup> ) ② 2 ppm (2.8 mg/m <sup>3</sup> )
IE	butanone CAS No.: 78-93-3	① 200 ppm (600 mg/m <sup>3</sup> ) ② 300 ppm (900 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)
IOELV (EU)	butanone CAS No.: 78-93-3	① 200 ppm (600 mg/m <sup>3</sup> ) ② 300 ppm (900 mg/m <sup>3</sup> )
WEL (GB)	butanone CAS No.: 78-93-3	① 200 ppm (600 mg/m <sup>3</sup> ) ② 300 ppm (899 mg/m <sup>3</sup> )
IE	Ethandiol CAS No.: 107-21-1	① 10 mg/m <sup>3</sup> ⑤ (may be absorbed through the skin)
IE	Ethandiol CAS No.: 107-21-1	① 20 ppm (52 mg/m <sup>3</sup> ) ② 40 ppm (104 mg/m <sup>3</sup> ) ⑤ (vapour, may be absorbed through the skin)
IOELV (EU)	Ethandiol CAS No.: 107-21-1	① 20 ppm (52 mg/m <sup>3</sup> ) ② 40 ppm (104 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)
WEL (GB)	Ethandiol CAS No.: 107-21-1	① 20 ppm (52 mg/m <sup>3</sup> ) ② 40 ppm (104 mg/m <sup>3</sup> ) ⑤ (vapour, may be absorbed through the skin)
WEL (GB)	Ethandiol CAS No.: 107-21-1	① 10 mg/m <sup>3</sup> ⑤ (may be absorbed through the skin)

##### 8.1.2. Biological limit values

No data available

##### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
ethanol CAS No.: 64-17-5	950 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
ethanol CAS No.: 64-17-5	114 mg/m <sup>3</sup>	① DNEL Consumer ② inhalative, long-term, systemic
ethanol CAS No.: 64-17-5	1,900 mg/m <sup>3</sup>	① DNEL worker ② inhalative, short-term, local, (acute)

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ethanol CAS No.: 64-17-5	950 mg/m <sup>3</sup>	① DNEL Consumer ② inhalative, short-term, local, (acute)
ethanol CAS No.: 64-17-5	343 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
ethanol CAS No.: 64-17-5	206 mg/kg bw/day	① DNEL Consumer ② dermal, long-term, systemic
ethanol CAS No.: 64-17-5	87 mg/kg bw/day	① DNEL worker ② oral, long-term, systemic
ethanol CAS No.: 64-17-5	87 mg/kg bw/day	① DNEL worker ② Acute - oral, systemic effects
hydrogen peroxide CAS No.: 7722-84-1	1.4 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, local
hydrogen peroxide CAS No.: 7722-84-1	0.21 µg/l	① DNEL Consumer ② inhalative, long-term, local
hydrogen peroxide CAS No.: 7722-84-1	3 mg/m <sup>3</sup>	① DNEL worker ② inhalative, short-term, local, (acute)
hydrogen peroxide CAS No.: 7722-84-1	1.93 mg/m <sup>3</sup>	① DNEL Consumer ② inhalative, short-term, local, (acute)
butanone CAS No.: 78-93-3	600 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
butanone CAS No.: 78-93-3	106 mg/m <sup>3</sup>	① DNEL Consumer ② inhalative, long-term, systemic
butanone CAS No.: 78-93-3	1,161 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
butanone CAS No.: 78-93-3	412 mg/kg bw/day	① DNEL Consumer ② dermal, long-term, systemic
butanone CAS No.: 78-93-3	31 mg/kg bw/day	① DNEL worker ② oral, long-term, systemic
Ethandiol CAS No.: 107-21-1	35 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
Ethandiol CAS No.: 107-21-1	7 mg/m <sup>3</sup>	① DNEL Consumer ② inhalative, long-term, systemic
Ethandiol CAS No.: 107-21-1	106 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
Ethandiol CAS No.: 107-21-1	53 mg/kg bw/day	① DNEL Consumer ② dermal, long-term, systemic

