

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## EM-200 Desinfektionsmittelkonzentrat

Revision date: 30.04.2021

Product code: 00320-0091N-GHS

Page 1 of 11

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

#### 1.1. Product identifier

EM-200 Desinfektionsmittelkonzentrat

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

##### Use of the substance/mixture

Instrument disinfectant

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

Company name: EMAG AG  
 Street: Gerauerstr. 34  
 Place: 64546 Mörfelden Walldorf  
 Telephone: +49 (0) 6105-40670      Telefax: +49 (0) 6105-406750  
 e-mail: a.emekci@emag-germany.de  
 Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

#### 1.4. Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
 In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

### SECTION 2: Hazards identification

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

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

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Causes skin irritation.

Causes serious eye damage.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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

##### Hazard components for labelling

N,N-didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate

Alcohol ethoxylate C9-C11

Guanidine, N,N"-1,3-propanediylbis-, N-coco alkyl derivs., diacetates

Tridecylamine

Signal word: Danger

Pictograms:



##### Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

##### Precautionary statements

P273 Avoid release to the environment.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## EM-200 Desinfektionsmittelkonzentrat

Revision date: 30.04.2021

Product code: 00320-0091N-GHS

Page 2 of 11

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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P501	Dispose of contents/container to approved disposal company or local collection.

### 2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Aqueous preparation with detergents and solvents

#### Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	GHS Classification	
112-34-5	2-(2-Butoxyethoxy)ethanol	< 10 %
	203-961-6	603-096-00-8
	01-2119475104-44	
	Eye Irrit. 2; H319	
169107-21-5	Alcohols, C9-11-branched, ethoxylated	< 10 %
	Acute Tox. 4, Eye Dam. 1; H302 H318	
94667-33-1	N,N-didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate	< 10 %
	619-057-3	01-2119950327-36
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H400 H410	
85681-60-3	Guanidine, N,N"-1,3-propanediylbis-, N-coco alkyl derivs., diacetates	< 5 %
	288-198-7	01-2119980967-14
	Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H400 H410	
106232-83-1	Alcohols, C12-15-branched and linear, ethoxylated	< 5 %
	Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 3; H302 H318 H412	
107-21-1	Ethane-1,2-diol	< 5 %
	203-473-3	603-027-00-1
	01-2119456816-28	
	Acute Tox. 4, STOT RE 2; H302 H373	
86089-17-0	Tridecylamine	< 2,5 %
	289-185-9	01-2119461722-40
	Acute Tox. 4, Skin Corr. 1B, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H335 H400 H410	

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

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## EM-200 Desinfektionsmittelkonzentrat

Revision date: 30.04.2021

Product code: 00320-0091N-GHS

Page 3 of 11

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

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
112-34-5	203-961-6	2-(2-Butoxyethoxy)ethanol	< 10 %
		dermal: LD50 = 4120 mg/kg; oral: LD50 = 5660 mg/kg	
169107-21-5		Alcohols, C9-11-branched, ethoxylated	< 10 %
		oral: ATE = 500 mg/kg	
94667-33-1	619-057-3	N,N-didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate	< 10 %
		oral: LD50 = 1157 mg/kg M akut; H400: M=10 M chron.; H410: M=1	
85681-60-3	288-198-7	Guanidine, N,N"-1,3-propanediylbis-, N-coco alkyl derivs., diacetates	< 5 %
		oral: ATE = 500 mg/kg M akut; H400: M=10 M chron.; H410: M=1	
106232-83-1		Alcohols, C12-15-branched and linear, ethoxylated	< 5 %
		oral: ATE = 500 mg/kg	
107-21-1	203-473-3	Ethane-1,2-diol	< 5 %
		dermal: LD50 = 9530 mg/kg; oral: LD50 = 5840 mg/kg	
86089-17-0	289-185-9	Tridecylamine	< 2,5 %
		oral: LD50 = 820 mg/kg M akut; H400: M=10 M chron.; H410: M=10	

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated soaked clothing immediately.  
If you feel unwell, seek medical advice.

#### After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.  
In the event of symptoms refer for medical treatment.

#### After contact with skin

Wash off immediately with soap and plenty of water.  
Consult a doctor if skin irritation persists.

#### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Consult (eye) doctor immediately.

#### After ingestion

Do not provoke vomiting. Consult physician. Attention in case of vomiting - acute danger of suffocating, produced by foaming ingredients. Rinse mouth. Make drink some glasses of water. The decision whether to provoke vomiting is to be taken by a physician.

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

Causes skin irritation.  
Causes serious eye damage.  
Watch out. Beware, hazard of foam aspiration.

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

Treat symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## EM-200 Desinfektionsmittelkonzentrat

Revision date: 30.04.2021

Product code: 00320-0091N-GHS

Page 4 of 11

### Suitable extinguishing media

Product does not burn, fire-extinguishing activities according to surrounding.

### Unsuitable extinguishing media

Full water jet

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

Fire may produce:

carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>)

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

### Additional information

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

#### General measures

Ensure adequate ventilation.

Keep away noninvolved persons.

#### For non-emergency personnel

Do not breathe vapours.

Avoid contact with skin, eyes and clothing.

#### For emergency responders

In case of vapour formation use respirator.

Use personal protective clothing.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

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

#### For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

#### For cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

### 6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Keep container tightly closed.

Avoid contact with skin, eyes and clothing.

Use only in well-ventilated areas.

#### Advice on protection against fire and explosion

No special protective measures against fire required.

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

#### Requirements for storage rooms and vessels

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

Keep at temperatures between 5°C and 25°C.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## EM-200 Desinfektionsmittelkonzentrat

Revision date: 30.04.2021

Product code: 00320-0091N-GHS

Page 5 of 11

### Hints on joint storage

Incompatible with oxidizing agents.

### Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

Instrument disinfectant

## 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
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	WEL
		15	101.2		STEL (15 min)	WEL
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL

### 8.2. Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

#### Protective and hygiene measures

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Avoid contact with skin, eyes and clothing.

#### Eye/face protection

Tightly fitting goggles (EN 166).

Eye wash bottle with pure water (EN 15154).

#### Hand protection

Chemical-resistant gloves (EN 374)

(recommended: minimum protection index 2, corresponding to a permeation rate > 30 minutes according to EN 374)

Butyl rubber - Butyl (0,5 mm)

Fluoro-rubber - FKM (0.4 mm)

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

#### Skin protection

Long sleeved clothing (DIN EN ISO 6530)

#### Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid
Colour:	Yellowish
Odour:	Perfumed (scented)

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## EM-200 Desinfektionsmittelkonzentrat

Revision date: 30.04.2021

Product code: 00320-0091N-GHS

Page 6 of 11

### Test method

pH-Value: 8,1 - 10,1 Concentrate

### Changes in the physical state

Melting point: n.d.

Boiling point or initial boiling point and boiling range: approx. 100 °C

Sublimation point: n.a.

Softening point: n.d.

Flash point: n.a.

Sustaining combustion: Not sustaining combustion

### Flammability

Solid/liquid: n.a.

Gas: n.a.

### Explosive properties

The product is not explosive.

Lower explosion limits: n.d.

Upper explosion limits: n.d.

Auto-ignition temperature: n.d.

### Self-ignition temperature

Solid: n.a.

Gas: n.a.

Decomposition temperature: n.d.

### Oxidizing properties

Not oxidising.

Vapour pressure: n.d.

Density (at 20 °C): 0,993 - 1,013 g/cm<sup>3</sup>

Bulk density: n.a.

Water solubility: Miscible  
(at 20 °C)

### Solubility in other solvents

n.d.

Partition coefficient n-octanol/water: n.d.

Viscosity / dynamic: n.d.

Viscosity / kinematic: n.d.

Flow time: n.d.

Relative vapour density: n.d.

Evaporation rate: n.d.

Solvent separation test: n.d.

Solvent content: 10 %

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

**EM-200 Desinfektionsmittelkonzentrat**

Revision date: 30.04.2021

Product code: 00320-0091N-GHS

Page 7 of 11

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reactions with oxidizing agents.

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

**10.5. Incompatible materials**

Strong oxidizing agents

**10.6. Hazardous decomposition products**

No hazardous decomposition products known.

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>)

**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.

No toxicological data available.

ATEmix/oral: > 2000 mg/kg

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye damage.

