



**Safety Data Sheet**  
**according to Regulation (EC)**  
**No. 2020/878**

**SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking**

<b>1.1 Product Identifier</b>	8163	<b>Revision Date:</b>	03/06/2024
<b>Product Name:</b>	CARBOGUARD AQP FC PART A	<b>Supersedes Date:</b>	02/04/2024
		<b>Version Number:</b>	6

**UFI Code:** A5E0-R05U-U00R-1UFA

**Contain nanoform:** No

**1.2 Relevant identified uses of the substance or mixture and uses advised against**      Hardener for 2 components coatings - Industrial use.  
 Advised against: Home DIY applications.  
 Advised against: others than recommended

**Product to be mixed with:** CARBOGUARD AQP PART B  
**Mixing ratio by volume Part A/  
 Part B:** 1:1

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

**Manufacturer:** Carboline Norge AS  
 Postboks 593  
 3412 Lierstranda  
 Norway

Regulatory / Technical Information:  
 +47 32 85 73 00  
 +47 32 85 74 00

**Datasheet Produced by:** Larsen, Beate - hms@carboline.com

**1.4 Emergency telephone number:** CHEMTREC +1 703 5273887 (Outside US)  
 112 (24/7)  
 Croatia +3851 2348 342 (24/7 in Croatian and English)  
 Iceland 112 (24/7)  
 Malta 112 (24/7)

**SECTION 2: Hazards Identification**

**2.1 Classification of the substance or mixture**

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

EU Other

EUH211

Acute Tox. 4 Oral  
Skin Corr. 1A  
Skin Sens. 1

H302  
H314-1A  
H317

## 2.2 Label elements

### Symbol(s) of Product



### Signal Word

Danger

### Named Chemicals on Label

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

#### HAZARD STATEMENTS

EU Other	EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Acute Tox. 4 Oral	H302	Harmful if swallowed.
Skin Corr. 1A	H314-1A	Causes severe skin burns and eye damage.
Skin Sens. 1	H317	May cause an allergic skin reaction.

#### PRECAUTION PHRASES

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	Wear respiratory protection.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.

## 2.3 Other hazards

No Information

### Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

#### Endocrine disrupting properties - Toxicity

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

#### Endocrine disrupting properties - Ecotoxicity

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

## SECTION 3: Composition/Information On Ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

#### Hazardous ingredients

<u>Name According to EEC</u> <u>EINECS No.</u> <u>CAS-No.</u> <u>REACH Reg No.</u> <u>Index Number</u>	%	<u>Classifications</u>	SCL Value ATE Value M-Factor
2,2,4(or 2,4,4)- trimethylhexane-1,6-diamine - 25513-64-8 01-2119560598-25 -	25 - <50	H302-314-317 Acute Tox. 4 Oral, Skin Corr. 1A, Skin Sens. 1A	SCL: -  ATE: 910 mg/kg (oral)  M-Factor: (acute)  M-Factor: (chronic)
titanium dioxide 236-675-5 13463-67-7 01-2119489379-17 -	10 - <25		SCL: -  ATE: -  M-Factor: (acute)  M-Factor: (chronic)
polytetrafluoroethylene 618-337-2 9002-84-0 - 650-015-00-7	1.0 - <2.5	H319 Eye Irrit. 2	SCL: -  ATE: -  M-Factor: (acute)  M-Factor: (chronic)

<p>4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, 500-101-4</p> <p>38294-64-3</p> <p>01-2119965165-33</p> <p>-</p>	0.1 - <1.0	<p>H314-317-412</p> <p>Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1</p>	<p><b>SCL:</b></p> <p><b>ATE:</b></p> <p><b>M-Factor: (acute)</b></p> <p><b>M-Factor: (chronic)</b></p>	-
<p>trimethylolpropane</p> <p>-</p> <p>77-99-6</p> <p>-</p> <p>-</p>	0.1 - <1.0	<p>H361fd</p> <p>Repr. 2</p>	<p><b>SCL:</b></p> <p><b>ATE:</b></p> <p><b>M-Factor: (acute)</b></p> <p><b>M-Factor: (chronic)</b></p>	-

**Remarks:** CAS No 13463-67-7: Note 10

**Additional Information:** The text for CLP Hazard Statements shown above (if any) is given in Section 16.

## SECTION 4: First-aid Measures

### 4.1 Description of First Aid Measures

**GENERAL NOTES:** Show this safety data sheet to the doctor in attendance.

**AFTER INHALATION:** Move to fresh air. Give oxygen or artificial respiration if needed. When risk of unconsciousness, place and transport the victim in secured recovery position. Provide fresh air, rest and warmth. Call a physician immediately.

