

Safety Data Sheet

Carrus Cultus GmbH

according to Regulation (EC) No 1907/2006

Aeon Ceramic Coating

Revision date: 20.07.2020 Product code: CCH-011 Page 1 of 11

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

1.1. Product identifier

Aeon Ceramic Coating

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

Use of the substance/mixture

Coating

Uses advised against

Only use for the intended purpose.

1.3. Details of the supplier of the safety data sheet

Company name: Carrus Cultus GmbH Street: Turley-Straße 8 Place: D-68167 Mannheim Telephone: +49 621 483 450 260 e-mail: info@herrenfahrt.com

Contact person: Andreas Werner Telephone: +49 621 483 450 26

e-mail: a.werner@herrenfahrt.com Internet: www.herrenfahrt.com

1.4. Emergency telephone

number:

Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department or the NHS

enquiry service.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2 Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Highly flammable liquid and vapour.

Harmful if swallowed.

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

n-butyl acetate

Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with

3-(triethoxysilyl)-1-propanamine

Signal word: Danger



Safety Data Sheet

Carrus Cultus GmbH

according to Regulation (EC) No 1907/2006

Aeon Ceramic Coating

Revision date: 20.07.2020 Product code: CCH-011 Page 2 of 11

Pictograms:







Hazard statements

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.
H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children. P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P273 Avoid release to the environment.

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.

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/doctor.

P501 Dispose of contents/container according to regional/national regulations. Do not discard with

household waste.

2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	GHS Classification	•			
123-86-4	n-butyl acetate			50 - 100 %	
	204-658-1	607-025-00-1	01-2119485493-29		
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066				
475645-84-2	Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine				
	Flam. Liq. 2, Acute Tox. 4, Skin C	Corr. 1B, Eye Dam. 1, Aquatic Chro	nic 3; H225 H302 H314 H318 H412		
108-88-3	toluene			>=0,3 - <1 %	
	203-625-9	601-021-00-3			
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H225 H361d H315 H336 H373 H304				

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

SECTION 4: First aid measures



Carrus Cultus GmbH

according to Regulation (EC) No 1907/2006

Aeon Ceramic Coating

Revision date: 20.07.2020 Product code: CCH-011 Page 3 of 11

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection!

After inhalation

If irritations or allergic reactions should occur as a consequence of handling the product (particularly if large quantities have been inhaled): Move victim to fresh air. Put victim at rest and keep warm. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

After contact with skin

Remove contaminated, saturated clothing immediately. (caution, fire hazard) After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, consult a physician.

After contact with eyes

Remove contact lenses. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth, spit liquid again. Do NOT induce vomiting. Let water be drunken in little sips (dilution effect). Seek medical attention if problems persist.

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

Causes severe skin burns and eye damage.

irritation, burnes, gastro-intestinal ailment, Spasms, vomiting, Dyspnoea, Nausea,

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

Foam. Carbon dioxide (CO2).

Unsuitable extinguishing media

Water

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide. Carbon dioxide. Irritating/poisonous gasses and vapours.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Protective clothing.

Additional information

Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. Special danger of slipping by leaking/spilling product.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated articles and floor according to the environmental legislation.



Carrus Cultus GmbH

according to Regulation (EC) No 1907/2006

Aeon Ceramic Coating

Revision date: 20.07.2020 Product code: CCH-011 Page 4 of 11

6.4. Reference to other sections

Personal protection equipment: see section 8 Handling and storage: see section 7 For waste disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

When in use in confined, warm rooms: Ensure adequate ventilation.

At the place of work (in production and when refilling): Wear personal protection equipment.

Do not empty into drains; dispose of this material and its container in a safe way.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take action to prevent static discharges.

Vapours may form explosive mixtures with air.

Further information on handling

Remove contaminated, saturated clothing immediately. When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Protect from sunlight and heat sources. Keep only in the original container.

Prevent entry into drains, the aquatic environment or soil.

Hints on joint storage

Keep away from: heat. Oxidizing agents. ignition sources. Water.

7.3. Specific end use(s)

Coating

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
108-88-3	Toluene	50	191		TWA (8 h)	WEL
		100	384		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
123-86-4	n-butyl acetate					
Consumer DNEL, acute		inhalation		859,7 mg/m³		
Consumer DNEL, long-term		inhalation		102,34 mg/m³		
Worker DNEL, acute		inhalation		960 mg/m³		
Worker DNEL, long-term		inhalation		480 mg/m³		



Safety Data Sheet

Carrus Cultus GmbH

according to Regulation (EC) No 1907/2006

Aeon Ceramic Coating

Revision date: 20.07.2020 Product code: CCH-011 Page 5 of 11

PNEC values

CAS No	Substance			
Environmental compartment		Value		
123-86-4	23-86-4 n-butyl acetate			
Freshwater 0,18 mg/l		0,18 mg/l		
Marine water 0,018		0,018 mg/l		
Freshwater sediment 0,9		0,981 mg/kg		
Marine sediment 0,09		0,0981 mg/kg		
Micro-organisms in sewage treatment plants (STP) 35,6 n		35,6 mg/l		
Soil 0,0903		0,0903 mg/kg		

Additional advice on limit values

Currently there are no further exposure limits available.

8.2. Exposure controls

Protective and hygiene measures

Consider the usual precautions for handling chemicals. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Protect skin by using skin protective cream. Avoid contact with skin and eyes.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Wear suitable gloves. Suitable material: Rubber. PVC (Polyvinyl chloride). PVA (Polyvinyl alcohol).

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

Skin protection

Under normal usage conditions, not necessary.

