

# Safety Data Sheet

## LIV DES GEL 85

Issued: 03/03/2020

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

#### 1.1. Product identifier

Trade name: LIV DES GEL 85

#### Vendor article no

Vendor article no	Description
17159100DK	
17159150	
17159600	
1715dp01	

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

Recommended uses: Hand disinfectant with oil-restoring effect. Ready to use (liquid).

Inadvisable uses: All other use is forbidden.

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

##### Supplier

Company: Clemondo AB

Address: Box 13073

Zip code: 250 13

City: Helsingborg

Country: SWEDEN

E-mail: info@clemondo.se

Phone: +46 42 25 67 00

Fax: +46 42 25 67 50

Homepage: www.clemondo.se

Contact person: Name: Johanna Karlsson, Phone: 042-256700, E-mail: johanna.karlsson@clemondo.se

#### 1.4. Emergency Telephone Number

112 (SOS in Europe) (0-24) Members of the public: 111 (NHS 111 (Scotland: NHS 24))

### SECTION 2: Hazards identification

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

CLP-classification: Flam. Liq. 2;H225 Eye Irrit. 2;H319

Most serious harmful effects: Highly flammable liquid and vapour. Causes serious eye irritation.

#### 2.2. Label elements

##### Pictograms



Signal word: Danger

Contains

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**Substance:** Ethanol; Isopropanol

### H-phrases

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

### Supplemental information

P-phrases:

P102 Keep out of reach of children. P233 Keep container tightly closed. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P370/P378 In case of fire: Use foam or powder agent or water spray to extinguish. P501 Dispose of contents/container at approved collection point for hazardous waste in accordance with local and national regulations. P501 Empty (dry) and rinsed containers are sorted as plastic packaging.

First-aid instructions.

P305+P351+ IF IN EYES: Rinse cautiously with (lukewarm) water for several minutes. Do not rub your eyes. P301+ IF SWALLOWED: Rinse your mouth and drink a couple glasses of water (only if the person is conscious). P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

### 2.3. Other hazards

The product does not contain any PBT or vPvB substances.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Substance	CAS No	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
Ethanol	64-17-5	200-578-6	01-2119457610-43	60 - 80%		Flam. Liq. 2;H225 Eye Irrit. 2;H319
Isopropanol	67-63-0	200-661-7	01-2119457558-25	5 - 10%		Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336

Please see section 16 for the full text of H-phrases.

**Ingredient comments:** Active substance: Ethanol (736 g/ kg), Isopropanol (74 g/ kg).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:** Fresh air. Get medical attention if any discomfort continues.  
**Ingestion:** Rinse the mouth with water. Drink a few glasses of water. Do not induce vomiting. Contact physician if larger quantity has been consumed.  
**Eye contact:** Hold eyelids apart. Rinse thoroughly with water until the irritation subsides. Get medical attention if any discomfort continues.  
**General:** When obtaining medical advice, show the safety data sheet or label.

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

Splashing into eyes may cause smarting/irritation.

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

No information available

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:** Extinguishing agent: powder, foam or water mist.

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**Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.

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

The product may ignite when heated to temperatures at or above the flash point. Vapours may give explosive mixture with air at temperatures below normal room temperature.  
Carbon oxides are emitted in a fire.

### 5.3. Advice for fire-fighters

General: Evacuate all personnel, use protective equipment for fire fighting. Use a portable breathing apparatus when the product is involved in a fire.

**Other Information:** Containers close to fire should be removed immediately or cooled with water.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel:** Wear necessary protective equipment. See section 8.

### 6.2. Environmental precautions

Prevent discharges into the sewage system, watercourses or ground. Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.

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

Absorb in an inert material (sand, vermiculite, etc.) and collect into a suitable container. Minor spillage should be wiped away or flushed away with water.

### 6.4. Reference to other sections

See section 13 for instructions on disposal.

**Other Information:** Observe the risk of ignition. Keep away from ignition sources and ventilate the area.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Do not eat, drink or smoke when using this product.  
Avoid sources of sparking (smoking, fire, static electricity). Avoid contact with eyes.