Substance name	PNEC Value	① PNEC type
ethanol CAS No.: 64-17-5	0.96 mg/l	① PNEC aquatic, freshwater
ethanol CAS No.: 64-17-5	0.76 mg/l	① PNEC aquatic, marine water
ethanol CAS No.: 64-17-5	580 mg/l	① PNEC sewage treatment plant
ethanol CAS No.: 64-17-5	3.6 mg/kg	① PNEC sediment, freshwater
ethanol CAS No.: 64-17-5	0.63 mg/kg	① PNEC soil, freshwater

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Substance name	PNEC Value	① PNEC type
hydrogen peroxide CAS No.: 7722-84-1	12.6 µg/l	① PNEC aquatic, freshwater
hydrogen peroxide CAS No.: 7722-84-1	12.6 µg/l	① PNEC aquatic, marine water
hydrogen peroxide CAS No.: 7722-84-1	4.66 mg/l	① PNEC sewage treatment plant
hydrogen peroxide CAS No.: 7722-84-1	0.047 mg/kg	① PNEC sediment, freshwater
hydrogen peroxide CAS No.: 7722-84-1	0.047 mg/kg	① PNEC sediment, marine water
hydrogen peroxide CAS No.: 7722-84-1	0.0023 mg/kg	① PNEC soil
hydrogen peroxide CAS No.: 7722-84-1	13.8 µg/l	① PNEC aquatic, intermittent release
butanone CAS No.: 78-93-3	55.8 mg/l	① PNEC aquatic, freshwater
butanone CAS No.: 78-93-3	55.8 mg/l	① PNEC aquatic, marine water
butanone CAS No.: 78-93-3	709 mg/l	① PNEC sewage treatment plant
butanone CAS No.: 78-93-3	284.74 mg/kg	① PNEC sediment, freshwater
butanone CAS No.: 78-93-3	284.7 mg/kg	① PNEC sediment, marine water
butanone CAS No.: 78-93-3	1 g/kg	① PNEC secondary poisoning
butanone CAS No.: 78-93-3	55.8 mg/l	① PNEC aquatic, intermittent release
butanone CAS No.: 78-93-3	22.5 mg/kg	① PNEC soil, freshwater

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

In full contact Eye glasses with side protection DIN EN 166

##### Skin protection:

In full contact: Suitable material: Butyl caoutchouc (butyl rubber), >0,7 mm. Breakthrough time (maximum wearing time) >480min.

The following gloves may be used: Ultranitril 492, MAPA Professionnel & Nitril/Neopren Microflex 93-260 (EN374(JKL), EN388 (2000); Kat.III; AQL 0,65).

Tested protective gloves must be worn EN ISO 374.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Breakthrough times and swelling properties of the material must be taken into consideration.

No special measures are necessary. No concerns when using usable quantities

##### Thermal hazards:

Risk of explosion if heated under confinement.

#### 8.2.3. Environmental exposure controls

No data available

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## LUMOSENS AS

### SECTION 9: Physical and chemical properties

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

##### Appearance

**Physical state:** Liquid

**Colour:** colourless

**Odour:** Ethanol

##### Safety relevant basis data

parameter		at °C	Method	Remark
pH	7	20 °C		
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	28 °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>			
Vapour density	<i>not determined</i>			
Density	1.18 g/cm <sup>3</sup>	20 °C		
Bulk density	<i>not determined</i>			
Water solubility	miscible			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

#### 9.2. Other information

No data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Combustible substance, Flammable liquid and vapour.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions/Exothermic reaction with: Acid, Light metals, (Formation of: Hydrogen),

#### 10.4. Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### 10.5. Incompatible materials

No data available

#### 10.6. Hazardous decomposition products

In case of warming: Flammable solvent vapor mixtures are possible.



