

Product name: CARBOWET® GA-211

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

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

### 1.1 Product identifier

**Product name:**  
CARBOWET® GA-211

**Chemical name:**  
Blend of ethoxylated alcohols and acetylene diol

**UFI: 5EC0-G0MD-D00Q-T63Y**

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

**Identified uses:** Industrial use

**Uses advised against:** None known.

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

Company Name : Evonik Operations GmbH  
Rellinghauser Str. 1-11  
45128 Essen  
Germany

Telephone : +49 201 173 01

Fax : +49 201 173 3000

E-mail : productsafety-cs@evonik.com

### 1.4 Emergency telephone number:

24-Hour Health : +49 2365 49 2232  
Emergency : +49 2365 49 4423 (Fax)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

**Classification according to Regulation (EC) No 1272/2008 as amended.**

#### Health Hazards

Serious eye damage	Category 1	H318: Causes serious eye damage.
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.

#### Environmental Hazards

Chronic hazards to the aquatic environment	Category 3	H412: Harmful to aquatic life with long lasting effects.
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### 2.2 Label Elements

**Product name: CARBOWET® GA-211**
**Contains:** 2,4,7,9-Tetramethyldec-5-yne-4,7-diol

**Signal Words:** Danger

**Hazard Statement(s):**  
 H318: Causes serious eye damage.  
 H317: May cause an allergic skin reaction.  
 H412: Harmful to aquatic life with long lasting effects.

**Precautionary Statements**
**Prevention:**  
 P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**  
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
 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/ physician.

**2.3 Other hazards** None known.

**Endocrine disrupting properties-Toxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Endocrine disrupting properties-Ecotoxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**
**Chemical name:**

Blend of ethoxylated alcohols and acetylene diol

**3.2 Mixtures**

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
2,4,7,9-Tetramethyldec-5-yne-4,7-diol	25 - <50%	126-86-3	204-809-1	01-2119954390-39	No data available.	
Alcohols, C11-15-secondary,	20 - <50%	68131-40-8	614-295-4	-	No data available.	

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ethoxylated						
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\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# This substance has workplace exposure limit(s).

## This substance is listed as SVHC.

**Classification**

Chemical name	Classification	Notes
2,4,7,9-Tetramethyldec-5-yne-4,7-diol	Classification: Eye Dam.: 1: H318; Skin Sens.: 1B: H317; Aquatic Chronic: 3: H412;  Supplemental label information: None known.  Specific concentration limit: None known.  Acute toxicity, oral: LD 50: > 5.000 mg/kg  Acute toxicity, inhalation: LC 50: > 20 mg/l  Acute toxicity, dermal: LD 50: > 5.000 mg/kg	No data available.
Alcohols, C11-15-secondary, ethoxylated	Classification: Eye Irrit.: 2: H319;  Supplemental label information: None known.  Specific concentration limit: None known.  Acute toxicity, oral: None known.  Acute toxicity, inhalation: None known.  Acute toxicity, dermal: None known.	No data available.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

**SECTION 4: First aid measures**
**4.1 Description of necessary first-aid measures**

<b>General information:</b>	Immediately remove contaminated clothing.
<b>Inhalation:</b>	fresh air supply, consult a doctor if feeling unwell.
<b>Skin Contact:</b>	In case of contact with skin wash off with soap and water. In case of discomfort: Supply with medical care.
<b>Eye contact:</b>	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice
<b>Ingestion:</b>	Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.
<b>Personal Protection for First-aid Responders:</b>	No data available.

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

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**Symptoms:** Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat.

**Hazards:** No data available.

**4.3 Indication of immediate medical attention and special treatment needed**

**Treatment:** Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media:** foam, carbon dioxide, dry powder, water spray.

**Unsuitable extinguishing media:** High volume water jet.

**5.2 Special hazards arising from the substance or mixture:**

In the event of fire the following can be released: - carbon dioxide, carbon monoxide Under certain conditions of combustion traces of other toxic substances cannot be excluded

**5.3 Advice for firefighters**

**Special fire-fighting procedures:** No specific precautions.

**Special protective equipment for fire-fighters:** Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus and wear protective suit

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment.

