

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

CAM Ultra Fine Glazing Putty

Version
1.0AUS

DE / EN

Revision Date:
30.01.2023

Date of last issue: -
Date of first issue: 01.07.2022

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

1.1 Product identifier

Trade name : CAM Ultra Fine Glazing Putty

Product code : CUPS2

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

Use of the Sub-
stance/Mixture : Body filler/stopper

Recommended restrictions
on use : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : Vosschemie GmbH
Esinger Steinweg 50
25436 Uetersen
Germany

info@vosschemie.de

Telephone : 04122 717 0
Telefax : 04122 717158

Responsible Department : Laboratory

04122 717 0
sds@vosschemie.de

1.4 Emergency telephone

Telephone : Giftinformationszentrum (GIZ)-Nord,
Göttingen, Deutschland
0551 19240

IMPORTED BY:

**Sydney Automotive Paints & Equipment PTY LTD Unit A3, 366 Edgar St. Condell
Park NSW 2200 AUSTRALIA, Tel. +02 9772 9000 , +02 9772 9001**

**Emergency telephone number: If poisoning occurs contact a doctor or Poisons
Information Centre. Phone Australia 131 126, New Zealand 0800 764 766**

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SECTION 2: Hazards identification


2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapor.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
Specific target organ toxicity - repeated exposure, Category 1	H372: Causes damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust / mist / vapours.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

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P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Hazardous ingredients which must be listed on the label:

styrene

Additional Labeling

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture
contains
Resin

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
styrene	100-42-5 202-851-5 601-026-00-0 01-2119457861-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT SE 3; H335 (Respiratory system) STOT RE 1; H372 (hearing organs) Asp. Tox. 1; H304 Aquatic Chronic 3;	>= 10 - < 20

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Titanium dioxide	13463-67-7 236-675-5 01-2119489379-17	H412	>= 10 - < 20
		Acute toxicity estimate	
		Acute inhalation toxicity (vapor): 11,8 mg/l	
1,4-naphthoquinone	130-15-4 204-977-6 01-2120760462-57	Carc. 2; H351	>=0,0025 - < 0,025
		Acute Tox. 3; H301 Acute Tox. 1; H330 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	
		Acute toxicity estimate	
		Acute oral toxicity: 124 mg/kg Acute inhalation toxicity (dust/mist): 0,046 mg/l	
Substances with a workplace exposure limit:			
Talc	14807-96-6 238-877-9		>= 30 - < 50

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
Move out of dangerous area.
Take off contaminated clothing and shoes immediately.

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Do not leave the victim unattended.
Symptoms of poisoning may appear several hours later.
Show this material safety data sheet to the doctor in attendance.

- | | | |
|----------------------------|---|---|
| Protection of first-aiders | : | First Aid responders should pay attention to self-protection and use the recommended protective clothing |
| If inhaled | : | Move to fresh air.
Keep patient warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.
Call a physician immediately. |
| In case of skin contact | : | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Call a physician if irritation develops or persists. |
| In case of eye contact | : | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Keep eye wide open while rinsing.
If easy to do, remove contact lens, if worn.
Consult a physician. |
| If swallowed | : | Rinse mouth with water.
Do NOT induce vomiting.
Call a physician immediately. |

4.2 Most important symptoms and effects, both acute and delayed

- | | | |
|-------|---|---|
| Risks | : | Causes skin irritation.
Causes serious eye irritation.
Suspected of damaging the unborn child.
Causes damage to organs through prolonged or repeated exposure. |
|-------|---|---|

4.3 Indication of any immediate medical attention and special treatment needed

- | | | |
|-----------|---|---|
| Treatment | : | Treat symptomatically.
Keep under medical supervision for at least 48 hours. |
|-----------|---|---|
-

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | | |
|--------------------------------|---|--|
| Suitable extinguishing media | : | Carbon dioxide (CO ₂)
Dry powder
Water spray jet
Alcohol-resistant foam |
| Unsuitable extinguishing media | : | High volume water jet |

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5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire fighting : Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.
- Hazardous combustion products : Hazardous decomposition products due to incomplete combustion
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Advice for firefighters

- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- Further information : Use water spray to cool unopened containers.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
-

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Wear personal protective equipment.
Evacuate personnel to safe areas.
Ensure adequate ventilation, especially in confined areas.
Remove all sources of ignition.
Do not smoke.
Avoid contact with skin, eyes and clothing.
Sweep up to prevent slipping hazard.
In the case of vapor formation use a respirator with an approved filter.

6.2 Environmental precautions

- Environmental precautions : Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.
Do not flush with water.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Keep container closed when not in use.
Provide sufficient air exchange and/or exhaust in work rooms.
Wear personal protective equipment.
Avoid contact with skin and eyes.
Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture.
Avoid inhalation of dust from sanding.