**AFTER SKIN CONTACT:** Use a mild soap if available. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Do not use solvent or thinners to clean skin.

**AFTER EYE CONTACT:** Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.

**AFTER INGESTION:** Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously: Keep head below hips to prevent aspiration of stomach vomit into lungs. Provide fresh air, rest and warmth.

**Self protection of the first aider:**

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Harmful if swallowed. Causes burns. May cause sensitization by skin contact. Causes serious eye damage.

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

Treat symptomatically.

Immediate medical attention is required.

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

When symptoms persist or in all cases of doubt seek medical advice.

## SECTION 5: Firefighting Measures

### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam, Water Fog

**FOR SAFETY REASONS NOT TO BE USED:** Alcohol, Alcohol based solutions, any other media not listed above.

Do not use a solid water stream as it may scatter and spread fire.

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

Heating or fire conditions liberates toxic gas. As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Vapours may form explosive mixtures with air.

Solvent vapours are heavier than air and may spread along floors and ignite.

### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Keep containers and surroundings cool with water spray.

## SECTION 6: Accidental Release Measures

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

#### 6.1.1 For non-emergency personnel

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.

#### 6.1.2 For emergency responders

See Section 7, 8 and 10 for further information.

### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

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

Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Clean with detergents. Avoid solvents.

### 6.4 Reference to other sections

Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 8 and 13 for further information.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Open drum carefully as content may be under pressure. Do not breathe vapours or spray mist. Use only explosion-proof equipment. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Apply technical measures to comply with the occupational exposure limits (see section 8). Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

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

**CONDITIONS TO AVOID:** Avoid heat, sparks, flames and other ignition sources.

**STORAGE CONDITIONS:** Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Keep container closed. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in upright position only. Storage of corrosive material. Store away from: oxidising materials, acids, and alkalis.

### 7.3 Specific end use(s)

The mixing and application to be in accordance with the technical data sheets.

**SECTION 8: Exposure Controls/Personal Protection**

**8.1 Control parameters**

**Ingredients with Occupational Exposure Limits (EU)**

<u>Name</u>	<u>CAS-No.</u>	<u>LTEL ppm</u>	<u>STEL ppm</u>	<u>STEL mg/m3</u>	<u>LTEL mg/m3</u>
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	25513-64-8				
titanium dioxide	13463-67-7				
polytetrafluoroethylene	9002-84-0				
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane,	38294-64-3				
trimethylolpropane	77-99-6				

<u>Name</u>	<u>CAS-No.</u>	<u>OEL Note</u>
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	25513-64-8	
titanium dioxide	13463-67-7	
polytetrafluoroethylene	9002-84-0	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane,	38294-64-3	
trimethylolpropane	77-99-6	

**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation. Annotations: Carc = Capable of causing cancer and/or heritable genetic damage, Sen = Capable of causing occupational asthma, Sk = Can be absorbed through the skin.

**Chemical Name:**

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

**EC No.:** - **CAS-No.:** 25513-64-8

**DNELs - Derived no effect level**

Route of Exposure	<b>Workers</b>				<b>Consumers</b>			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							0.05 mg/kg
Inhalation								
Dermal								

**PNEC's - Predicted no effect concentration**

	PNEC
Environmental protection target	
Fresh water	0.102 mg/L
Fresh water sediments	0.662 mg/kg
Marine water	0.01 mg/L
Marine sediments	0.062 mg/kg
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	
Air	

**Chemical Name:**

titanium dioxide

**EC No.:**

236-675-5

**CAS-No.:**

13463-67-7

**DNELs - Derived no effect level**

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required						10 mg/m <sup>3</sup>	700 mg/kg/ bw/ day
Inhalation			10 mg/m <sup>3</sup>					
Dermal								

**PNEC's - Predicted no effect concentration**

Environmental protection target	PNEC
Fresh water	0.127 mg/L
Fresh water sediments	1000 mg/kg dw
Marine water	1 mg/L
Marine sediments	100 mg/kg dw
Food chain	1667 mg/kg (oral)
Microorganisms in sewage treatment soil (agricultural)	100 mg/kg
Air	100 mg/kg dw