Skin: Non corrosive [OECD 435]

**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.

**Aspiration hazard**

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

**Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008 and on the basis of toxicological data.

**11.2. Information on other hazards****Endocrine disrupting properties**

No data available

**Other information**

Watch out. Beware, hazard of foam aspiration.

**SECTION 12: Ecological information****12.1. Toxicity**

Ecological data are not available.

Very toxic to aquatic life with long lasting effects.

**12.2. Persistence and degradability**

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## EM-200 Desinfektionsmittelkonzentrat

Revision date: 30.04.2021

Product code: 00320-0091N-GHS

Page 8 of 11

No data available

### **12.3. Bioaccumulative potential**

No data available

### **12.4. Mobility in soil**

No data available

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

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

### **12.6. Endocrine disrupting properties**

No data available

### **12.7. Other adverse effects**

Severe hazard to waters

### **Further information**

This concentrate is not allowed to be released into the sewerage, surface water or groundwater.

## SECTION 13: Disposal considerations

### **13.1. Waste treatment methods**

#### **Disposal recommendations**

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

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

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

#### **Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible.

Packaging that cannot be cleaned should be disposed of like the product.

## SECTION 14: Transport information

### **Land transport (ADR/RID)**

#### **14.1. UN number:**

UN 3082

#### **14.2. UN proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Disinfectant)

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

9

#### **14.4. Packing group:**

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L / 30 kg

Excepted quantity:

E1

Transport category:

3

Hazard No:

90

Tunnel restriction code:

-

### **Other applicable information (land transport)**

Special provision 375: Product in packaging (inner packaging, single packaging) up to 5 L is not subject to the



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## EM-200 Desinfektionsmittelkonzentrat

Revision date: 30.04.2021

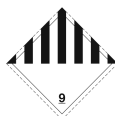
Product code: 00320-0091N-GHS

Page 9 of 11

provisions of ADR/RID.

### Inland waterways transport (ADN)

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Disinfectant)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Classification code: M6  
 Special Provisions: 274 335 375 601  
 Limited quantity: 5 L / 30 kg  
 Excepted quantity: E1

### Other applicable information (inland waterways transport)

Special provision 375: Product in packaging (inner packaging, single packaging) up to 5 L is not subject to the provisions of ADN.

### Marine transport (IMDG)

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Disinfectant)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



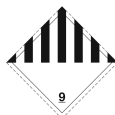
Marine pollutant: Yes  
 Special Provisions: 274, 335, 969  
 Limited quantity: 5 L / 30 kg  
 Excepted quantity: E1  
 EmS: F-A, S-F

### Other applicable information (marine transport)

Subsection 2.10.2.7 IMDG Code: Product in packaging (inner packaging, single packaging) up to 5 L is not subject to the provisions of MDG Code.

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

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Disinfectant)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Special Provisions: A97 A158 A197  
 Limited quantity Passenger: 30 kg G

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## EM-200 Desinfektionsmittelkonzentrat

Revision date: 30.04.2021

Product code: 00320-0091N-GHS

Page 10 of 11

Passenger LQ:	Y964
Excepted quantity:	E1
IATA-packing instructions - Passenger:	964
IATA-max. quantity - Passenger:	450 L
IATA-packing instructions - Cargo:	964
IATA-max. quantity - Cargo:	450 L

### Other applicable information (air transport)

Special provision A197: Product in packaging (inner packaging, single packaging) up to 5 L is not subject to the provisions of IATA/DGR.

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



### 14.6. Special precautions for user

Take the usual precautions when handling with chemicals.

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

The transport takes place only in approved and appropriate packaging.

## 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, Entry 55

2004/42/EC (VOC): 10 %

Information according to 2012/18/EU (SEVESO III): E1 Hazardous to the Aquatic Environment

#### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 3 - highly hazardous to water

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### Changes

Changes in section: 2, 3, 7, 11, 12, 14, 15

### Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## EM-200 Desinfektionsmittelkonzentrat

Revision date: 30.04.2021

Product code: 00320-0091N-GHS

Page 11 of 11

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

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

Classification	Classification procedure
Skin Irrit. 2; H315	On basis of test data
Eye Dam. 1; H318	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

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

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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