

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 27.06.2017

V - 3

Revision: 27.06.2017

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

- **1.1 Product identifier**
- **Trade name:** CARSYSTEM CARBO UV Clear
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Not determined
- **Application of the substance / the mixture**
Coating
Acrylic resin
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Vosschemie GmbH
Esinger Steinweg 50
D-25436 Uetersen
Phone: +49 (0)4122 717 0; Fax: +49 (0)4122 717158; info@vosschemie.de
- **Further information obtainable from:**
Abteilung Labor / +49 (0)4122 717 0
s.schaller@vosschemie.de
- **1.4 Emergency telephone number:**
Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland
Phone: +49 (0)551 19240

1.5 Distributed By:

Sydney Automotive Paint and Equipment
Unit A3, 366 Edgar Street
Condell Park
NSW 2200
Australia
Tel: +61 2 9772 9000
Email: reception@sape.com.au

Emergency telephone: AU Poison Information Centre 13 11 26
General medical information: +61 2 9772 9000 (Mon to Fri, 08:00-16:00 AEST)
Transport information: +61 2 9772 9000 (Mon to Fri, 08:00-16:00 AEST)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

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GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS07 GHS09

· **Signal word** Warning

· **Hazard-determining components of labelling:**

ethoxylated trimethylolpropane triacrylate
2-Propenoic acid reaction with pentaerythritol
methacrylic acid, monoester with propane-1,2-diol
pentaerythritol tetrakis (3-mercapto propionate)
ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate

· **Hazard statements**

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P261 Avoid breathing mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face 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.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.
· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

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· Dangerous components:		
	aliphatic urethane acrylate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	50-75%
CAS: 28961-43-5	ethoxylated trimethylolpropane triacrylate ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	10-<20%
CAS: 27813-02-1 EINECS: 248-666-3 Reg.nr.: 01-2119490226-37	methacrylic acid, monoester with propane-1,2-diol ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	3.0-<10%
CAS: 2455-24-5 EINECS: 219-529-5	Tetrahydrofurfurylmethacrylate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	3.0-<10%
CAS: 7473-98-5 EINECS: 231-272-0	2-hydroxy-2-methylpropiophenone ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302	3.0-<10%
CAS: 7575-23-7 EINECS: 231-472-8 Reg.nr.: 01-2119486981-23	pentaerythritol tetrakis (3-mercapto propionate) ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	3.0-<10%
CAS: 84434-11-7 EINECS: 282-810-6 Reg.nr.: 01-2119987994-10	ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate ⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1B, H317	3.0-<10%
CAS: 1245638-61-2 EC number: 629-850-6 Reg.nr.: 01-2119490003-49	2-Propenoic acid reaction with pentaerythritol ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	1.0-<3.0%
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	ethanol ⚠ Flam. Liq. 2, H225	1.0-<3.0%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Immediately remove any clothing soiled by the product.

· **After inhalation:**

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

Use skin protection cream for skin protection.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do NOT induce vomiting.

If symptoms persist consult doctor.

· 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media** **Hazchem: •3Y**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
Carbon monoxide and carbon dioxide
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Avoid contact with the eyes and skin.
Ensure adequate ventilation
Do not inhale gases / fumes / aerosols.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable receptacles.
Dispose of the material collected according to regulations.
Prevent formation of dust.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
- **Information about fire - and explosion protection:** No special measures required.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Protect from frost.
Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.
- **Recommended storage temperature:** +5 °C - < 30 °C
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

64-17-5 ethanol

WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm
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- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Avoid contact with the eyes and skin.
- Keep away from foodstuffs, beverages and feed.
- Do not eat, drink, smoke or sniff while working.
- Store protective clothing separately.
- Immediately remove all soiled and contaminated clothing
- Wash contaminated clothing before reuse.
- Wash hands before breaks and at the end of work.
- Use skin protection cream for skin protection.

