

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 18-5-2020 Revision date: 7-5-2020 Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture

Product name : Carclin Tank Polysolve

#### 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

#### 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

#### 1.4. Emergency telephone number

.4. Elliel gency 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 Msida	+356 2545 6504	
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] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Skin corrosion/irritation, Category 1 H314 Serious eye damage/eye irritation, Category 1 H318

Full text of H statements: see section 16

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

Causes severe skin burns and eye damage. Causes serious eye damage.

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]Extra labelling to displayExtra classification(s) to display

Hazard pictograms (CLP)



GHS05

Signal word (CLP) Danger

Hazardous ingredients 2-Aminoethanol; Potassium hydroxide

Hazard statements (CLP) H314 - Causes severe skin burns and eye damage.

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Precautionary statements (CLP)

P260 - Do not breathe vapours, mist.

P280 - Wear protective clothing, eye protection, face protection.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

 $P303 + P361 + P353 - IF\ ON\ SKIN\ (or\ hair): Take\ off\ immediately\ all\ contaminated\ clothing.\ Rinse$ 

skin with water or shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

#### 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]
2-Aminoethanol	(CAS-No.) 141-43-5 (EC-No.) 205-483-3 (REACH-no) 01-2119486455-28	5 - 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Chronic 3, H412
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	(CAS-No.) 111-76-2 (EC-No.) 203-905-0 (EC Index-No.) 603-014-00-0 (REACH-no) 01-2119475108-36	5 - 10	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315
Sodium-p-cumenesulphonate	(CAS-No.) 15763-76-5 (EC-No.) 239-854-6 (REACH-no) 01-2119489411-37	< 10	Eye Irrit. 2, H319
	(CAS-No.) 122-99-6 (EC-No.) 204-589-7 (EC Index-No.) 603-098-00-9	5 - 10	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Potassium hydroxide	(CAS-No.) 1310-58-3 (EC-No.) 215-181-3 (EC Index-No.) 019-002-00-8 (REACH-no) 01-2119487136-33	< 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Met. Corr. 1, H290

# **Specific concentration limits:**

Name	Product identifier	Specific concentration limits	
Potassium hydroxide	(CAS-No.) 1310-58-3	( 0,5 = <c 100)="" 2,="" <="" eye="" h319<="" irrit.="" td=""></c>	
	(EC-No.) 215-181-3	( 0,5 = <c 100)="" 2,="" <="" h315<="" irrit.="" skin="" td=""></c>	
	(EC Index-No.) 019-002-00-8	( 2 = <c 100)="" 1b,="" <="" corr.="" h314<="" skin="" td=""></c>	
	(REACH-no) 01-2119487136-33	(5 = <c 100)="" 1a,="" <="" corr.="" h314<="" skin="" td=""></c>	

Full text of H-statements: see section 16

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#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately. Get medical advice/attention if you feel unwell. IF exposed or concerned: Get medical advice/attention. 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.

First-aid measures after skin contact : Rinse skin with water/shower. Wash skin with plenty of water. Take off contaminated clothing.

Take off immediately all contaminated clothing. Call a physician immediately. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical

advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately. 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 skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

#### 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. Carbon dioxide.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

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.

### **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 contact with skin and eyes. Do not breathe

dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray.

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".

#### **6.2. Environmental precautions**

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material.

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 : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe

dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Avoid breathing

dust/fume/gas/mist/vapours/spray.

Hygiene measures : Wash contaminated clothing before reuse. 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 cool.

#### 7.3. Specific end use(s)

No additional information available

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# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

2-Aminoethanol (141-43-5)		
Germany	TRGS 910 Acceptable concentration notes	
Netherlands	Local name	2-Aminoethanol
Netherlands	Grenswaarde TGG 8H (mg/m³)	2,5 mg/m³
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	7,6 mg/m <sup>3</sup>
Netherlands	Remark (MAC)	Н