**6.1.1 For non-emergency personnel:** No data available.

**6.1.2 For emergency responders:** No data available.

**6.2 Environmental Precautions:** Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.

**6.3 Methods and material for containment and cleaning up:** Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with the regulations.

**6.4 Reference to other sections:** For further information on exposure monitoring and disposal see sections 8 and 13.

**SECTION 7: Handling and storage:**

**7.1 Precautions for safe handling**

**Technical measures (e.g. Local and general ventilation):** No data available.

**Safe handling advice:** Provide good ventilation of working area (local exhaust ventilation if necessary). Do not inhale

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gases/vapours/aerosols. Avoid contact with skin and eyes.

**Contact avoidance measures:** No data available.

**7.2 Conditions for safe storage, including any incompatibilities**
**Safe storage conditions:** Keep container tightly closed in a cool, well-ventilated place. Keep away from direct sunlight. Protect from frost. Do not store with acids or alkalis Do not store together with oxidizing agents.

**Safe packaging materials:** No data available.

**7.3 Specific end use(s):** No further recommendations.

**SECTION 8: Exposure controls/personal protection**
**8.1 Control Parameters**
**Occupational Exposure Limits**

None of the components have assigned exposure limits.

**Biological Limit Values**

No biological exposure limits noted for the ingredient(s).

**DNEL-Values**

Remarks: DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
2,4,7,9-Tetramethyldec-5-yne-4,7-diol	Workers	Dermal	Systemic, short-term; 1,5 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, short-term; 0,75 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 0,43 mg/m3	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 0,5 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, short-term; 0,75 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, short-term; 1,29 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 5,28 mg/m3	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0,25 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 1,76 mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0,25 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effects;	Medium hazard (no threshold derived).
	Workers	Eyes	Local effects;	Medium hazard (no threshold derived).

**PNEC-Values**

Remarks: PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
2,4,7,9-Tetramethyldec-5-yne-4,7-diol	marine water	0,004 mg/l	
	Soil	0,028 mg/kg	
	Sewage treatment plant	7 mg/l	

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	freshwater sediment	0,32 mg/kg	
	freshwater	0,04 mg/l	
	marine water sediment	0,032 mg/kg	

## 8.2 Exposure controls

**Appropriate Engineering Controls:** No data available.

### Individual protection measures, such as personal protective equipment

<b>Eye/face protection:</b>	Tightly fitting safety goggles
<b>Hand Protection:</b>	Additional Information: gloves made of chloroprene (CR, e.g. Neoprene), gloves made of nitril (NBR)
<b>Skin and Body Protection:</b>	protective clothing
<b>Respiratory Protection:</b>	in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2
<b>Hygiene measures:</b>	Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Remove soiled or soaked clothing immediately. Use skin protective preparation as preventive skin protection.
<b>Environmental Controls:</b>	The environmental regulations on the control and monitoring of environmental exposures are to be observed.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Pale yellow
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	not measured
<b>Freezing point:</b>	not measured
<b>Boiling Point:</b>	100 °C
<b>Flammability:</b>	not measured
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Explosive limit - upper:</b>	not measured
<b>Explosive limit - lower:</b>	not measured
<b>Flash Point:</b>	> 101 °C
<b>Self Ignition Temperature:</b>	not measured
<b>Decomposition Temperature:</b>	not measured
<b>pH:</b>	6,5 (25 °C)

#### Viscosity

<b>Dynamic viscosity:</b>	105 mPa.s (25 °C)
<b>Kinematic viscosity:</b>	107 mm <sup>2</sup> /s (25 °C)
<b>Flow Time:</b>	No data available.