Advice on protection against fire and explosion : Vapors may form explosive mixtures with air. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

Further information on storage conditions : Keep away from heat and sources of ignition. Protect from moisture. Keep away from direct sunlight. Do not store at temperatures above 30 °C / 86 °F.

Advice on common storage : Incompatible with oxidizing agents.
Keep away from food and drink.

Storage class (TRGS 510) : 3

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Talc	14807-96-6	AGW (Inhalable fraction)	10 mg/m ³	DE TRGS 900
Peak-limit category: 2;(II)				
Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
		AGW (Alveolate fraction)	1,25 mg/m ³	DE TRGS 900
Peak-limit category: 2;(II)				
Further information: When there is compliance with the OEL and biological				

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	tolerance values, there is no risk of harming the unborn child			
		TWA (Respirable dust)	0,1 mg/m ³	2004/37/EC
	Further information: Carcinogens or mutagens			
styrene	100-42-5	AGW	20 ppm 86 mg/m ³	DE TRGS 900
	Peak-limit category: 2;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Titanium dioxide	13463-67-7	AGW (Inhalable fraction)	10 mg/m ³ (Titanium dioxide)	DE TRGS 900
	Peak-limit category: 2;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		AGW (Alveolate fraction)	1,25 mg/m ³ (Titanium dioxide)	DE TRGS 900
	Peak-limit category: 2;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Barium sulphate	7727-43-7	AGW (Inhalable fraction)	10 mg/m ³	DE TRGS 900
	Peak-limit category: 2;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		AGW (Alveolate fraction)	1,25 mg/m ³	DE TRGS 900
	Peak-limit category: 2;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
styrene	100-42-5	mandelic acid + phenylglyoxylic acid: 600 mg/g Creatinine (Urine)	In case of long-term exposure: after more than one shift, Immediately after exposure or after working hours	TRGS 903

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
styrene	Workers	Dermal	Long-term systemic effects, Chronic effects	406 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects, Chronic effects	85 mg/m ³
	Workers	Inhalation	Acute systemic effects, Chronic effects	289 mg/m ³
	Workers	Inhalation	Acute local effects,	306 mg/m ³

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			Short-term exposure	
	Consumers	Oral	Long-term systemic effects, Chronic effects	2,1 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects, Chronic effects	343 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Chronic effects	10,0 mg/m ³
	Consumers	Inhalation	Acute systemic effects, Short-term exposure	174,25 mg/m ³
	Consumers	Inhalation	Acute local effects, Short-term exposure	182,75 mg/m ³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
styrene	Fresh water	0,028 mg/l
	Sea water	0,014 mg/l
	Fresh water sediment	0,614 mg/kg dry weight (d.w.)
	Sea sediment	0,307 mg/kg dry weight (d.w.)
	Soil	0,2 mg/kg dry weight (d.w.)
	Sewage treatment plant	5 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Fluorinated rubber
Break through time : > 480 min
Glove thickness : >= 0,4 mm
Directive : DIN EN 374
Protective index : Class 6

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Preventive skin protection Butyl gloves are not suitable. Nitrile gloves are not suitable. Avoid natural rubber gloves.

Skin and body protection : Please wear suitable protective clothing, e.g. made of cotton

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	or heat-resistant synthetic fibres. Long sleeved clothing
Respiratory protection	: Apply technical measures to comply with the occupational exposure limits. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used. Dry sanding, flame cutting and/or welding of the cured material will give rise to dust and/or hazardous fumes. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).
Filter type	: Combined particulates and organic vapor type (A-P)
Protective measures	: Ensure that eye flushing systems and safety showers are located close to the working place. Avoid contact with the skin and the eyes. Use only with adequate ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: paste
Color	: white
Odor	: characteristic
Melting point/range	: -30 °C Literary value styrene
Boiling point/boiling range	: 145 °C (1.013 hPa) Literary value styrene
Upper explosion limit / Upper flammability limit	: 6,1 %(V) Literary value styrene
Lower explosion limit / Lower flammability limit	: 1,1 %(V) Literary value styrene
Flash point	: 31 °C(1.013 hPa) Literary value styrene
Autoignition temperature	: 490 °C (1.013 hPa) Literary value styrene
pH	: Not applicable substance/mixture is non-soluble (in water)
Viscosity	

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Viscosity, dynamic	: not determined
Viscosity, kinematic	: not determined
Solubility(ies) Water solubility	: 0,32 g/l (25 °C) Literary value styrene
Partition coefficient: n- octanol/water	: No data available
Vapor pressure	: 6,67 hPa (20 °C) Literary value styrene
Density	: 1,8 g/cm ³ (20 °C)

9.2 Other information

Explosives	: Not explosive In use, may form flammable/explosive vapor-air mixture.
Self-ignition	: not auto-flammable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if used as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	: Avoid radical-forming starting agents, peroxides and reactive metals. Polymerization can occur. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.
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10.4 Conditions to avoid

