

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

Printing date 22.04.2013

V - 2


Revision: 22.04.2013

**1 Identification of the substance/mixture and of the company/undertaking**


- **Product identifier**
  - **Trade name:** CARSYSTEM Anti Rust Putty Hardener
  - **Relevant identified uses of the substance or mixture and uses advised against** Not determined
  - **Application of the substance / the preparation** Hardening agent/ Curing agent
  - **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
  - **Emergency telephone number:**  
Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland  
Phone: +49 (0)551 19240, +49 (0)551 383180
- 

**2 Hazards identification**


- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

 Xi; Irritant

R36: Irritating to eyes.

 Xi; Sensitising

R43: May cause sensitisation by skin contact.

 O; Oxidising

R7: May cause fire.

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· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **Label elements**

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**



Xi Irritant  
O Oxidising

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

dibenzoyl peroxide

· **Risk phrases:**

- 7 May cause fire.
- 36 Irritating to eyes.
- 43 May cause sensitisation by skin contact.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 3/7 Keep container tightly closed in a cool place.
- 14 Keep apart from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds (such as accelerator, desiccative, metal soaps). Avoid naked flames, sparks, other ignition sources and sunlight.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 50 Do not mix with accelerators or reducing agents.
- 56 Dispose of this material and its container to hazardous or special waste collection point.

· **Other hazards**

Flammable.  
Risk of fire on contact with combustible substances or other substances effective in promoting the decomposition reaction.  
Fire propagating effect due to oxygen release.  
Thermal decomposition with temperatures above 50 °C (SADT)  
Pls. refer to section 10

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

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



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· <b>Dangerous components:</b>		
CAS: 94-36-0 EINECS: 202-327-6	dibenzoyl peroxide  Xi R36;  Xi R43;  E R3;  O R7  Org. Perox. B, H241;  Eye Irrit. 2, H319;  Skin Sens. 1, H317	25-50%
CAS: 9038-95-3	Propylen oxid ethylene oxide polymer monobutyl ether  Xn R22  Acute Tox. 4, H302	2.5-5%

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

#### 4 First aid measures

· **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.

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

· **After swallowing:** Do not induce vomiting; call for medical help immediately.

· **Information for doctor:**

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

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

#### 5 Firefighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide and carbon dioxide

In case of fire, the product promotes combustion.

May decompose explosively in absence of fire due to formation of vapour-air-mixture.

· **Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

Do not inhale explosion gases or combustion gases.

· **Additional information**

Remove undamaged containers from the danger zone.

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6 Accidental release measures

**· Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Use suitable respiratory protective device in case of insufficient ventilation.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with the eyes and skin.

Keep away from ignition sources.

Pls. refer to section 10

**· 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.

**· Methods and material for containment and cleaning up:**

Do not flush with water or aqueous cleansing agents

Collect with an inert, non-combustible, absorbent material (i.e. sand, diatomaceous earth, acid binder, universal binder).

Do not seal receptacle gas tight.

Dispose contaminated material as waste according to item 13.

Pls. refer to section 10

**· 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.

## 7 Handling and storage

**· Handling:****· Precautions for safe handling**

Keep receptacles tightly sealed.

Open and handle receptacle with care.

Do not return unused material to original containers – decomposition hazard!

Restrict the quantity stored at the work place.

Resistant to inert materials only.

Suitable materials: Stainless steel (DIN 1.4571), PVC, polyethylene, glass-lined apparatus.

Keep apart from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds such as accelerator, desiccative, metal soaps). Avoid naked flames, sparks, other ignition sources and sunlight.

Avoid any direct contact with accelerators.

Weigh out and mix separately when processing polyester resins.

Avoid storage in containers with an airtight closure to prevent hazardous pressure build-up due to an eventual decomposition.

Avoid contact with the eyes and skin.

Ensure good ventilation/exhaustion at the workplace.

Do not inhale gases / fumes / aerosols.

Adhere to the workplace limit values and / or other threshold values.

**· Information about fire - and explosion protection:**

Protect from heat.

Keep ignition sources away - Do not smoke.

Prevent impact and friction.