#### Solubility(ies)

<b>Solubility in Water:</b>	not measured
<b>Solubility (other):</b>	not measured

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<b>Dissolution Rate:</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	not measured
<b>Dispersion Stability:</b>	No data available.
<b>Vapor pressure:</b>	21,251 hPa (21 °C)
<b>Relative density:</b>	not measured
<b>Density:</b>	0,98 g/cm <sup>3</sup> (25 °C)
<b>Bulk density:</b>	No data available.
<b>Relative vapor density:</b>	not measured

## 9.2 Other information

<b>Explosive properties:</b>	not measured
<b>Oxidizing properties:</b>	not oxidizing
<b>Minimum ignition temperature:</b>	not measured
<b>Metal Corrosion:</b>	Not corrosive to metals
<b>Evaporation Rate:</b>	not measured

<b>SECTION 10: Stability and reactivity</b>
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<b>10.1 Reactivity:</b>	see section "Possibility of hazardous reactions".
<b>10.2 Chemical Stability:</b>	The product is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions:</b>	No hazardous reactions with proper storage and handling
<b>10.4 Conditions to avoid:</b>	Freezing. direct sunlight
<b>10.5 Incompatible Materials:</b>	Oxidizing agents. Acids. Alkalies.
<b>10.6 Hazardous Decomposition Products:</b>	None with proper storage and handling.

<b>SECTION 11: Toxicological information</b>
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### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

<b>Inhalation:</b>	Information on effects are given below.
<b>Skin Contact:</b>	Information on effects are given below.
<b>Eye contact:</b>	Information on effects are given below.
<b>Ingestion:</b>	Information on effects are given below.

#### Acute toxicity (list all possible routes of exposure)

##### Oral

<b>Product:</b>	No data available.
<b>Components:</b>	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol	LD 50 (Rat, Female, Male) : > 5.000 mg/kg

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Alcohols, C11-15-  
secondary, ethoxylated      No data available.

**Dermal**

**Product:**      No data available.

**Components:**  
2,4,7,9-Tetramethyldec-  
5-yne-4,7-diol      LD 50 (Rabbit) : > 5.000 mg/kg

Alcohols, C11-15-  
secondary, ethoxylated      No data available.

**Inhalation**

**Product:**      No data available.

**Components:**  
2,4,7,9-Tetramethyldec-  
5-yne-4,7-diol      LC 50 (Rat, 1 h): > 20 mg/l Dusts, mists and fumes  
LC 50 (Rat, 4 h): > 5 mg/l Dusts, mists and fumes  
Vapour, No data available.

Alcohols, C11-15-  
secondary, ethoxylated      Vapour, No data available.  
Dusts, mists and fumes, No data available.

**Repeated dose toxicity**

**Product:**      No data available.

**Components:**  
2,4,7,9-Tetramethyldec-  
5-yne-4,7-diol      NOAEL - No Observable Adverse Effect Level (Rat, Oral, daily): 500 mg/kg

Alcohols, C11-15-  
secondary, ethoxylated      No data available.

**Skin Corrosion/Irritation**

**Product:**      No data available.

**Components:**  
2,4,7,9-Tetramethyldec-5-  
yne-4,7-diol      OECD 404 (Rabbit, 4 h): Not irritating

Alcohols, C11-15-  
secondary, ethoxylated      No data available.

**Serious Eye Damage/Eye Irritation**

**Product:**      No data available.

**Components:**  
2,4,7,9-Tetramethyldec-5-  
yne-4,7-diol      US-EPA-method (Rabbit): Risk of serious damage to eyes.

Alcohols, C11-15-  
secondary, ethoxylated      Irritating.

**Respiratory or Skin Sensitization**

**Product:**      No data available.

**Components:**  
2,4,7,9-Tetramethyldec-5-  
yne-4,7-diol      Local Lymph Node Assay (LLNA), OECD 429 (Mouse): Skin sensitizer

Alcohols, C11-15-  
secondary, ethoxylated      No data available.

**Carcinogenicity**

**Product:**      No data available.

**Components:**  
2,4,7,9-Tetramethyldec-5-  
yne-4,7-diol      No data available.

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Alcohols, C11-15-  
secondary, ethoxylated      No data available.

**Germ Cell Mutagenicity**

No data available.

**In vitro**

**Product:** No data available.

**Components:**  
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol      Ames test (OECD 471): negative Own study  
    Chromosomal aberration (OECD 473): negative Own study  
    gene mutation test (OECD 476): negative Own study

Alcohols, C11-15-  
secondary, ethoxylated      No data available.

