

# Safety Data Sheet

according to Regulation (EC) No 1907/2006



## BUDENAT® LM

Revision date: 01.02.2021

D447

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

#### 1.1. Product identifier

BUDENAT® LM

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

##### Use of the substance/mixture

EuPCS: PP-BIO-2 Disinfectants and algacides not intended for direct application to humans or animals,

PP-BIO-4 Biocidal products for food and feed area

Process categories [PROC]: 8, 10

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

Company name: BUZIL-WERK Wagner GmbH & Co. KG

Street: Fraunhofer Str. 17

Place: D-87700 Memmingen

Telephone: +49 (0) 8331 930-6

Telefax: +49 (0) 8331 930-880

e-mail: info@buzil.de

Contact person: info@buzil.de

Internet: www.buzil.com

**1.4. Emergency telephone number:** +49 (0) 8331 930-6 (08:00 - 16:00 h)

### SECTION 2: Hazards identification

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

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

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1B

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes severe skin burns and eye damage.

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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

##### Hazard components for labelling

alkyldimethylethylbenzylammonium chloride

**Signal word:** Danger

**Pictograms:**



##### Hazard statements

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

##### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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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/doctor.  
P501 Dispose of contents/containers in accordance with local and national regulations.

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
68424-85-1	alkyldimethylbenzylammonium chloride			1 - < 5 %
	270-325-2			
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H400 H410			
7173-51-5	didecyldimethylammonium chloride			1 - < 5 %
	230-525-2	612-131-00-6		
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 2; H302 H314 H400 H411			
85409-23-0	alkyldimethylethylbenzylammonium chloride			1 - < 5 %
	287-090-7			
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1; H302 H314 H400			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			1 - < 5 %
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. Limits, M-factors and ATE			
68424-85-1	270-325-2	alkyldimethylbenzylammonium chloride	1 - < 5 %	
	inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = 3340 mg/kg; oral: LD50 = 344 mg/kg M akut; H400: M=10 M chron.; H410: M=1			
7173-51-5	230-525-2	didecyldimethylammonium chloride	1 - < 5 %	
	inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = 3342 mg/kg; oral: LD50 = 238 mg/kg M akut; H400: M=10			
85409-23-0	287-090-7	alkyldimethylethylbenzylammonium chloride	1 - < 5 %	
	inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 500 mg/kg			
67-63-0	200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	1 - < 5 %	
	inhalation: LC50 = >20 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg			

#### Labelling for contents according to Regulation (EC) No 648/2004

5 % - < 15 % cationic surfactants.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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### After inhalation

Provide fresh air.

### After contact with skin

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

Take off contaminated clothing and wash it before reuse.

### After contact with eyes

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

### After ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

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

No information 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

Carbon dioxide

Extinguishing powder

#### Unsuitable extinguishing media

Full water jet

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

Hazardous combustion products:

Carbon dioxide

Carbon monoxide

### 5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.

### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

#### General measures

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

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

#### Other information

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.

### 6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Avoid contact with skin, eyes and clothes.  
Do not mix with other chemicals.  
Use personal protection equipment.  
When using do not eat, drink or smoke.

##### Advice on protection against fire and explosion

No special fire protection measures are necessary.

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

##### Requirements for storage rooms and vessels

Keep container tightly closed.

##### Hints on joint storage

No special measures are necessary.

#### 7.3. Specific end use(s)

There are no data available on the mixture itself.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

#### 8.2. Exposure controls

##### Protective and hygiene measures

Take off contaminated clothing.  
Wash hands before breaks and after work.  
When using do not eat, drink or smoke.

##### Eye/face protection

Wear eye/face protection. (EN 166)

##### Hand protection

Wear suitable gloves. (EN 374, Breakthrough time: >10 min.)  
Suitable material: NBR (Nitrile rubber).  
Thickness of the glove material  $\geq 0,1$  mm  
A survey of suitable brands with detailed information on breakthrough times is available upon request.

Diluted ready-to-use solutions  $\leq 1\%$ :

Protective gloves may be waived, if equivalent measures allowing for an increased skin stress because of wet work are implemented (e. g. application of suitable skin protecting creams).

##### Skin protection

Wear suitable work clothing.

##### Respiratory protection

Usually no personal respirative protection necessary.

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### SECTION 9: Physical and chemical properties

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

Physical state: Liquid  
Colour: colourless  
Odour: characteristic

#### Test method

pH-Value (at 20 °C): 7,0 - 8,0

#### Changes in the physical state

Melting point: approx. 0 °C  
Boiling point or initial boiling point and boiling range: approx. 100 °C  
Flash point: > 60 °C

#### Flammability

Solid/liquid: not applicable  
Gas: not applicable  
Lower explosion limits: not determined  
Upper explosion limits: not determined

#### Self-ignition temperature

Solid: not applicable  
Gas: not applicable  
Decomposition temperature: not determined

#### Oxidizing properties

Not oxidising.  
Vapour pressure: not determined  
Density (at 25 °C): 0,99 g/cm<sup>3</sup>  
Water solubility: completely miscible

#### Solubility in other solvents

not determined  
Partition coefficient n-octanol/water: not determined  
Viscosity / dynamic:  
(at 25 °C) < 10 mPa·s (50 1/s)  
Relative vapour density: not determined  
Evaporation rate: not determined