**Chemical Name:**

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane,

**EC No.:**

500-101-4

**CAS-No.:**

38294-64-3

**DNELs - Derived no effect level**

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							0.05 mg/m <sup>3</sup>
Inhalation				0.493 mg/m <sup>3</sup>				0.074 mg/m <sup>3</sup>
Dermal				0.14 mg/kg				0.05 mg/m <sup>3</sup>

**PNEC's - Predicted no effect concentration**

Environmental protection target	PNEC
Fresh water	0.011 mg/L
Fresh water sediments	4320 mg/kg
Marine water	0.001 mg/L
Marine sediments	432 mg/kg
Food chain	
Microorganisms in sewage treatment soil (agricultural)	864 mg/kg
Air	

**8.2 Exposure controls****Personal Protection**

**RESPIRATORY PROTECTION:** Use compressed air or fresh air breathing apparatus in closed compartments. Wear respiratory protection with combination filter (dust and gas filter, EN 14387:2004+A1:2008) during spraying operations: Gas filter type A2 (organic substances). Dust filter P3 (for fine dust). When working in confined or poorly ventilated spaces, a battery powered assisted air-fed mask must be used.

**EYE PROTECTION:** Face-shield. Safety glasses with side-shields conforming to EN166.

**HAND PROTECTION:** Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Use chemical resistant gloves and lotions and barrier creams to prevent drying of the skin. Protective gloves complying with EN 374: Butyl rubber. Nitril rubber. Recommended glove material for mixed product: Protective gloves complying with EN 374: Butyl rubber. Nitril rubber. Thickness  $\geq$  0,5 mm; breakthrough time  $\geq$  480 min.

**BODY PROTECTION:** Long sleeved clothing.

Remove and wash contaminated clothing before re-use.

**OTHER PROTECTIVE EQUIPMENT:** Protective suit. Ensure that eyewash stations and safety showers are close to the workstation location.

**ENGINEERING CONTROLS:** Ensure adequate ventilation, especially in confined areas.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Colour	Green / White
Physical State	LIQUID
Odor	Amine
Odor threshold	Not determined
pH	Alkaline
Melting point / freezing point (°C)	Not determined
Boiling point or initial boiling point and boiling range (°C)	>200
Flash Point, (°C)	>200
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Lower and upper explosive limit	Not determined
Vapour Pressure	Not determined
Relative vapour density	Not determined
Density and/or relative density	1.05 - 1.15
Solubility in / Miscibility with water	Negligible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	Not applicable
Decomposition temperature (°C)	Not determined
Kinematic viscosity	20,000 - 30,000 cP
Particle characteristics	Not applicable to liquids

### 9.2 Other information

VOC Content g/l: 9

Grams of VOC per liter of coating product as applied per ISO 11890-1 and/or ISO 11890-2.

Specific Gravity (g/cm<sup>3</sup>) 1.11

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

No reactivity hazards known under recommended storage and use conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No reactivity hazards known under recommended storage and use conditions.



**10.4 Conditions to avoid**

Avoid heat, sparks, flames and other ignition sources.

**10.5 Incompatible materials**

Keep away from strong oxidising agents and strongly acid or alkaline materials.

**10.6 Hazardous decomposition products**

In case of fire or hot work operations, hazardous decomposition products may be formed such as: Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), aliphatic amines, aldehydes.

## SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute Toxicity:**

**Oral LD50:** No information available on the product itself as the product is not tested.

**Inhalation LC50:** No information available on the product itself as the product is not tested.

**Dermal LD50:** No information available on the product itself as the product is not tested.

**Irritation:** No information available.

**Corrosivity:** Corrosive to eyes and skin.

**Sensitization:** May cause an allergic skin reaction.

**Repeated dose toxicity:** No information available.

**Carcinogenicity:** No information available.

**Mutagenicity:** No information available.

**Toxicity for reproduction:** No information available.

**STOT-single exposure:** No information available.

**STOT-repeated exposure:** No information available.

**Aspiration hazard:** Swallowing concentrated chemical may cause severe internal injury

**If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:**

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>	<u>Gas LC50</u>	<u>Dust/Mist LC50</u>
13463-67-7	titanium dioxide	>5000 mg/kg (oral-rat)	10000 mg/kg	No information	No information	>6.82 mg/L (inh- rat-4h)

**Additional Information:**

Corrosive - causes irreversible eye damage. Chronic exposure causes drying effect on the skin and eczema. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Corrosive to skin. Inhalation of vapour or mist can cause headache, nausea, irritation of nose, throat, and lungs.