**In vivo**

**Product:** No data available.

**Components:**  
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol      No data available.

Alcohols, C11-15-  
secondary, ethoxylated      No data available.

**Reproductive toxicity**

**Product:** No data available.

**Components:**  
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol      Oral

Alcohols, C11-15-  
secondary, ethoxylated      No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Components:**  
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol      No data available.

Alcohols, C11-15-  
secondary, ethoxylated      No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Components:**  
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol      No data available.

Alcohols, C11-15-  
secondary, ethoxylated      No data available.

**Aspiration Hazard**

**Product:** Not classified

**Components:**  
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol      Not applicable

Alcohols, C11-15-  
secondary, ethoxylated      Not classified

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

**Product name: CARBOWET® GA-211**

**Product:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;

**Components:**  
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol No data available.  
 Alcohols, C11-15-secondary, ethoxylated No data available.

**Other hazards**

**Product:** The properties of this product which are hazardous to health have been calculated as per regulation (EC) No. 1272/2008. See section 2 "Hazards Identification".;

**SECTION 12: Ecological information**
**12.1 Toxicity:**
**Acute hazards to the aquatic environment:**
**Fish**

**Product:** No data available.

**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol LC 50 (Pimephales promelas, 96 h): 36 mg/l  
 LC 50 (Cyprinus carpio (Carp), 96 h): 42 mg/l  
 NOEC (Cyprinus carpio (Carp), 96 h): 10 mg/l

Alcohols, C11-15-secondary, ethoxylated No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol EC 50 (Daphnia magna, 48 h): 88 mg/l  
 EC 50 (Daphnia magna, 48 h): 91 mg/l  
 NOEC (Daphnia magna, 48 h): 43 mg/l

Alcohols, C11-15-secondary, ethoxylated No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 15 mg/l (OECD 201)  
 EC 10 (Algae (Pseudokirchneriella subcapitata), 72 h): 1,8 mg/l (OECD 201)  
 ErC50 (Algae (Pseudokirchneriella subcapitata), 72 h): 82 mg/l (OECD 201)

Alcohols, C11-15-secondary, ethoxylated No data available.

**Toxicity to microorganisms**

**Product:** No data available.

**Components:**

2,4,7,9-Tetramethyldec-5- EC 50 (activated sludge, 3 h): Approximate 630 mg/l (OECD 209)

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yne-4,7-diol  
 Alcohols, C11-15-  
 secondary, ethoxylated

No data available.

**Chronic hazards to the aquatic environment:**
**Fish**

**Product:** No data available.

**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol No data available.

Alcohols, C11-15-  
 secondary, ethoxylated No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol No data available.

Alcohols, C11-15-  
 secondary, ethoxylated No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol No data available.

Alcohols, C11-15-  
 secondary, ethoxylated No data available.

**Toxicity to microorganisms**

**Product:** No data available.

**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol EC 50 (activated sludge, 3 h): Approximate 630 mg/l (OECD 209)

Alcohols, C11-15-  
 secondary, ethoxylated No data available.

**12.2 Persistence and Degradability**
**Biodegradation**

**Product:** No data available.

**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol 5 % (28 d, OECD 301 B) The product is not biodegradable., aerobic  
 8 - 12 % (60 d, OECD 301 B) The product is not biodegradable., aerobic  
 25,4 % (57 d, OECD 302 A) The product is not biodegradable., aerobic

Alcohols, C11-15-  
 secondary, ethoxylated No data available.

**BOD/COD Ratio**

**Product:** No data available.

**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol No data available.

Alcohols, C11-15-  
 secondary, ethoxylated No data available.

**12.3 Bioaccumulative potential**

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#### Bioconcentration Factor (BCF)

**Product:** No data available.

**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol No data available.

Alcohols, C11-15-secondary, ethoxylated No data available.

#### Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: not measured

**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol Log Kow: 2,8 22 °C (OECD 117) Yes

Alcohols, C11-15-secondary, ethoxylated No data available.