#### 9.2. Other information

Solid content: not determined

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

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### 10.4. Conditions to avoid

The product is stable under storage at normal ambient temperatures.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

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

#### Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
68424-85-1	alkyldimethylbenzylammonium chloride				
	oral	LD50 344 mg/kg	Rat		
	dermal	LD50 3340 mg/kg	Rabbit		
	inhalation aerosol	LC50 >5 mg/l	Rat	ATE	
7173-51-5	didecyldimethylammonium chloride				
	oral	LD50 238 mg/kg	Rat		
	dermal	LD50 3342 mg/kg	Rabbit		
	inhalation aerosol	LC50 >5 mg/l	Rat	ATE	
85409-23-0	alkyldimethylethylbenzylammonium chloride				
	oral	LD50 500 mg/kg	Rat	ATE	
	dermal	LD50 >2000 mg/kg	Rat	ATE	
	inhalation aerosol	LC50 >5 mg/l	Rat	ATE	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50 >2000 mg/kg	Rat	ATE	
	dermal	LD50 >2000 mg/kg	Rat	ATE	
	inhalation vapour	LC50 >20 mg/l	Rat	ATE	

#### Irritation and corrosivity

Causes severe skin burns and eye damage.

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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.

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### Aspiration hazard

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

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
68424-85-1	alkyldimethylbenzylammonium chloride					
	Acute fish toxicity	LC50 mg/l	0,28	96 h	Pimephales promelas (fathead minnow)	
	Acute algae toxicity	ErC50 mg/l	0,049		Pseudokirchneriella subcapitata	OECD 201
	Acute crustacea toxicity	EC50 mg/l	0,016	48 h	Daphnia magna (Big water flea)	OECD 202
7173-51-5	didecyldimethylammonium chloride					
	Acute fish toxicity	LC50 mg/l	0,19	96 h	Pimephales promelas (fathead minnow)	
	Acute algae toxicity	ErC50 mg/l	0,026		Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50 mg/l	0,062	48 h	Daphnia magna (Big water flea)	
85409-23-0	alkyldimethylethylbenzylammonium chloride					
	Acute fish toxicity	LC50 mg/l	0,71	96 h	Danio rerio (zebrafish)	OECD 203
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol					
	Acute fish toxicity	LC50 mg/l	> 1000	96 h		
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h		

### 12.2. Persistence and degradability

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
68424-85-1	alkyldimethylbenzylammonium chloride			
	OECD 301	>70%	28	
	Readily biodegradable (according to OECD criteria).			
7173-51-5	didecyldimethylammonium chloride			
	OECD 301	>70%	28	
	Readily biodegradable (according to OECD criteria).			
85409-23-0	alkyldimethylethylbenzylammonium chloride			
	OECD 301	>60%	28	
	Readily biodegradable (according to OECD criteria).			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			
	OECD 301	>60%	28	
	Readily biodegradable (according to OECD criteria).			

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

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### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68424-85-1	alkyldimethylbenzylammonium chloride	<3

### 12.4. Mobility in soil

The product has not been tested.

### 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.

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Dispose of waste according to applicable legislation.

Delivery to an approved waste disposal company.

#### List of Wastes Code - residues/unused products

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors; hazardous waste

#### List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

#### Contaminated packaging

Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### Land transport (ADR/RID)

14.1. UN number:	UN 1903
14.2. UN proper shipping name:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (quaternary nitrogen compounds)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C9
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

### Inland waterways transport (ADN)

14.1. UN number:	UN 1903
14.2. UN proper shipping name:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (quaternary nitrogen compounds)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8



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Classification code: C9  
Special Provisions: 274  
Limited quantity: 5 L  
Excepted quantity: E1

### Marine transport (IMDG)

**14.1. UN number:** UN 1903  
**14.2. UN proper shipping name:** DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (quaternary nitrogen compounds)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8  
Marine pollutant: yes  
Special Provisions: 223, 274  
Limited quantity: 5 L  
Excepted quantity: E1  
EmS: F-A, S-B

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

**14.1. UN number:** UN 1903  
**14.2. UN proper shipping name:** DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (quaternary nitrogen compounds)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8  
Special Provisions: A3 A803  
Limited quantity Passenger: 1 L  
Passenger LQ: Y841  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 852  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 856  
IATA-max. quantity - Cargo: 60 L

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

### 14.6. Special precautions for user

No special measures are necessary.

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

not applicable

## SECTION 15: Regulatory information

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

2010/75/EU (VOC): < 30 %

#### Additional information

Regulation (EC) No. 648/2004 (Detergents regulation)

#### National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

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### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### Changes

This data sheet contains changes from the previous version in section(s): 16.

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Process categories according to ECHA guidance on information requirements and chemical safety assessment, chapter R.12:

PROC 1: Use in closed processes.

PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 4: Chemical production where opportunity for exposure arises

PROC 7: Industrial spraying

PROC 8 (Transfer): Dilution of concentrated products, application of drain cleaners, dosage of textile washing agents.

PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC 10 (Roller application or brushing): Processing without large-scale spraying.

PROC 11 (Spraying outside industrial settings): Processing with large-scale spraying (e. g. high pressure cleaning, foam gun).

PROC 13: Treatment of articles by dipping and pouring

PROC 19 (Hand-mixing with intimate contact): Hand cleaning and disinfection

### Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

### Further Information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]: 9 (1)

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.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*