#### 8.2. Exposure controls

#### **Appropriate engineering controls:**

nsure good ventilation	of the work st	tation.					
Materials for protect	ive clothing:						
Condition Material Standard							
Good resistance:		Synthetic material		EN 13034	EN 13034		
Hand protection:							
Protective gloves							
Туре	Material		Permeation	Thickness (mm)	Penetration Standard		
Reusable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	>0.31mm			EN ISO 374, EN 388
Eye protection:							
Safety glasses							
Type Use Characteristics Standard							
Safety glasses Droplet With side shields EN 166							
Skin and body prote	ction:						
Wear suitable protect	ive clothing						
Respiratory protecti	on:						
In case of insufficient	ventilation, w	ear suitable re	espiratory equipment				

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



Device

Reusable half mask





Filter type

ABEK-P3

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Condition

Liquid particles

Vapour protection, Protection for

Standard

EN 140, EN 14387

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#### **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 : Liquid

Colour : clear. Colourless.

Odour : characteristic.

Odour threshold : No data available

pH : 11,8

Relative evaporation rate (butylacetate=1) No data available Melting point Not applicable Freezing point No data available **Boiling point** No data available Flash point No data available Auto-ignition temperature No data available No data available Decomposition temperature Flammability (solid, gas) Not applicable Vapour pressure No data available Relative vapour density at 20  $^{\circ}\text{C}$ No data available Relative density No data available 1,06 (1,05 - 1,07) g/cm<sup>3</sup> Density Solubility No data available Log Pow No data available No data available Viscosity, kinematic Viscosity, dynamic No data available **Explosive properties** No data available No data available Oxidising properties **Explosive limits** No data available

#### 9.2. Other information

No additional information available

### **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

2-Aminoethanol (141-43-5)	
LD50 oral rat	1089 mg/kg

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LD50 dermal rabbit	2504 mg/kg
LC50 inhalation rat (mg/l)	1,4 mg/l/4h

Potassium hydroxide (1310-58-3)	
LD50 oral	333 mg/kg bodyweight

Sodium-p-cumenesulphonate (15763-76-5)	
LD50 oral rat	> 7000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 11,8

Serious eye damage/irritation : Causes serious eye damage.

pH: 11,8

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

#### SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

2-Aminoethanol (141-43-5)		
LC50 fish 1	349 mg/l (Cyprinus carpio)	
EC50 Daphnia 1	65 mg/l	
EC50 72h algae (1)	1 mg/l (Pseudokirchneriella subcapitata)	

Potassium hydroxide (1310-58-3)	
LC50 fish 1	80 mg/l

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

Potassium hydroxide (1310-58-3)		
Log Pow	-3,88	

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

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#### 12.6. Other adverse effects

No additional information available

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

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

#### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR)

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) CAUSTIC ALKALI LIQUID, N.O.S.

Transport document description (ADR) UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide; 2-Aminoethanol), 8, II, (E)

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

ADR

Transport hazard class(es) (ADR) 8 Danger labels (ADR) 8



UN 1719

14.4. Packing group

Packing group (ADR) П :

#### 14.5. Environmental hazards

Dangerous for the environment :

Other information No supplementary information available

#### 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) **C**5 Special provisions (ADR) 274 Limited quantities (ADR) 1l Excepted quantities (ADR) E2

Packing instructions (ADR) P001, IBC02 Mixed packing provisions (ADR) MP15 Portable tank and bulk container instructions (ADR) T11 Portable tank and bulk container special provisions TP2, TP27

(ADR)

Tank code (ADR) L4BN Vehicle for tank carriage ΑТ Transport category (ADR) 2 Hazard identification number (Kemler No.) 80

Orange plates

80

Tunnel restriction code (ADR) Ε 2R

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

Not applicable

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#### **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

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.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

#### 15.1.2. National regulations

#### Germany

Reference to AwSV : Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex

1)

12th Ordinance Implementing the Federal Immission

Control Act - 12.BImSchV

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

#### **Netherlands**

Waterbezwaarlijkheid : 9 - Harmful to aquatic organisms

Saneringsinspanningen : B - Lozing minimaliseren; toepassen van best uitvoerbare technieken

SZW-lijst van kankerverwekkende stoffen : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed NIET-limitatieve lijst van voor de voortplanting giftige : None of the components are listed

stoffen – Borstvoeding

storien – Borstvoeding

None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige :

stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige :

stoffen – Ontwikkeling

None of the components are listed

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### SECTION 16: Other information

Abbreviations and acronyms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
РВТ	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4

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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
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

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

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