#### 12.4 Mobility in soil:

**Product** No data available.

**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol No data available.

Alcohols, C11-15-secondary, ethoxylated No data available.

#### 12.5 Results of PBT and vPvB assessment:

**Product** No data available.

**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol Non-classified vPvB substance  
Non-classified PBT substance

Alcohols, C11-15-secondary, ethoxylated Non-classified vPvB substance  
Non-classified PBT substance

#### 12.6 Endocrine disrupting properties:

**Product:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol No data available.

Alcohols, C11-15-secondary, ethoxylated No data available.

#### 12.7 Other adverse effects:

##### Other hazards

**Product:** The product is classified as slightly hazardous to waters (according to the German Regulation on the Classification of Substances Hazardous to Waters (WwSV). Do not allow to enter soil, waterways or waste water canal.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

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<b>General information:</b>	No data available.
<b>Disposal methods:</b>	In accordance with local authority regulations, take to special waste incineration plant
<b>Contaminated Packaging:</b>	If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

#### SECTION 14: Transport information

##### 14.1 UN/ID No.

Not regulated as a dangerous good

##### 14.2 UN proper shipping name

Not regulated as a dangerous good

##### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

##### 14.4 Packing group

Not regulated as a dangerous good

##### 14.5 Environmental hazards

Not regulated as a dangerous good

##### 14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

#### SECTION 15: Regulatory information

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

**EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:** Not applicable

**15.2 Chemical safety assessment:** No chemical safety assessment was carried out for this product.

#### SECTION 16: Other information

##### Abbreviations and acronyms:

**ADR** - European Agreement concerning the International Carriage of Dangerous Goods by Road; **ADN** - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; **AGW** - Occupational exposure limit; **ASTM** - American Society for Testing and Materials; **AwSV** - Ordinance on facilities for handling substances that are hazardous to water; **BSB** - Biochemical oxygen demand; **c.c.** - closed cup; **CAS** - Chemical Abstract Services; **CESIO** - European Committee of Organic Surfactants and their Intermediates; **CSB** - Chemical oxygen demand; **DMEL** - Derived minimum effect level; **DNEL** - Derived no effect level; **EbC50** - median concentration in terms of reduction of growth; **EC** - Effective concentration; **EINECS** - European Inventory of Existing Commercial Chemical Substances; **EN** - European norm; **ErC50** - median concentration in terms of reduction of growth rate; **GGVSEB** - German ordinance for road, rail and inland waterway transportation of

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dangerous goods; **GGVSee** - German ordinance for sea transportation of dangerous goods; **GLP** - Good Laboratory Practice; **GMO** - Genetic Modified Organism; **IATA** - International Air Transport Association; **ICAO** - International Civil Aviation Organization; **IMDG** - International Maritime Dangerous Goods; **ISO** - International Organization For Standardization; **LD/LC** - lethal dose/concentration; **LOAEL** - Lowest observed adverse effect level; **LOEL** - Lowest observed effect level; **M-Factor** - multiplying factor; **NOAEL** - No observed adverse effect level; **NOEC** - no observed effect concentration; **NOEL** - no observed effect level; **o.c.** - open cup; **OECD** - Organisation for Economic Cooperation and Development; **OEL** - Occupational Exposure Limit; **PBT** - Persistent, bioaccumulative, toxic; **PNEC** - Predicted no effect concentration; **REACH** - REACH registration; **RID** - Convention concerning International Carriage by Rail; **SVHC** - Substances of Very High Concern; **TA** - Technical Instructions; **TRGS** - Technical Rules for Hazardous Substances; **vPvB** - very persistent, very bioaccumulative; **WGK** - Water Hazard Class

**Key literature references and sources for data:** No data available.

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

Classification according to Regulation (EC) No 1272/2008 as amended.	Classification procedure
Serious eye damage, Category 1	On basis of test data
Skin sensitizer, Category 1	On basis of test data
Chronic hazards to the aquatic environment, Category 3	On basis of test data

**Wording of the H-statements in section 2 and 3**

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

**Training information:** Comply with national laws regulating employee instruction.

**Revision Information** Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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