

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 18-3-2020 Revision date: 18-2-2020 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 Alu Extreme

## 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 22

6921 RT Duiven - Nederland

T+31(0)26-3186700

#### 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 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)

Corrosive to metals, Category 1	H290
Acute toxicity (oral), Category 3	H301
Acute toxicity (dermal), Category 2	H310
Acute toxicity (inhalation:dust,mist) Category 2	H330
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

May be corrosive to metals. Fatal in contact with skin. Fatal if inhaled. Toxic if swallowed. 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)



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GHS05 GHS06

Signal word (CLP) : Danger

Hazardous ingredients : phosphoric acid ... %, orthophosphoric acid ... %; Hydrochloric acid ... %; hydrogen fluoride;

Isotridecanol, branched, ethoxylated; Sulfuric acid

Hazard statements (CLP) : H290 - May be corrosive to metals.

H301 - Toxic if swallowed.

H310+H330 - Fatal in contact with skin or if inhaled. H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P260 - Do not breathe vapours, mist, spray.

P280 - Wear protective gloves, protective clothing, face protection, eye protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water or shower.

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, a doctor.

#### 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]
phosphoric acid %, orthophosphoric acid %	(CAS-No.) 7664-38-2 (EC-No.) 231-633-2 (EC Index-No.) 015-011-00-6 (REACH-no) 01-2119485924-24	< 10	Skin Corr. 1B, H314
Hydrochloric acid%	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-01-X (REACH-no) 01-2119484862-27	< 10	Skin Corr. 1B, H314 STOT SE 3, H335 Met. Corr. 1, H290
hydrogen fluoride	(CAS-No.) 7664-39-3 (EC-No.) 231-634-8 (EC Index-No.) 009-002-00-6	< 10	Acute Tox. 2 (Inhalation), H330 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Oral), H300 Skin Corr. 1A, H314
Ammonium chloride	(CAS-No.) 12125-02-9 (EC-No.) 235-186-4 (EC Index-No.) 017-014-00-8 (REACH-no) 01-2119487950-27	< 10	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Isotridecanol, branched, ethoxylated	(CAS-No.) 69011-36-5	< 5	Eye Dam. 1, H318 Aquatic Chronic 3, H412
Sulfuric acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (REACH-no) 01-2119458838-20	< 5	Met. Corr. 1, H290 Skin Corr. 1A, H314

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Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
phosphoric acid %, orthophosphoric acid %	(CAS-No.) 7664-38-2 (EC-No.) 231-633-2 (EC Index-No.) 015-011-00-6 (REACH-no) 01-2119485924-24	( 10 = <c 2,="" 25)="" <="" h315<br="" irrit.="" skin="">( 10 =<c 2,="" 25)="" <="" eye="" h319<br="" irrit.="">( 25 =<c 100)="" 1b,="" <="" corr.="" h314<="" skin="" td=""></c></c></c>	
Hydrochloric acid%	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-01-X (REACH-no) 01-2119484862-27	( 10 = <c 100)="" 2,="" <="" h315<br="" irrit.="" skin="">( 10 =<c 100)="" 2,="" <="" eye="" h319<br="" irrit.="">( 10 =<c 100)="" 3,="" <="" h335<br="" se="" stot="">( 25 =<c 100)="" 1b,="" <="" corr.="" h314<="" skin="" td=""></c></c></c></c>	

Full text of H-statements: see section 16

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

#### 4.1. Description of first aid measures

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

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory

symptoms: Call a poison center or a doctor. Call a physician immediately. Call a doctor. Call a

poison center or a doctor if you feel unwell.

First-aid measures after skin contact: Wash skin with plenty of water. Take off con

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. Rinse skin with

water/shower.

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. Call a physician immediately. Call a poison center or a doctor if you feel unwell. Do

not induce vomiting.

## 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 : Only qualified personnel equipped with suitable protective equipment may intervene. Do not

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

## 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 : Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Avoid contact

with skin and eyes. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray. 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 in corrosive resistant container with a resistant inner liner. Keep only in original container.

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

Incompatible materials : Metals.

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

No additional information available

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

phosphoric acid %, orthophosphoric acid % (7664-38-2)			
EU	Local name	Orthophosphoric acid	
EU	IOELV TWA (mg/m³)	1 mg/m³	
EU	IOELV STEL (mg/m³)	2 mg/m³	
Germany	TRGS 910 Acceptable concentration notes		
Netherlands	Local name	Fosforzuur	
Netherlands	Grenswaarde TGG 8H (mg/m³)	1 mg/m³	
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	2 mg/m³	

Hydrochloric acid% (7647-01-0)			
Germany	TRGS 910 Acceptable concentration notes		
Netherlands	Grenswaarde TGG 8H (mg/m³)	8 mg/m <sup>3</sup>	
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	15 mg/m <sup>3</sup>	

## 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protective equipment:

Protective clothing. Safety glasses. Gloves.