Conditions to avoid	: Heat, flames and sparks. Strong sunlight for prolonged periods.
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10.5 Incompatible materials

Materials to avoid	: Strong acids and oxidizing agents polymerization initiators Copper Copper alloys Brass
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10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Components:

styrene:

Acute oral toxicity : LD50 Oral (Rat): 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 11,8 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Acute toxicity estimate: 11,8 mg/l
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402

Titanium dioxide:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LD50 (Rat): > 6,8 mg/l
Exposure time: 4 h

1,4-naphthoquinone:

Acute oral toxicity : LD50 Oral (Rat): 124 mg/kg
Acute toxicity estimate: 124 mg/kg
Method: Calculation method

Acute inhalation toxicity : LC50 (Rat): 0,046 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Acute toxicity estimate: 0,046 mg/l

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Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity
Effects of skin contacts may include:
Causes burns.

Talc:

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Skin corrosion/irritation

Causes skin irritation.

Components:

styrene:

Species : Rabbit
Result : irritating

Titanium dioxide:

Remarks : No skin irritation

1,4-naphthoquinone:

Result : Causes burns.

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

styrene:

Species : Rabbit
Result : irritating

Titanium dioxide:

Remarks : Dust contact with the eyes can lead to mechanical irritation.

1,4-naphthoquinone:

Result : Risk of serious damage to eyes.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

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Respiratory sensitization

Not classified based on available information.

Components:

styrene:

Species : Guinea pig
Result : Does not cause skin sensitization.

Titanium dioxide:

Remarks : No known sensitising effect.

1,4-naphthoquinone:

Result : May cause sensitization by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Suspected of damaging the unborn child.

Components:

styrene:

Reproductive toxicity – Assessment : Suspected of damaging the unborn child., Some evidence of adverse effects on development, based on animal experiments.

STOT-single exposure

Not classified based on available information.

Components:

styrene:

Assessment : May cause respiratory irritation.

1,4-naphthoquinone:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Causes damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.

Components:

styrene:

Routes of exposure : Inhalation
Target Organs : hearing organs

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Assessment : Causes damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Components:

styrene:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

styrene:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4,02 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4,7 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 4,9 mg/l Exposure time: 72 h

EC10 (Selenastrum capricornutum (green algae)): 0,28 mg/l Exposure time: 96 h

Toxicity to microorganisms : EC50 (Natural microorganism): ca. 500 mg/l Method: OECD Test Guideline 209

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,01 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Titanium dioxide:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 48 h

1,4-naphthoquinone:

Toxicity to fish : (Oryzias latipes (Japanese medaka)): 0,045 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,0261 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): 0,42 mg/l
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

styrene:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 70,9 %
Exposure time: 28 d

1,4-naphthoquinone:

Biodegradability : Result: Not rapidly biodegradable
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301

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12.3 Bioaccumulative potential

Components:

styrene:

Partition coefficient: n-octanol/water : log Pow: 2,96 (25 °C)

1,4-naphthoquinone:

Partition coefficient: n-octanol/water : log Pow: 1,77 (25 °C)

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Dispose of in accordance with local regulations. Dispose of wastes in an approved waste disposal facility. Send to a licensed waste management company.

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Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
Store containers and offer for recycling of material when in accordance with the local regulations.
Packaging that is not properly emptied must be disposed of as the unused product.
Dispose of in accordance with local regulations.

Waste Code : The following Waste Codes are only suggestions:
07 02 08, other still bottoms and reaction residues

SECTION 14: Transport information

14.1 UN number or ID number

ADG	: UN 1866
ADN	: UN 1866
ADR	: UN 1866
RID	: UN 1866
IMDG	: UN 1866
IATA	: UN 1866

14.2 UN proper shipping name

ADG	: RESIN SOLUTION
ADN	: RESIN SOLUTION
ADR	: RESIN SOLUTION
RID	: RESIN SOLUTION
IMDG	: RESIN SOLUTION
IATA	: RESIN SOLUTION

14.3 Transport hazard class(es)

ADG	: 3
ADN	: 3
ADR	: 3
RID	: 3
IMDG	: 3
IATA	: 3

14.4 Packing group

ADG Packing group	: III
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CAM Ultra Fine Glazing Putty

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ADN

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

ADR

Packing group : III

Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

RID

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

IMDG

Packing group : III
Labels : 3
EmS Code : F-E, S-E

IATA (Cargo)

Packing instruction (cargo aircraft) : 366
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft) : 355
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

14.5 Environmental hazards

ADG

Environmentally hazardous : no

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

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14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).	:	Not applicable
REACH - List of substances subject to authorization (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

Water hazard class (Germany) : WGK 2 obviously hazardous to water
Classification according to AwSV, Annex 1 (5.2)

Volatile organic compounds : Directive 2004/42/EC
Volatile organic compounds (VOC) content: < 420 g/l
VOC content for the product in a ready to use condition.

