

* Lizerna Intensive

Date revised: 13.09.2023

8770031511

Version: 15 / GB

Master No. MA-211

Print date: 17.04.2024

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

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.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements ***

P273 Avoid release to the environment.

P280.6 Wear eye/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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P310
P330lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor.
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	>=	25	<	50	%
Eye Dam. 1	H318				
Aquatic Chronic 3	H412				
Acute Tox. 4	H302				

cATpE	oral		500		mg/kg
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isotridecanol,ethoxylated (>=2.5 EO)

CAS No.	69011-36-5				
EINECS no.	931-138-8				
Registration no.	01-2119976362-32-XXXX				
Concentration	>=	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	>=	1	<	10	%
Acute Tox. 4	H302				
Acute Tox. 4	H332				
Eye Irrit. 2	H319				

ATE	oral		1.620		mg/kg
cATpE	inhalative, Dust/Mist		1,5		mg/l
cATpE	inhalative, Vapors		11		mg/l

Fatty acids, ethoxylated

CAS No.	157627-86-6				
Concentration	>=	3	<	10	%
Acute Tox. 4	H302				
Eye Dam. 1	H318				
Aquatic Chronic 3	H412				

ATE	oral		1.000		mg/kg
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Further ingredients**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

CAS No.	34590-94-8	EINECS no.	252-104-2
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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

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.

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

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.

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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 >= 0,6 mm

Breakthrough time > 480 min

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

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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		
Solubility in water			
Remarks	miscible		

SECTION 10: Stability and reactivity

10.1. Reactivity

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

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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 toxicological effects****Acute oral toxicity**

ATE	1.241	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

Species	rat		
LD50	1620		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
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.		

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

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

Benzyl alcohol

Reference substance	benzyl alcohol		
Species	Rats (male/female)		
LC50	> 4178		mg/m ³
Duration of exposure	4	h	

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

Based on available data, the classification criteria are not 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)		
LC50	> 10000		mg/l

Benzyl alcohol

Reference substance	benzyl alcohol		
Species	Fathead minnow (Pimephales promelas)		
LC50	460		mg/l

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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

GlycerolSpecies 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

GlycerolSpecies 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

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

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

Value 75 %

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

evaluation	biodegradable
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Benzyl alcohol

Reference substance	benzyl alcohol
Value	92 to 96 %
Duration of test evaluation Method	14 d 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
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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

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	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).

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
Aquatic Chronic 3	H412	Calculation method

Hazard statements listed in Chapter 2/3

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H302	Harmful if swallowed.
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

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
 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.

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