

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

### 1.1. Product identifier

Product form : Mixture  
 Product name : Carlin PowderPlus  
 UFI : 4WV0-80KF-K006-PJ85

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use  
 Function or use category : Cleaning/washing agents and additives

#### 1.2.2. Uses advised against

No additional information available

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

Synerlogic B.V.  
 Graafsingel 18-22  
 6921 RT Duiven  
 Nederland  
 T +31 (0) 26 - 3186700  
[PNSHEQ@synerlogic.nl](mailto:PNSHEQ@synerlogic.nl)

### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD 2090 Msida	+356 2545 6508	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 1 H318  
 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract  
 irritation H335  
 Hazardous to the aquatic environment — Chronic Hazard, Category 4 H413  
 Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes serious eye damage. May cause long lasting harmful effects to aquatic life.

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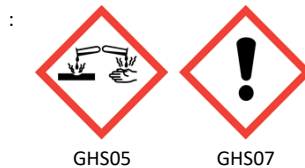
## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05

GHS07

Signal word (CLP)

: Danger

Contains

: Tetranatriumpyrophosphate aqua free , Trisodium phosphate dodecahydrate, Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts

Hazard statements (CLP)

: H318 - Causes serious eye damage.  
H335 - May cause respiratory irritation.  
H413 - May cause long lasting harmful effects to aquatic life.

Precautionary statements (CLP)

: P261 - Avoid breathing vapours, gas, mist, spray, fume, dust.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, face protection, protective clothing, eye protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium carbonate	CAS-No.: 497-19-8 EC-No.: 207-838-8 EC Index-No.: 011-005-00-2 REACH-no: 01-2119485498-19	5 – 10	Eye Irrit. 2, H319
Tetranatriumpyrophosphate aqua free	CAS-No.: 7722-88-5 EC-No.: 231-767-1 REACH-no: 01-2119489794-17	5 – 10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Trisodium phosphate dodecahydrate	CAS-No.: 10101-89-0 EC-No.: 231-509-8 REACH-no: 01-2119489800-32	< 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
DECETH-4	CAS-No.: 26183-52-8 REACH-no: Polymer	< 5	Eye Irrit. 2, H319
Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts	CAS-No.: 68411-30-3 EC-No.: 270-115-0 REACH-no: 01-2119489428-22	< 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412

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### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Sodium carbonate	CAS-No.: 497-19-8 EC-No.: 207-838-8 EC Index-No.: 011-005-00-2 REACH-no: 01-2119485498-19	( 5 ≤C < 100) STOT SE 3, H335

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam.
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### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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### 5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
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#### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

#### Trisodium phosphate dodecahydrate (10101-89-0)

##### DNEL/DMEL (Workers)

Long-term - systemic effects, inhalation	4.07 mg/m <sup>3</sup>
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##### DNEL/DMEL (General population)

Long-term - systemic effects, inhalation	3.04 mg/m <sup>3</sup>
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#### Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)

##### DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	170 mg/kg bodyweight/day
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Long-term - systemic effects, inhalation	12 mg/m <sup>3</sup>
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Long-term - local effects, inhalation	12 mg/m <sup>3</sup>
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##### DNEL/DMEL (General population)

Acute - local effects, inhalation	3 mg/m <sup>3</sup>
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Long-term - systemic effects, oral	0.85 mg/kg bodyweight/day
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Long-term - systemic effects, inhalation	3 mg/m <sup>3</sup>
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### Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)

Long-term - systemic effects, dermal 85 mg/kg bodyweight/day

#### PNEC (Water)

PNEC aqua (freshwater) 0.268 mg/l

PNEC aqua (marine water) 0.0268 mg/l

#### PNEC (Sediment)

PNEC sediment (freshwater) 8.1 mg/kg dwt

PNEC sediment (marine water) 8.1 mg/kg dwt

#### PNEC (Soil)

PNEC soil 35 mg/kg dwt

#### PNEC (STP)

PNEC sewage treatment plant 3.43 mg/l

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

#### Eye protection

Type	Field of application	Characteristics	Standard
Safety glasses	Droplet, Fine dust, Dust	With side shields	EN 166

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

protective gloves

#### Hand protection

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Neoprene rubber (HNBR)	6 (> 480 minutes)	0,25 mm		EN ISO 374
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,31 mm		EN ISO 374

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### Other skin protection

#### Materials for protective clothing

Condition	Material	Standard
Good resistance:	Synthetic material	EN 13034

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Respiratory protection

Device	Filter type	Condition	Standard
Reusable half mask	Type P2, Type P3	Protection for Solid particles, Protection for Liquid particles	EN 149

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Colour	: white.
Odour	: characteristic.
Odour threshold	: No data available
pH	: 9.8
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: 23 hPa
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: completely miscible.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

#### Tetranatriumpyrophosphate aqua free (7722-88-5)

LD50 oral rat	1624 mg/kg
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#### Sodium carbonate (497-19-8)

LD50 oral	4090 mg/kg bodyweight
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LD50 dermal	> 2000 mg/kg bodyweight
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LC50 Inhalation - Rat (Dust/Mist)	2300 mg/l
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#### Trisodium phosphate dodecahydrate (10101-89-0)

LD50 oral rat	> 2000 mg/kg
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LD50 dermal rat	> 2000 mg/kg
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LC50 Inhalation - Rat	> 0.83 mg/l/4h
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#### Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)

LD50 oral	1080 mg/kg bodyweight
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LD50 dermal	> 2000 mg/kg bodyweight
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Skin corrosion/irritation : Not classified  
pH: 9.8

Serious eye damage/irritation : Causes serious eye damage.  
pH: 9.8

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

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STOT-single exposure : May cause respiratory irritation.

### Trisodium phosphate dodecahydrate (10101-89-0)

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

### Carclin PowderPlus

Viscosity, kinematic : Not applicable

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : May cause long lasting harmful effects to aquatic life.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : May cause long lasting harmful effects to aquatic life.

### Sodium carbonate (497-19-8)

LC50 - Fish [1] : 300 mg/l

EC50 - Other aquatic organisms [1] : 265 mg/l waterflea

### Trisodium phosphate dodecahydrate (10101-89-0)

EC50 - Crustacea [1] : > 100 mg/l

EC50 72h - Algae [1] : > 100 mg/l

### Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)

LC50 - Fish [1] : 1.67 mg/l

EC50 - Other aquatic organisms [1] : 2.9 mg/l waterflea

EC50 - Other aquatic organisms [2] : 127.9 mg/l

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

### Sodium carbonate (497-19-8)

Partition coefficient n-octanol/water (Log Pow) : -6.19

### Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)

Partition coefficient n-octanol/water (Log Pow) : 3.32

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available



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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### SECTION 14: Transport information

In accordance with ADR

#### 14.1 UN number

UN-No. (ADR) : Not applicable

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

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

##### ADR

Transport hazard class(es) (ADR) : Not applicable

#### 14.4. Packing group

Packing group (ADR) : Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment : No

Other information : No supplementary information available

#### 14.6. Special precautions for user

##### Overland transport

No data available

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list  $\geq 0,1\%$  / SCL

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

##### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

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### Netherlands

ABM category	: A(4) - low hazard for aquatic organisms, may have longterm hazardous effects in aquatic environment
SZW-lijst van kankerverwekkende stoffen	: Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts is listed
SZW-lijst van mutagene stoffen	: Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: None of the components are listed

### Switzerland

Storage class (LK)	: LK 11/13 - Solids
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## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.

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### Full text of H- and EUH-statements:

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.