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

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Keep in tightly closed original packaging. Store at temperature not greater than 30 °C.

### 7.3. Specific end use(s)

No known information.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit

Substance name	Time period	ppm	mg/m3	fiber/cm3	Comments	Remarks
Ethanol	8h	500	1000			
Ethanol	15m	1000	1900			
Isopropanol	15m	250	600			

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Isopropanol	8h	150	350			
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**Legal basis:** #Not translated#

### PNEC

Ethanol, cas-no 64-17-5				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	0,96 mg/l			
PNEC aqua (marine water)	0,79 mg/l			
PNEC aqua (intermittent releases)	2,75 mg/l			
PNEC STP (wastewater-treatment facilities)	580 mg/l			
PNEC sediment (freshwater)	3,6 mg/kg			
PNEC soil	0,63 mg/kg			
PNEC sediment (marine water)	2,9 mg/kg			
Isopropanol, cas-no 67-63-0				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	140,9 mg/l			
PNEC aqua (marine water)	140,9 mg/l			
PNEC aqua (intermittent releases)	140,9 mg/l			
PNEC STP (wastewater-treatment facilities)	2251 mg/l			
PNEC sediment	552 mg/l			
PNEC soil	28 mg/l			

### DNEL - workers

Ethanol, cas-no 64-17-5					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	950 mg/m <sup>3</sup>				
Dermal DNEL (long-term exposure - systemic effects)	343 mg/kg and day				
Isopropanol, cas-no 67-63-0					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	888 mg/kg and day				
Inhalation DNEL (long-term exposure - systemic effects)	500 mg/m <sup>3</sup>				

### DNEL - general population

Ethanol, cas-no 64-17-5					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note

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Inhalation DNEL (long-term exposure - systemic effects)	114 mg/m <sup>3</sup>				
Oral DNEL (long-term exposure - systemic effects)	87 mg/kg				
Dermal DNEL (long-term exposure - systemic effects)	206 mg/kg and day				
Isopropanol, cas-no 67-63-0					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	319 mg/kg and day				
Inhalation DNEL (long-term exposure - systemic effects)	89 mg/m <sup>3</sup>				
Oral DNEL (long-term exposure - systemic effects)	26 mg/kg and day				

### 8.2. Exposure controls

**Appropriate engineering controls:** Provide sufficient ventilation during operations which cause vapour formation.

## SECTION 9: Physical and chemical properties

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

Parameter	Value/unit
State	Viscous liquid.
Colour	Colourless Clear
Odour	Weak odour of alcohol.
Solubility	Solubility in water: Highly soluble
Explosive properties	No data
Oxidising properties	No data

Parameter	Value/unit	Remarks
pH (solution for use)	No data	
pH (concentrate)	~ 7	
Melting point	~ -45 °C	
Freezing point	No data	
Initial boiling point and boiling range	~ 80 °C	
Flash Point	~ 17 °C	ISO 3679.
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	2 - 15 vol%	
Vapour pressure	No data	
Vapour density	No data	
Relative density	No data	
Partition coefficient n-octanol/water	No data	
Auto-ignition temperature	> 150 °C	
Decomposition temperature	No data	
Viscosity	~ 30000 cSt	

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Odour threshold	No data	
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### 9.2 Other information

Parameter	Value/unit	Remarks
Density	~ 0.84 g/cm <sup>3</sup>	20°C

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable at normal conditions.

