

* Lizerna Intensive

Date revised: 06.02.2025

8770031511

Version: 16 / GB

Master No. MA-211

Print date: 08.05.2025

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

1.1. Product identifier

Trade name

Lizerna Intensive

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

Use of the substance/mixture

Detergents

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

BÜFA Cleaning GmbH & Co. KG

August-Hanken-Str. 30

26125 Oldenburg

Telephone no. +49 441 9317 0

Fax no. +49 441 9317 100

Information provided Department product safety / +49 441 9317 108

by / telephone

E-Mail sds-cleaning@buefa.de

1.4. Emergency telephone number

Poison Information Center Goettingen: +49 551 19240

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

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

Acute Tox. 4 H302

Eye Dam. 1 H318

Skin Sens. 1B H317

Aquatic Chronic 3 H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008**Hazard pictograms *******Signal word**

Danger

Hazard statements ***

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements ***

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P273 Avoid release to the environment.

* Lizerna Intensive

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P280.2 Wear protective gloves/ eye/ face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor.
 P330 Rinse mouth.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains *** Fatty acids, ethoxylated; Isotridecanol, ethoxylated (2-5 EO); benzyl alcohol

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****3.2. Mixtures****Hazardous ingredients *******Isotridecanol, ethoxylated (2-5 EO)**

CAS No. 69011-36-5
 EINECS no. 500-241-6
 Concentration \geq 25 < 50 %
 Eye Dam. 1 H318
 Aquatic Chronic 3 H412
 Acute Tox. 4 H302
 cATpE oral 500 mg/kg

isotridecanol,ethoxylated (\geq 2.5 EO)

CAS No. 69011-36-5
 EINECS no. 931-138-8
 Registration no. 01-2119976362-32-XXXX
 Concentration \geq 10 < 25 %
 Eye Irrit. 2 H319
 Aquatic Chronic 3 H412

benzyl alcohol

CAS No. 100-51-6
 EINECS no. 202-859-9
 Registration no. 01-2119492630-38-XXXX
 Concentration \geq 1 < 10 %
 Acute Tox. 4 H302
 Eye Irrit. 2 H319
 Skin Sens. 1B H317
 Acute Tox. 4 H332

ATE oral 1.200 mg/kg
 ATE inhalative, Dust/Mist 1,5 mg/l
 cATpE inhalative, Vapors 11 mg/l

Fatty acids, ethoxylated

CAS No. 157627-86-6
 Concentration \geq 3 < 10 %
 Acute Tox. 4 H302
 Eye Dam. 1 H318
 Aquatic Chronic 3 H412
 ATE oral 1.000 mg/kg

* Lizerna Intensive

Date revised: 06.02.2025

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Version: 16 / GB

Master No. MA-211

Print date: 08.05.2025

Further ingredients**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

CAS No.	34590-94-8	EINECS no.	252-104-2
Registration no.	01-2119450011-60-XXXX		
Concentration	>= 10 <	25 %	[3]

Glycerol

CAS No.	56-81-5	EINECS no.	200-289-5
Registration no.	01-2119471987-18-XXXX		
Concentration	>= 1 <	10 %	[3]

Note

[3] Substance with occupational exposure limits
For explanation of abbreviations see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water.

After eye contact

In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution.
Seek medical advice immediately.

After ingestion

Rinse out mouth and give plenty of water to drink. Seek medical advice immediately.

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

There is no further relevant information available

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

There is no further relevant information available

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Dry powder, Water spray jet

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

If a fire breaks out nearby, pressure build-up and danger of bursting are possible. Carbon monoxide (CO); Carbon dioxide (CO₂)

5.3. Advice for firefighters

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

High risk of slipping due to leakage/spillage of product. Use personal protective clothing.

6.2. Environmental precautions

* Lizerna Intensive

Date revised: 06.02.2025

8770031511

Version: 16 / GB

Master No. MA-211

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Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Observe the usual precautions for handling chemicals.

7.2. Conditions for safe storage, including any incompatibilities

Emptied containers may contain product residues and therefore must be handled with care. Reuse only after appropriate cleaning. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3. Specific end use(s)

No information available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values****(2-Methoxymethylethoxy)-propanol (mixed isomers)**

List EH40

Type WEL

Value 308 mg/m³ 50 ppm(V)

Maximum limit value; Skin resorption / sensibilisation: Sk; Pregnancy group; Status; Remarks: Sk

(2-Methoxymethylethoxy)-propanol (mixed isomers)

List IOELV

Type IOELV

Value 308 mg/m³ 50 ppm(V)

Maximum limit value; Skin resorption / sensibilisation: Sk; Pregnancy group; Status; Remarks: Skin

Glycerol

List EH40

Type WEL

Value 10 mg/m³**8.2. Exposure controls****General protective and hygiene measures**

Observe the usual precautions for handling chemicals. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards. The following information on personal protective equipment (PPE) is to be understood as a suggestion. The selection of the necessary PPE must be considered by the employer depending on the activities to be carried out and the local conditions. If it is determined during the on-site risk assessment that there is no danger to the employee, there is no need to wear PPE or the scope of the PPE to be used can be adjusted accordingly.