Respiratory protection

Within the recommended use and adequate ventilation no respiratory protection is necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: slightly

pH-Value: no data available

Changes in the physical state

Melting point:
Initial boiling point and boiling range:

124 °C
Flash point:

16 °C

Flammability

Solid: no data available
Gas: no data available

Explosive properties

no data available

Lower explosion limits:

Upper explosion limits:

no data available

no data available



Carrus Cultus GmbH

according to Regulation (EC) No 1907/2006

Aeon Ceramic Coating

Revision date: 20.07.2020 Product code: CCH-011 Page 6 of 11

Ignition temperature: 435 °C

Auto-ignition temperature

Solid: no data available
Gas: no data available
Decomposition temperature: no data available

Oxidizing properties

no data available

Vapour pressure:

Density:

no data available

Bulk density:

no data available

no data available

completely miscible

Solubility in other solvents

no data available

Partition coefficient:

Viscosity / dynamic:

No data available

Niscosity / kinematic:

No data available

Napour density:

No data available

Evaporation rate:

No data available

no data available

9.2. Other information

No further information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is rapidly hydrolyzed in the presence of water to: hydrogen, ammonia, siloxanes.

10.2. Chemical stability

The product is stable under normal environmental conditions (room temperature).

10.3. Possibility of hazardous reactions

Reacts with: Water. moisture. Alcohol. Amines.

10.4. Conditions to avoid

Keep away from heat, sparks, flames, hot surfaces and moisture.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

During thermal decomposition, e.g. due to overheating during processing or in the event of fire, harmful gases and vapours may be produced:

Hydrogen. Ammonia

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 1000,0 mg/kg



Carrus Cultus GmbH

according to Regulation (EC) No 1907/2006

Aeon Ceramic Coating

Revision date: 20.07.2020 Product code: CCH-011 Page 7 of 11

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
123-86-4	n-butyl acetate						
	oral	LD50 mg/kg	13100	Rat			
	dermal	LD50 mg/kg	>17600	Rabbit			
	inhalation (4 h) vapour	LC50	>21 mg/l	Rat			
475645-84-2	Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine						
	oral	ATE	500 mg/kg				
108-88-3	toluene						
	oral	LD50	5300-591	Rat			
	dermal	LD50 mg/kg	12200	Rabbit			
	inhalation (4 h) vapour	LC50	28,1 mg/l	Rat			

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (n-butyl acetate)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience

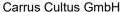
Other observations

Has degreasing effect on the skin.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
123-86-4	n-butyl acetate								
	Acute fish toxicity	LC50	62 mg/l		Leuciscus idus (golden orfe)				
	Acute algae toxicity	ErC50	674 mg/l		Scenedesmus subspicatus				
108-88-3	toluene								
	Acute fish toxicity	LC50	24 mg/l		Oncorhynchus mykiss (Rainbow trout)				
	Acute crustacea toxicity	EC50	11,5 mg/l	48 h	Daphnia magna				





Safety Data Sheet

according to Regulation (EC) No 1907/2006

Aeon Ceramic Coating

Revision date: 20.07.2020 Product code: CCH-011 Page 8 of 11

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-88-3	toluene	2,73

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Small quantities may be diluted with water and washed away. Larger quantities must be disposed properly according to local regulations.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Contaminated packaging

Non-contaminated packages may be recycled.

Recommended cleaning agent: Water.

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 2924

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

(n-butyl acetate)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+8



Classification code: FC
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 338
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 2924

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

n-butyl acetate

14.3. Transport hazard class(es): 3
14.4. Packing group:



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Aeon Ceramic Coating

Revision date: 20.07.2020 Product code: CCH-011 Page 9 of 11

Hazard label: 3+8



Classification code: FC
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number: UN 2924

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

(n-butyl acetate)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+8



Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-C

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2924

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

(n-butyl acetate)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+8



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3

0.5 L

Y340

Excepted quantity:

E2

IATA-packing instructions - Passenger:352IATA-max. quantity - Passenger:1 LIATA-packing instructions - Cargo:363IATA-max. quantity - Cargo:5 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No special precautions known.

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

not applicable

SECTION 15: Regulatory information



Safety Data Sheet

Carrus Cultus GmbH

according to Regulation (EC) No 1907/2006

Aeon Ceramic Coating

Revision date: 20.07.2020 Product code: CCH-011 Page 10 of 11

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 48: toluene

2004/42/EC (VOC): 0%

Additional information

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants: not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

Regulation (EC) No. 648/2004 (Detergents regulation): The surfactants contained in this mixture meet the biodegradability terms, which are defined in Regulation (EC) No 648/2004 on detergents. The documents confirming this are held available for the responsible authorities of the member states; the documents will be provided upon their request or upon direct request of a detergent manufacturer.

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out: n-butyl acetate

SECTION 16: Other information

Changes

Version 1,00 - First Creation - 20.07.2020

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

BImSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act

CAS: Chemical Abstracts Service

DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)

EC: Effective Concentration

EG: European Community (Europäische Gemeinschaft)

EN: European Norm

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

ISO: Norm of the International Standards Organization

CLP: Classification, Labeling, Packaging

IUCLID: International Uniform Chemical Information Database

LC: Lethal concentration

LD: Lethal dose

log Kow: Octanol/water partition coefficient

MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships

OECD: Organisation for Economic Co-operation and Development

PBT: Persistent, bio-cumulative, toxic



Safety Data Sheet

Carrus Cultus GmbH

according to Regulation (EC) No 1907/2006

Aeon Ceramic Coating

Product code: CCH-011 Revision date: 20.07.2020 Page 11 of 11

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

vPvB: very persistent and very bio-cumulative

AwSV: Ordinance on Installations for Handling Substances Hazardous to Water

WGK: German Water Hazard Class

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

TLV: Threshold Limiting Value STOT: Specific Target Organ Toxicity

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Acute Tox. 4; H302	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
STOT SE 3; H336	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)