· **Respiratory protection:**

- Ensure good ventilation/exhaustion at the workplace.
- Adhere to the workplace limit values and / or other threshold values.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Check the permeability prior to each renewed use of the glove.
- Preventive skin protection by use of skin-protecting agents is recommended.

· **Material of gloves**

- DIN EN 374
- Natural rubber, NR
- Nitrile rubber, NBR

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Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Fluid
Colour:	Transparent
Odour:	Characteristic

· **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

· **Flash point:** Not determined

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

· **Density at 20 °C:** 1.1 g/cm³

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

· **Partition coefficient: n-octanol/water:** Not determined

· **Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No decomposition if used according to specifications.

· **10.2 Chemical stability** No decomposition if used and stored according to specifications.

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- **10.3 Possibility of hazardous reactions** Danger of polymerisation.
- **10.4 Conditions to avoid** Protect from sunlight.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.
Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

7473-98-5 2-hydroxy-2-methylpropiophenone

Oral	LD50	1694 mg/kg (rat) (OECD 423)
Dermal	LD50	6929 mg/kg (rat) (OECD 402)

64-17-5 ethanol

Oral	LD 50	> 5000 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)
Inhalative	LC50 /4h	117 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Subacute to chronic toxicity:** No further relevant information available.
- **Additional toxicological information:** No further relevant information available.
- **Sensitisation**
Sensitisation possible through skin contact.
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
No further relevant information available.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **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.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

7473-98-5 2-hydroxy-2-methylpropiophenone

EC10	450 mg/l (activated sludge) (OECD 209, 3h)
EC50/48h (static)	> 119 mg/l (daphnia magna) (OECD 202)
EC50/72h (static)	1.95 mg/l (desmodesmus subspicatus) (OECD 201)

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EC50/3h	> 1000 mg/l (activated sludge) (OECD 209, aerob)
LC50 (static)	160 mg/l (leuciscus idus) (48h, DIN 38412 No. 15)
64-17-5 ethanol	
EC50	> 10000 mg/l (daphnia magna) (24h)
EC50/48h (static)	2 mg/l (daphnia magna) 5012 mg/l (daphnia)
EC50/96h	675 mg/l (Chlorella vulgaris)
LC50/96h	13000 mg/l (oncorhynchus mykiss) 15300 mg/l (pimephales promelas)

· **12.2 Persistence and degradability** Heavily biodegradable

· **12.3 Bioaccumulative potential**

64-17-5 ethanol

log Pow -0.35

· **Behaviour in environmental systems:**

· **12.4 Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Waste disposal key:**

The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

· **European waste catalogue**

20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
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15 01 02	plastic packaging
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· **Uncleaned packaging:**

· **Recommendation:**

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN1866

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· **14.2 UN proper shipping name**
· **ADR** 1866 RESIN SOLUTION, ENVIRONMENTALLY HAZARDOUS
· **IMDG, IATA** RESIN SOLUTION

· **14.3 Transport hazard class(es)** **Hazchem: •3Y**

· **ADR**



· **Class** 3 Flammable liquids.
· **Label** 3

· **IMDG**



· **Class** 3 Flammable liquids.

· **IATA**



· **Class** 3 Flammable liquids.
· **Label** 3

· **14.4 Packing group**

· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:**

· **Special marking (ADR):** Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Flammable liquids.

· **EMS Number:**

F-E, S-E

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

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)** 5L

· **Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **European regulations**
- **Directive 2004/42/EC** 2004/42/IIB (d) (420) < 350
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category E1** Hazardous to the Aquatic Environment
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

· **Classification according to Regulation (EC) No 1272/2008**

- Skin. Irrit.2,H315
- Skin. Sens.1,H317
- Eye Irrit.2,H319
- Aquatic Acute 1, H400
- Aquatic Chronic 1,H410

Classification procedure

- Calculation method
- Calculation method
- Calculation method
- Calculation method
- Calculation method

· **Department issuing SDS:** Abteilung Labor

· **Contact:** Frau S. Schaller

· **Abbreviations and acronyms:**

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH)

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PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· *** Data compared to the previous version altered.**

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