Respiratory protection

Not necessary.

Hand protection

Chemical resistant gloves

Appropriate Material nitrile

Material thickness \geq 0,6 mmBreakthrough time $>$ 480 min

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

* Lizerna Intensive

Date revised: 06.02.2025

8770031511

Version: 16 / GB

Master No. MA-211

Print date: 08.05.2025

Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

Eye protection

Tightly fitting safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	Product specific
Melting point	
Remarks	not determined
Boiling point	
Remarks	not determined
Flammability	
evaluation	not determined
Explosion limits	
Remarks	not determined
Flash point	
Value	> 100 °C
Ignition temperature	
Remarks	not determined
Thermal decomposition	
Remarks	Not relevant
pH value	
Value	5,4 to 5,8
Viscosity	
Value	appr. 16 s
Method	DIN 53211 4 mm
Solubility in other solvents	
	not determined
Octanol/water partition coefficient (log Pow)	
Remarks	Not relevant
Vapour pressure	
Remarks	not determined
Density	
Value	appr. 1,00 kg/l
Vapour density	
Remarks	not determined
Particle characteristics	
Remarks	irrelevant (liquid)
9.2. Other information	
Odour threshold	
Remarks	No data available

* Lizerna Intensive

Date revised: 06.02.2025

8770031511

Version: 16 / GB

Master No. MA-211

Print date: 08.05.2025

Solubility in water

Remarks

miscible

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

Thermal decomposition

Remarks

Not relevant

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE

1.212

mg/kg

Method

calculated value (Regulation (EC) No. 1272/2008)

The classification criteria are met.

Acute oral toxicity (Components)**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species

rat

LD50

5135

mg/kg

Glycerol

Species

rat

LD50

12600

mg/kg

Fatty acids, ethoxylated

ATE

1000

mg/kg

Source

Estimated value

benzyl alcohol

ATE

1200

mg/kg

Acute dermal toxicity

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

Acute dermal toxicity (Components)**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species

rabbit

LD50

9510

mg/kg

Glycerol

Species

rabbit

LD50

>

18700

mg/kg

Acute inhalational toxicity

ATE

16,67

mg/l

* Lizerna Intensive

Date revised: 06.02.2025

8770031511

Version: 16 / GB

Master No. MA-211

Print date: 08.05.2025

Administration/Form	Dust/Mist
Method	calculated value (Regulation (EC) No. 1272/2008)
ATE	> 100 mg/l
Administration/Form	Vapors
Method	calculated value (Regulation (EC) No. 1272/2008)

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

Acute inhalative toxicity (Components)**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species	rat
LC50	60 mg/l
Duration of exposure	4 h

benzyl alcohol

ATE	1,5 mg/l
Administration/Form	Dust/Mist

Skin corrosion/irritation

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

Serious eye damage/irritation

evaluation corrosive
The classification criteria are met.

Sensitization

evaluation May cause sensitization by skin contact.
The classification criteria are met.

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)**Single exposure**

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

Repeated exposure

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

Aspiration hazard

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

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity****(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species	guppy (Poecilia reticulata)
LC50	> 1000 mg/l
Duration of exposure	96 h
Method	OECD 203

Glycerol

Species	golden orfe (Leuciscus idus)
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* Lizerna Intensive

Date revised: 06.02.2025

8770031511

Version: 16 / GB

Master No. MA-211

Print date: 08.05.2025

LC50 > 10000 mg/l

benzyl alcohol

Reference substance benzyl alcohol
 Species Fathead minnow (*Pimephales promelas*)
 LC50 460 mg/l
 Duration of exposure 96 h

Daphnia toxicity**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species *Daphnia magna*
 LC50 1919 mg/l
 Duration of exposure 48 h
 Species *Daphnia magna*
 NOEC > 0,5 mg/l
 Duration of exposure 22 d

Glycerol

Species *Daphnia magna*
 EC50 > 10000 mg/l
 Duration of exposure 24 h

benzyl alcohol

Reference substance benzyl alcohol
 Species *Daphnia magna*
 LC50 230 mg/l
 Duration of exposure 48 h
 Method OECD 202

Algae toxicity**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species *Skeletonema costatum*
 EC50 6999 mg/l
 Duration of exposure 72 h