Thermal decomposition with temperatures above 50 °C under formation of explosive vapours/gases

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Avoid naked flames, sparks, other ignition sources and sunlight.  
Protect against electrostatic charges.  
Anti-explosion protection required  
Fumes can combine with air to form an explosive mixture.  
Fire propagating effect due to oxygen release.  
Keep apart from incompatible substances, dirt and high temperatures.  
Pls. refer to section 10

- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.  
Prevent any seepage into the ground.  
Adhere to the provisions of the Law on Water Protection.  
Use only receptacles specifically permitted for this substance/product.
- **Information about storage in one common storage facility:**  
Keep apart from other chemicals, in particular from accelerators.  
Store away from foodstuffs.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.  
Protect from contamination.  
Store under lock and key and out of the reach of children.
- **Maximum storage temperature:** +25 °C
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

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

- **Control parameters**

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

<b>94-36-0 dibenzoyl peroxide</b>
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WEL (Great Britain)   Long-term value: 5 mg/m <sup>3</sup>
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- **Additional information:** The lists valid during the making were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

- **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A/P2

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· **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

· **Material of gloves**

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.

Synthetic rubber gloves

Neoprene gloves

· **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

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form: Pasty

Colour: Red

· **Odour:** Characteristic· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· **Flash point:** > 50 °C· **Ignition temperature:** Not applicable· **Decomposition temperature:** 50 °C (SADT)· **Self-igniting:** Pls. refer to section 10· **Danger of explosion:** Pls. refer to section 10· **Density at 20 °C:** ~1.2 g/cm<sup>3</sup>· **Solubility in / Miscibility with**

water: Not miscible or difficult to mix.

VOC (EC) 0.00 %

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

## 10 Stability and reactivity

- **Reactivity** No decomposition if used according to specifications.
- **Chemical stability**  
No decomposition if used and stored according to specifications.  
Resistant to inert materials only.  
Thermal decomposition with temperatures above 50 °C (SADT)  
To avoid thermal decomposition do not overheat.  
Suitable materials: Stainless steel (DIN 1.4571), PVC, polyethylene, glass-lined apparatus.
- **Possibility of hazardous reactions**  
Thermal decomposition or direct contact with numerous additives, such as reducing agents (i.e. amine accelerator), heavy metal compounds (in particular cobalt accelerators), acids and alkaline solutions, may lead to hazardous, autoaccelerating decomposition reactions, and possibly, to explosion or fire.
- **Conditions to avoid**  
Protect from heat.  
Avoid naked flames, sparks, other ignition sources and sunlight.
- **Incompatible materials:**  
Keep apart from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds (such as accelerator, desiccative, metal soaps)  
Avoid any direct contact with accelerators.
- **Hazardous decomposition products:**  
Formation of various organic degradation products and inflammable and explosive vapours/gases upon decomposition.  
Danger of forming toxic pyrolysis products.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

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

**94-36-0 dibenzoyl peroxide**

Oral	LD50	>5000 mg/kg (rat)
Inhalative	LC50 /4h	> 24.3 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Subacute to chronic toxicity:** No further relevant information available.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant
- **Sensitisation** May cause sensitisation by skin contact.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
No further relevant information available.

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## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

**94-36-0 dibenzoyl peroxide**

EC50	35 mg/l (bacteria)
EC50/48h	2.91 mg/l (daphnia magna)
LL50/96h	2.0 mg/l (poecilia reticulata)

- **Persistence and degradability** No further relevant information available.

- **Behaviour in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation**

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

Disposal must be made according to official regulations.

Dilute product with suitable inert liquid to a peroxide concentration below 10% and subsequently dispose of according to the refuse disposal act.

- **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**

08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
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- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**

- **ADR**

UN3108

- **UN proper shipping name**

- **ADR**

3108 ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)

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· **Transport hazard class(es)**· **ADR, IMDG, IATA**· **Class**

5.2 Organic peroxides.

· **Label**

5.2

· **Packing group**· **ADR, IMDG, IATA**

Void

· **Special precautions for user**

Warning: Organic peroxides.

· **EMS Number:**F-J,S-R· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **ADR**· **Limited quantities (LQ)**

500 g

· **Tunnel restriction code**

D

### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **National regulations:**· **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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**

H241 Heating may cause a fire or explosion.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

R22 Harmful if swallowed.

R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.

R36 Irritating to eyes.

R43 May cause sensitisation by skin contact.

R7 May cause fire.

· **Department issuing MSDS:** Abteilung Labor· **Contact:** Frau S. Schaller

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**· 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)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*VOC: Volatile Organic Compounds (USA, EU)*

*MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

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

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