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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
7722-84-1	hydrogen peroxide	<b>LD<sub>50</sub> oral:</b> 693.7 - 1,270 mg/kg (Rat) ECHA <b>LD<sub>50</sub> dermal:</b> 2,000 mg/kg (Rabbit) ECHA
78-93-3	butanone	<b>LD<sub>50</sub> oral:</b> 2,740 mg/kg (Rat) Toxicology and Applied Pharmacology. Vol. 19, Pg. 699, 1971. <b>LD<sub>50</sub> dermal:</b> 6,480 mg/kg (Rabbit) Shell Chemical Company. Vol. MSDS-5390-4,
107-21-1	Ethandiol	<b>LD<sub>50</sub> oral:</b> >300 - ≤2,000 mg/kg (Ratte) Gigiena Truda i Professional'nye Zabolevaniya. Labor Hygiene and Occupational Diseases. Vol. 26(6), Pg. 28, 1982 <b>LD<sub>50</sub> dermal:</b> >5,000 mg/kg (Kaninchen) Toxicology of Drugs and Chemicals, Deichmann, W.B., New York, Academic Press, Inc., 1969Vol. -, Pg. 731, 1969

**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:**

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

**Serious eye damage/irritation:**

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

**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.

**STOT-single exposure:**

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

**STOT-repeated exposure:**

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

**Aspiration hazard:**

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

**Additional information:**

No data available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

CAS No.	Substance name	Toxicological information
7722-84-1	hydrogen peroxide	<b>LC<sub>50</sub></b> : 16.4 mg/l 4 d (fish) ECHA <b>NOEC</b> : 5 mg/l 4 d (fish) ECHA <b>LC<sub>50</sub></b> : 2.4 mg/l 2 d (crustaceans) ECHA <b>NOEC</b> : 0.63 mg/l 21 d (crustaceans) ECHA <b>NOEC</b> : 1 mg/l 2 d (crustaceans) ECHA <b>EC<sub>50</sub></b> : 1.38 mg/l 3 d (Algae/water plant) ECHA
78-93-3	butanone	<b>LC<sub>50</sub></b> : 3,220 – 3,220 mg/l 4 d (fish, Pimephales promelas) Brooke, L.T., D.J. Call, D.L. Geiger, and C.E. Northcott 1984. Acute Toxicities of Organic Chemicals to Fathead Minnows (Pimephales promelas), Vol. 1. Center for Lake Superior Environmental Stud., Univ. of Wisconsin-Superior, Superior, WI :414 <b>EC<sub>50</sub></b> : 5,090 – 5,090 mg/l 2 d (crustaceans) Randall, T.L., and P.V. Knopp 1980. Detoxification of Specific Organic Substances by Wet Oxidation. J. Water Pollut. Control Fed. 52(8):2117-2130 <b>NOEC</b> : 68 mg/l 2 d (crustaceans) ECHA <b>EC<sub>50</sub></b> : 2,029 mg/l 4 d (Algae/water plant) ECHA
107-21-1	Ethandiol	<b>LC<sub>50</sub></b> : 8,050 – 72,900 mg/l 4 d (fish, Ceriodaphnia dubia affinis) Mayes, M.A., H.C. Alexander, and D.C. Dill 1983. A Study to Assess the Influence of Age on the Response of Fathead Minnows in Static Acute Toxicity Tests. Bull. Environ. Contam. Toxicol. 31(2):139-147; Greene, M.W., and R.M. Kocan 1997. Toxicological Mechanisms of a Multicomponent Agricultural Seed Protectant in the Rainbow Trout (Oncorhynchus mykiss) and Fathead Minnow (Pimephales promelas). Can. J. Fish. Aquat. Sci. 54:1387-1390 <b>LC<sub>50</sub></b> : 6,900 – 1,000,000 mg/l 2 d (crustaceans, Daphnia magna) Gersich, F.M., F.A. Blanchard, S.L. Applegath, and C.N. Park 1986. The Precision of Daphnid (Daphnia magna Straus, 1820) Static Acute Toxicity Tests. Arch. Environ. Contam. Toxicol. 15(6):741-749; Cowgill, U.M., I.T. Takahashi, and S.L. Applegath 1985. A Comparison of the Effect of Four Benchmark Chemicals on Daphnia magna and Ceriodaphnia dubia affinis Tested at Two Different Temperatures. Environ. Toxicol. Chem. 4(3):415-422 (Author Communication Used)