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

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

## SECTION 12: Ecological Information

### 12.1 Toxicity:

EC50 48hr (Daphnia):	No information
IC50 72hr (Algae):	No information
LC50 96hr (fish):	No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB assessment: The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

### 12.6 Endocrine disrupting properties

#### Endocrine disrupting properties - Ecotoxicity

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

12.7 Other adverse effects: No information

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>
13463-67-7	titanium dioxide	>100 mg/l (EC50, 48h, Daphnia magna OECD202)	16 mg/l (EC50, 72h, Pseudokirchnerella subcapitata)	>100 mg/l (EC50, 96h, Oncorhynchus Mykiss OECD203)

## SECTION 13: Disposal Considerations

13.1 **WASTE TREATMENT METHODS:** Do not burn, or use a cutting torch on, the empty drum. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local state, and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems.

**European Waste Code:** 08 01 11\*  
**Packaging Waste Code:** 15 01 10\*

**SECTION 14: Transport Information**

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN-number or ID number</b>	UN3066	UN3066	UN3066	UN3066
<b>14.2 UN proper shipping name</b>	PAINT	PAINT	PAINT	PAINT
<b>14.3 Transport Hazard Class(es)</b>	8	8	8	8
<b>14.4 Packing Group</b>	III	III	III	III
<b>14.5 Enviromental Hazards</b>	Marine pollutant: No	Marine pollutant: No	Marine pollutant: No	Marine pollutant: No

**14.6 Special precautions for user** Not applicable  
**EmS-No.:** F-A, S-B

**14.7 Maritime transport in bulk according to IMO instruments** Not applicable

**SECTION 15: Regulatory Information****15.1 Safety, health and environmental regulations/legislation for the substance or mixture:****National Regulations:**

**Denmark Product Registration Number:** Not available

**Danish MAL Code:** Not available

**Danish MAL Code - Mixture:** Not available

**Sweden Product Registration Number:** Not available

**Norway Product Registration Number:** Not available

**WGK Class:** 3

**Covered by Directive 2012/18/EC (Seveso III):** Not applicable

**Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006:** Entry 3

**Annex XIV - Annex XIV, Regulation (CE) 1907/2006 - Authorisation List:****CAS-No.      Name According to EEC**

Not Applicable

**SVHC - Substances of very high concern (Candidate List - Art. 59 REACH):****CAS-No.      Name According to EEC**

Not Applicable

**15.2 Chemical Safety Assessment:**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**SECTION 16: Other Information****Text for CLP Hazard Statements shown in Section 3 describing each ingredient:**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.

**Reasons for revision**

Changes have been made to Section 11 of the Safety Data Sheet (SDS). Please refer to the Toxicological Information in Section 11 of this SDS. Changes have been made to Section 14 of the Safety Data Sheet (SDS). Please refer to the Transport Information in Section 14 of this SDS. Changes have been made to Section 15 of the Safety Data Sheet (SDS). Please refer to the Regulatory Information in Section 15 of this SDS. .

## List of References

This Safety Data Sheet was compiled with data and information from the following sources:

- The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark
- Joint Research Centre in Ispra, Italy
- Regulation (EC) 1272/2008 with subsequent amendments
- Regulation (EC) 1907/2006 with subsequent amendments
- Commission Regulation (EU) 2020/878
- Eu Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification declared in sec. 2.2 is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the composition of the formula.

## Acronym &amp; Abbreviation Key

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m3	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits

VOC Volatile organic compounds  
g/l Grams per liter  
mg/kg milligrams per kilogram  
N/A Not applicable  
LD50 Lethal dose at 50%  
LC50 Lethal concentration at 50%  
EC50 Half maximal effective concentration  
IC50 Half maximal inhibitory concentration  
PBT Persistent bioaccumulative toxic chemical  
vPvB Very persistent and very bioaccumulative  
EEC European Economic Community  
ADR International Transport of Dangerous Goods by Road  
RID International Transport of Dangerous Goods by Rail  
UN United Nations  
IMDG International Maritime Dangerous Goods Code  
IATA International Air Transport Association  
MARPOL International Convention for the Prevention of Pollution From Ships, 1973 as modified  
by the Protocol of 1978  
IBC International Bulk Container  
RTI Respiratory Tract Irritation  
NE Narcotic Effects  
IMO International Maritime Organization  
Note P: The classification as a carcinogen or mutagen need not apply; the substance contains  
less than 0,1 % w/w benzene  
Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder  
form containing 1 % or more of titanium dioxide which is in the form of or  
incorporated in particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ .

For further information, please contact: Regulatory Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.