

Product name: CARBOWET® GA-211

SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

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

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)

National Poison Information Service (NPIS)
England, Scotland and Wales: NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

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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Product name: CARBOWET® GA-211

2.2 Label Elements



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.

Hazardous ingredients which must be listed on the label:

2,4,7,9-Tetramethyldec-5-yne-4,7-diol

2.3 Other hazards

None known.

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.	UK-REACH Registration 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	UK-01-982540637-0-8	01-211995439-0-39	No data available.	
Alcohols, C11-15-secondary, ethoxylated	20 - <50%	68131-40-8	614-295-4		-	No data available.	

* 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.

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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.	None.
Alcohols, C11-15-secondary, ethoxylated	Classification: Eye Irrit.: 2: H319; Supplemental label information: None known.	None.

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

SECTION 4: First aid measures
4.1 Description of first aid measures

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

4.2 Most important symptoms and effects, both acute and delayed

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.
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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

Product name: CARBOWET® GA-211

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:** No data available.
- Local/Total ventilation:** No data available.
- Safe handling advice:** Provide good ventilation of working area (local exhaust ventilation if necessary). Do not inhale 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).

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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/m ³	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/m ³	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 5.28 mg/m ³	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0.25 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 1.76 mg/m ³	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.25 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Eyes	Local effect;	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	Aquatic (marine water)	0.004 mg/l	
	Soil	0.028 mg/kg	
	Sewage treatment plant	7 mg/l	
	Sediment (freshwater)	0.32 mg/kg	
	Aquatic (freshwater)	0.04 mg/l	
	Sediment (marine water)	0.032 mg/kg	

8.2 Exposure controls
Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Tightly fitting safety goggles
Hand Protection:	Additional Information: gloves made of chloroprene (CR, e.g. Neoprene), gloves made of nitril (NBR)
Skin and Body Protection:	protective clothing
Respiratory Protection:	in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2
Hygiene measures:	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.
Environmental Controls:	The environmental regulations on the control and monitoring of environmental exposures are to be observed.

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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance**

Physical state:	liquid
Form:	liquid
Color:	Pale yellow
Odor:	Characteristic
Odor Threshold:	not measured
Freezing point:	not measured
Boiling Point:	100 °C
Flammability:	not measured
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	> 101 °C
Auto-ignition temperature:	not measured
Decomposition Temperature:	not measured
pH:	6.5 at 25 °C Concentration: 100 %

Viscosity

Dynamic viscosity:	105 mPa.s at 25 °C
Kinematic viscosity:	107 mm ² /s at 25 °C

Solubility(ies)

Solubility in Water:	not measured
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Vapor pressure:	21.251 hPa at 21 °C
Relative density:	not measured
Density:	0.98 g/cm ³ at 25 °C
Relative vapor density:	not measured

9.2 Other information

Explosive properties:	not measured
Oxidizing properties:	not oxidizing
Self-ignition:	not measured
Metal Corrosion:	Not corrosive to metals
Evaporation Rate:	not measured

SECTION 10: Stability and reactivity**10.1 Reactivity:** see section "Possibility of hazardous reactions".**10.2 Chemical Stability:** The product is stable under normal conditions.

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10.3	Possibility of hazardous reactions:	No hazardous reactions with proper storage and handling
10.4	Conditions to avoid:	Freezing. direct sunlight
10.5	Incompatible Materials:	Oxidizing agents. Acids. Alkalies.
10.6	Hazardous Decomposition Products:	None with proper storage and handling.

SECTION 11: Toxicological information
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11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Information on likely routes of exposure

Inhalation:	Information on effects are given below.
Skin Contact:	Information on effects are given below.
Eye contact:	Information on effects are given below.
Ingestion:	Information on effects are given below.

Acute toxicity (list all possible routes of exposure)
Oral

Product:	No data available.
Components:	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol	LD 50, Rat, Female, Male, > 5,000 mg/kg
Alcohols, C11-15-secondary, ethoxylated	Not toxic after single exposure, 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, OECD 402
Alcohols, C11-15-secondary, ethoxylated	Not toxic after single exposure, No data available.

Inhalation

Product:	No data available.
Components:	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol	LC 50, Rat, 4 h, > 5 mg/l, Dust and mist Vapour, Not toxic after single exposure, No data available.
Alcohols, C11-15-secondary, ethoxylated	Not toxic after single exposure, Vapour, No data available. Not toxic after single exposure, Dust and mist, 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 name: CARBOWET® GA-211

Product: No data available.
Components:
2,4,7,9-Tetramethyldec-5- Not irritating, OECD 404, Rabbit, 4 h
yne-4,7-diol
Alcohols, C11-15- No data available.
secondary, ethoxylated

Serious Eye Damage/Eye Irritation

Product: No data available.
Components:
2,4,7,9-Tetramethyldec-5- Risk of serious damage to eyes., US-EPA-method, Rabbit
yne-4,7-diol
Alcohols, C11-15- Irritating.
secondary, ethoxylated

Respiratory or Skin Sensitization

Product: No data available.
Components:
2,4,7,9-Tetramethyldec-5- Local Lymph Node Assay (LLNA), OECD 429, Mouse, Skin sensitizer
yne-4,7-diol
Alcohols, C11-15- No data available.
secondary, ethoxylated

Carcinogenicity

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

Germ Cell Mutagenicity

No data available.

In vitro

Product: No data available.
Components:
2,4,7,9-Tetramethyldec-5- Ames test, OECD 471: , negative, Own study
yne-4,7-diol Chromosomal aberration, OECD 473: , negative, Own study
gene mutation test, OECD 476: , negative, Own study

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

In vivo

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

Reproductive toxicity

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

Specific Target Organ Toxicity - Single Exposure

Product name: CARBOWET® GA-211

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
Other information
Product: No data available.

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 OECD 203
 LC 50, Cyprinus carpio, 96 h, 42 mg/l OECD 203
 NOEC, Cyprinus carpio, 96 h, 10 mg/l OECD 203
 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 OECD 202
 EC 50, Daphnia magna, 48 h, 91 mg/l OECD 202
 NOEC, Daphnia magna, 48 h, 43 mg/l OECD 202
 Alcohols, C11-15-secondary, ethoxylated No data available.

Toxicity to Aquatic Plants
Product: No data available.

Components:

2,4,7,9-Tetramethyldec-5- EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 15 mg/l (OECD

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yne-4,7-diol	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-yne-4,7-diol	EC 50, activated sludge, 3 h, Approximate, 630 mg/l, OECD 209
Alcohols, C11-15-secondary, ethoxylated	No data available.

Toxicity to soil dwelling organisms

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 terrestrial organisms

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.

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.
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Product name: CARBOWET® GA-211

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.

Toxicity to soil dwelling organisms**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 terrestrial organisms**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.

12.2 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.

12.3 Bioaccumulative potential**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:** not measured**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol 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.

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12.5 Results of PBT and vPvB assessment:

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.

12.6 Other adverse effects:

Other hazards
Product: Do not allow to enter soil, waterways or waste water canal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.
Disposal methods: In accordance with local authority regulations, take to special waste incineration plant
Contaminated Packaging: 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

Product name: CARBOWET® GA-211**15.2 Chemical safety assessment:** No chemical safety assessment was carried out for this product.**International regulations****Montreal protocol**

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

SECTION 16: Other information**Abbreviations and acronyms:**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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]**

Product name: CARBOWET® GA-211

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 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.

Disclaimer: This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.