Glycerol

Species *Microcystis aeruginosa* (blue alge)
 EC50 > 2900 mg/l
 Duration of exposure 48 h

benzyl alcohol

Reference substance benzyl alcohol
 Species *Scenedesmus quadricauda*
 EC50 640 mg/l
 Duration of exposure 96 h

Bacteria toxicity**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species *Pseudomonas putida*
 EC10 4168 mg/l
 Duration of exposure 18 h

Glycerol

Species *Pseudomonas putida*
 EC50 > 10000 mg/l
 Duration of exposure 72 h

benzyl alcohol

Reference substance benzyl alcohol
 Species activated sludge
 IC50 2100 mg/l
 Duration of exposure 49 h

12.2. Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid

* Lizerna Intensive

Date revised: 06.02.2025

8770031511

Version: 16 / GB

Master No. MA-211

Print date: 08.05.2025

down in Regulation (EC) No.648/2004 on detergents.

Biodegradability**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Value	75	%
Duration of test evaluation	28 d	
Method	Readily biodegradable (according to OECD criteria) OECD 301 F	

Glycerol

evaluation biodegradable

benzyl alcohol

Reference substance	benzyl alcohol		
Value	92	to	96 %
Duration of test evaluation	14 d		
Method	readily degradable OECD 301 C		

12.3. Bioaccumulative potential

For this subsection there is no ecotoxicological data available on the product as such.

Octanol/water partition coefficient (log Pow)

Remarks Not relevant

12.4. Mobility in soil

For this subsection there is no ecotoxicological data available on the product as such.

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

The product contains no PBT substances. The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

For this subsection there is no ecotoxicological data available on the product as such.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

* Lizerna Intensive

Date revised: 06.02.2025

8770031511

Version: 16 / GB

Master No. MA-211

Print date: 08.05.2025

	Land transport ADR/RID	Marine transport IMDG/GGVSee
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.
14.2. UN proper shipping name	-	-
14.3. Transport hazard class(es)	-	-
14.4. Packing group	-	-
Label		
14.5. Environmental hazards	-	

Information for all modes of transport**14.6. Special precautions for user**

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

SECTION 15: Regulatory information *****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Ingredients (Regulation (EC) No 648/2004)****30 % and more:**

non-ionic surfactants

Further ingredients ***

benzyl alcohol

VOC

VOC (EU) 14,6 %

Other information

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

Other information

The HSNO Approval Number for this Group Standard is HSR002530.

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Acute Tox. 4	H302	Calculation method
Eye Dam. 1	H318	Calculation method

* Lizerna Intensive

Date revised: 06.02.2025

8770031511

Version: 16 / GB

Master No. MA-211

Print date: 08.05.2025

Skin Sens. 1B	H317	Calculation method
Aquatic Chronic 3	H412	Calculation method

Hazard statements listed in Chapter 2/3

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Sens. 1B	Skin sensitization, Category 1B

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
 GGVSee: Gefahrgutverordnung See
 IMDG: International Maritime Code for Dangerous Goods
 CAS: Chemical Abstracts Service
 EAK: Europäischer Abfallkatalog
 EINECS: European Inventory of Existing Commercial Chemical Substances
 VOC: Volatile Organic Compound
 GefStoffV: Gefahrstoffverordnung
 TA Luft: Technische Anleitung zur Reinhaltung der Luft
 INCI: International Nomenclature of Cosmetic Ingredients
 n.a.g.: nicht anders genannt
 MAK: Maximale Arbeitsplatz-Konzentration
 AGW: Arbeitsplatzgrenzwert
 BGW: Biologischer Grenzwert
 TRGS: Technische Regeln für Gefahrstoffe
 OEL: Occupational exposure limit
 SUVA: Schweizerische Unfallversicherungsanstalt
 WEL: Workplace exposure limit
 MAC: Maximale aanvaarde concentratie (Netherlands)
 MEL: Maximum exposure limits
 NOEL: No observable effect level
 NOEC: No observable effect concentration
 LD: Lethal dose
 LC: Lethal concentration
 LLC: Lowest lethal concentration
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: Very persistent and very bioaccumulative
 SVHC: Substances of very high concern
 DNEL: Derived no effect level
 DMEL: Derived minimal effect level
 PNEC: Predicted no effect concentration
 PEC: Predicted environmental concentration
 GHS: Globally Harmonized System of classification and Labelling of Chemicals
 REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals
 UN: United Nations
 EG: Europäische Gemeinschaft
 EWG: Europäische Wirtschaftsgemeinschaft
 EU: European Union
 HSNO: Hazardous Substances and New Organisms Act (New Zealand)
 ATE: Acute Toxicity Estimate

* **Lizerna Intensive**

Date revised: 06.02.2025

8770031511

Version: 16 / GB

Master No. MA-211

Print date: 08.05.2025

STOT: Specific Target Organ Toxicity

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.