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Materials for prote	ctive clothing:						
Condition		Material		Standard	Standard		
Good resistance:			Synthetic material		EN 13034	EN 13034	
Hand protection:			-				
Protective gloves							
Туре	ype Material		Permeation	Thickness (mm)	Penetratio	on	Standard
Reusable gloves	Neoprene ri (HNBR)	ubber	6 (> 480 minutes)	0,25 mm			EN ISO 374
Reusable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	> 0,31 mm			EN ISO 374
Eye protection:							
Safety glasses							
Type Use			Characteristics		Standard		
Safety glasses Droplet			With side shields		EN 166		
Skin and body prot	ection:						
Wear suitable protec	ctive clothing						
Respiratory protec	tion:						
[In case of inadequa	te ventilation] w	vear respirato	ory protection.				
Device Filter type		Condition			Standard		
Reusable half mask ABEK-P3			Vapour protection		EN 140, EN 14	1387	

## Personal protective equipment symbol(s):







#### **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 : red.

Odour : characteristic.
Odour threshold : No data available

pH : <1

Relative evaporation rate (butylacetate=1) : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available

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Flash point : >82 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour pressure : 23 hPa

Relative vapour density at 20 °C : No data available Relative density : No data available Density :  $1,182 \, \text{g/cm}^3$ 

Solubility : completely miscible.

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

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

metals.

#### 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) : Toxic if swallowed.

Acute toxicity (dermal) : Fatal in contact with skin.

Acute toxicity (inhalation) : Fatal if inhaled.

ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	50,05 mg/kg bodyweight
ATE CLP (dust,mist)	0,496 mg/l/4h

phosphoric acid %, orthophosphoric acid % (7664-38-2)		
LD50 oral rat	> 1530 mg/kg	
LD50 dermal rabbit	2730 mg/kg	
LC50 inhalation rat (mg/l)	> 850 ml/m <sup>3</sup>	
LC50 inhalation rat (ppm)	>	

Ammonium chloride (12125-02-9)	
LD50 oral	1410 mg/kg bodyweight

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

pH: < 1

Serious eye damage/irritation : Causes serious eye damage.

pH: < 1

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

phosphoric acid %, orthophosphoric acid % (7664-38-2)	
LC50 fish 1	3 - 3,5 mg/l (Gambusia affinis)

Hydrochloric acid% (7647-01-0)		
LC50 fish 1	3,25 mg/l	
EC50 other aquatic organisms 1	4,92 mg/l EC50 waterflea (48 h)	
EC50 other aquatic organisms 2	4,5 mg/l IC50 algea (72 h) mg/l	

Ammonium chloride (12125-02-9)	
LC50 fish 1	123,8 mg/l
EC50 other aquatic organisms 1	0,39 mg/l EC50 waterflea (48 h)
EC50 other aquatic organisms 2	7,16 mg/l IC50 algea (72 h) mg/l

## 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

Ammonium chloride (12125-02-9)	
Log Pow	-4,37

## 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

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

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

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## **SECTION 14: Transport information**

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

14.1. UN number

UN-No. (ADR) UN 2922

14.2. UN proper shipping name

Proper Shipping Name (ADR) CORROSIVE LIQUID, TOXIC, N.O.S.

Transport document description (ADR) UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrofluoric acid, Hydrochloric acid), 8 (6.1), II, (E)

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) 8 (6.1) Danger labels (ADR) 8, 6.1



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) CT1 Special provisions (ADR) 274 Limited quantities (ADR) 1l Excepted quantities (ADR) F2

Packing instructions (ADR) P001, IBC02 Mixed packing provisions (ADR) MP15 Portable tank and bulk container instructions (ADR) T7 Portable tank and bulk container special provisions

(ADR)

Tank code (ADR) L4BN Vehicle for tank carriage ΑT Transport category (ADR) CV13, CV28

Special provisions for carriage - Loading, unloading

and handling (ADR)

Hazard identification number (Kemler No.) 86 :

Orange plates

86

2922

Tunnel restriction code (ADR) Ε EAC code 2X APP code В

## 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

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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) 2, Significantly 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 : Sulfuric acid is 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

NIET-limitatieve lijst van voor de voortplanting giftige :

stoffen – Vruchtbaarheid

None of the components are listed

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

stoffen - Ontwikkeling

#### 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
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	International Air Transport Association
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. 1 (Dermal)	Acute toxicity (dermal), Category 1	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2	
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
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	

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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.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal 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.
H330	Fatal 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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