### 10.2. Chemical stability

Stable under recommended storage and handling conditions.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Avoid temperatures above 30°C. Avoid heating and contact with ignition sources.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed:  
Carbon monoxide and carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

##### Ethanol, cas-no 64-17-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		10470mg/kg		OECD 401	

##### Isopropanol, cas-no 67-63-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		5840mg/kg		OECD 401	

#### Acute toxicity - dermal

##### Ethanol, cas-no 64-17-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 2000mg/kg		OECD 402	

##### Isopropanol, cas-no 67-63-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		13900mg/kg		OECD 402	

#### Acute toxicity - inhalation

##### Ethanol, cas-no 64-17-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	4h	117 - 125mg/l		OECD 403	

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### Isopropanol, cas-no 67-63-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (vapour)	6h	> 25mg/l		OECD 403	

**Skin corrosion/irritation:** Based on existing data, the classification criteria are deemed not to have been met.

**Serious eye damage/eye irritation:** May cause eye irritation.

**Respiratory sensitisation or skin sensitisation:** Based on existing data, the classification criteria are deemed not to have been met.

**Germ cell mutagenicity:** Based on existing data, the classification criteria are deemed not to have been met.

**Carcinogenic properties:** Based on existing data, the classification criteria are deemed not to have been met.

**Reproductive toxicity:** Based on existing data, the classification criteria are deemed not to have been met.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ethanol, cas-no 64-17-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish	Oncorhynchus mykiss	96h	LC50	13000mg/l			
Acute Daphnia	Daphnia magna	48h	LC50	12900mg/l			
Acute algae	Chlorella vulgaris	72h	EC50	275mg/l			

#### Isopropanol, cas-no 67-63-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish		96h	LC50	> 1000mg/l			
Acute algae		72h	EC50	> 1000mg/l			
Acute Daphnia		48h	EC50	> 1000mg/l			

No negative effects on the aquatic environment are known.

### 12.2. Persistence and degradability

#### Ethanol, cas-no 64-17-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
				97%		OECD 301 B	

#### Isopropanol, cas-no 67-63-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		21d		> 95%		BOD20/ThOD	

Expected to be readily biodegradable.

### 12.3. Bioaccumulative potential

#### Ethanol, cas-no 64-17-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	-0.32			

#### Isopropanol, cas-no 67-63-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	< 3			

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Bioaccumulation improbable.

### 12.4. Mobility in soil

No information available

### 12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

#### Other Information

Not regarded as dangerous for the environment. The assessment is based on the properties of the components.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Residues and used product that cannot be reused must be treated as dangerous waste. Empty, cleansed packaging should be disposed of for recycling. Local and EU regulations for refuse treatment must be followed.

**Category of waste:** EWC code: Depends on line of business and use. Proposal EWC-code: 07 06 04. Suitable classification of waste is the responsibility of the user.

## SECTION 14: Transport information

### Land transport (ADR/RID)

14.1. UN-No.:	1987	14.4. Packing group:	II
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (Ethanol)	14.5. Environmental hazards:	
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		
Hazard identification number:	33	Tunnel restriction code:	D/E

### Inland water ways transport (ADN)

14.1. UN-No.:	1987	14.4. Packing group:	II
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (Ethanol)	14.5. Environmental hazards:	
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		
Transport in tank vessels:			

### Sea transport (IMDG)

14.1. UN-No.:	1987	14.4. Packing group:	II
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (Ethanol)	14.5. Environmental hazards:	
14.3. Transport hazard class(es):	3	Environmental Hazardous Substance Name(s):	
Hazard label(s):	3		
EmS:	F-E, S-D	IMDG Code segregation group:	- None -

### Air transport (ICAO-TI / IATA-DGR)

14.1. UN-No.:	1987	14.4. Packing group:	II
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (Ethanol)	14.5. Environmental hazards:	



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**14.3. Transport hazard class(es):** 3

**Hazard label(s):** 3

### 14.6. Special precautions for user

No special precautions required.

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

Not relevant.

## SECTION 15: Regulatory information

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

**Special Provisions:** EH40/2005 Workplace exposure limits. Last amended December 2018.  
Directive 98/8/EC concerning the placing of biocidal products on the market.  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.  
DIRECTIVE 2008/98/EC on waste.

### 15.2. Chemical Safety Assessment

**Other Information:** Chemical safety assessment has not been performed.

## SECTION 16: Other information

**Classification method:** Calculation based on the hazards of the known components.

### List of relevant H-statements

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

**Document language:** GB