#### 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
7722-84-1	hydrogen peroxide	Yes, rapidly	
78-93-3	butanone	Yes, rapidly	
107-21-1	Ethandiol	Yes, rapidly	

#### Biodegradation:

The organic part of the product is biodegradable.

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### 12.3. Bioaccumulative potential

CAS No.	Substance name	Log K <sub>OW</sub>	Bioconcentration factor (BCF)
7722-84-1	hydrogen peroxide	1.57	
78-93-3	butanone	0.29	
107-21-1	Ethandiol	-1.36	

#### Accumulation / Evaluation:

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
7722-84-1	hydrogen peroxide	—
78-93-3	butanone	—
107-21-1	Ethandiol	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

#### Waste code product:

07 06 99	Wastes not otherwise specified
14 06 03 *	other solvents and solvent mixtures

\*: Evidence for disposal must be provided.

#### Waste code packaging:

15 01 04	Metallic packaging
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### Waste treatment options

#### Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

#### Appropriate disposal / Package:

Completely emptied packages can be recycled.

#### Other disposal recommendations:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Collect in closed and suitable containers for disposal.

### 13.2. Additional information

Return to Distributor..

## 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-No.</b>			
UN 1987	UN 1987	UN 1987	UN 1987
<b>14.2. UN proper shipping name</b>			
ALCOHOLS, N.O.S. (ethanol Mixtures )	ALCOHOLS, N.O.S. (Ethanol Mixtures )	ALCOHOLS, N.O.S. (Ethanol Mixtures )	ALCOHOLS, N.O.S. (Ethanol Mixtures )

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## LUMOSENS AS

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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### 14.3. Transport hazard class(es)

 3	 3	 3	 3
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### 14.4. Packing group

II	II	II	II
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### 14.5. Environmental hazards

No	No	No	No
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### 14.6. Special precautions for user

<b>Special provisions:</b> 640C <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> <b>Hazard identification number (Kemler No.):</b> 33 <b>Classification code:</b> F1 <b>tunnel restriction code:</b> (D/E) <b>Remark:</b> -	<b>Special provisions:</b> 640C <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> <b>Classification code:</b> F1 <b>Remark:</b> -	<b>Special provisions:</b> 640C <b>Limited quantity (LQ):</b> 1L <b>Excepted Quantities (EQ):</b> <b>EmS-No.:</b> <b>Remark:</b>	<b>Special provisions:</b> 640C <b>Limited quantity (LQ):</b> 1L <b>Excepted Quantities (EQ):</b> <b>Remark:</b>
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**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
not determined.

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Restrictions on use:

In full contact: Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented.

##### Other regulations (EU):

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/L): ISO 11890-2: 770

VOC-value (in g/L): ASTM D 2369: 770

#### 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

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

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## LUMOSENS AS

### SECTION 16: Other information

#### 16.1. Indication of changes

Ersterstellung

#### 16.2. Abbreviations and acronyms

For abbreviations and acronyms, see ECHA: Guidance on information requirements and chemical safety assessment, Chapter R.20 (list of terms and abbreviations).

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

No data available

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

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids ( <i>Flam. Liq. 3</i> )	H226: Flammable liquid and vapour.	

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

Hazard statements	
H225	Highly flammable liquid and vapour.
H271	May cause fire or explosion; strong oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.

#### Supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.
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#### 16.6. Training advice

No data available

#### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.