Other regulations

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical Safety Assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product. **AICIS:** All of the significant ingredients in this formulation are compliant with AICIS regulations.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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SECTION 16: Other information

Full text of H-Statements

H226	: Flammable liquid and vapor.
H301	: Toxic if swallowed.
H304	: May be fatal if swallowed and enters airways.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H330	: Fatal if inhaled.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H351	: Suspected of causing cancer if inhaled.
H361d	: Suspected of damaging the unborn child.
H372	: Causes damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Repr.	: Reproductive toxicity
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitization
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
2004/37/EC	: Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
TRGS 903	: c - Biological limit values
2004/37/EC / TWA	: Long term exposure limit
DE TRGS 900 / AGW	: Time Weighted Average

AGD – Australian Dangerous Goods; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New

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Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Repr. 2	H361d
STOT RE 1	H372

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DE / EN

1 Identification of the substance/mixture and of the company/undertaking· **1.1 Product identifier**· Trade name: **BPO-Paste rot/ CAM ULTRA FINE HARDENER**· **1.2 Relevant identified uses of the substance or mixture and uses advised against** *Not determined*· **Application of the substance / the mixture** *Hardening agent/ Curing agent*· **1.3 Details of the supplier of the safety data sheet**· **Manufacturer/Supplier:***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*· **Further information obtainable from:** *Phone: +49 (0) 4122-3682; e-mail: info@foerster-co.de*· **1.4 Emergency telephone number:***POISON INFORMATION CENTRE CALL 13 11 26 (AUSTRALIA)**Phone: 13 11 26 Australia***2 Hazards identification**· **2.1 Classification of the substance or mixture**· **Classification according to Regulation (EC) No 1272/2008***GHS02 flame**Org. Perox. EF H242 Heating may cause a fire.**GHS09 environment**Aquatic Acute 1 H400 Very toxic to aquatic life.**GHS07**Eye Irrit. 2 H319 Causes serious eye irritation.**Skin Sens. 1 H317 May cause an allergic skin reaction.*

(Contd. on page 2)

Trade name: BPO-Paste rot/ cam ultra fine hardener

(Contd. of page 1)

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.

**N; Dangerous for the environment**

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

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

GHS02

GHS07

GHS09

Signal word Warning**Hazard-determining components of labelling:**

dibenzoyl peroxide

Hazard statements

H242 Heating may cause a fire.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment.

P234 Keep only in original container.

P220 Keep apart from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds (such as accelerator, desiccative, metal soaps).

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P410 Protect from sunlight.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 3)

Trade name: BPO-Paste rot/cam ultra fine hardener

(Contd. of page 2)

· **2.3 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

· **3.2 Chemical characterization: Mixtures**

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

· **Dangerous components:**

CAS: 94-36-0 EINECS: 202-327-6 Reg.nr.: 01-2119511472-50	dibenzoyl peroxide ☠ Xi R36; ☠ Xi R43; ☠ E R3; 🔥 O R7; ☠ N R50/53 ☠ Org. Perox. B, H241; ☠ Aquatic Acute 1, H400; ☠ Eye Irrit. 2, H319; Skin Sens. 1, H317	50-100%
CAS: 131-11-3 EINECS: 205-011-6 Reg.nr.: 01-2119437229-36	dimethyl phthalate substance with a Community workplace exposure limit	10-35%

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

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:**

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

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

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

No further relevant information available.

5 Firefighting measures

· **5.1 Extinguishing media**

Hazchem: 1W

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 4)

Trade name: BPO-Paste rot/ cam ultra fine hardener

(Contd. of page 3)

- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the product promotes combustion.
May decompose explosively in absence of fire due to formation of vapour-air-mixture.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
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.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **6.1 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.
Avoid contact with the eyes and skin.
Keep away from ignition sources.
Pls. refer to section 10
- **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:**
Collect with an inert, non-combustible, absorbent material (i.e. sand, diatomaceous earth, acid binder, universal binder).
Do not seal receptacle gas tight.
Pls. refer to section 10
- **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.

7 Handling and storage

- **7.1 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, dessicative, metal soaps). Avoid naked flames, sparks, other ignition sources and sunlight.
Do not mix with accelerators or reducing agents.
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.
Avoid release to the environment.

(Contd. on page 5)

Trade name: BPO-Paste rot/ cam ultra fine hardener

(Contd. of page 4)

· Information about fire - and explosion protection:

- Protect from heat.
- Protect from sunlight.
- Keep ignition sources away - Do not smoke.
- Prevent impact and friction.
- Thermal decomposition with temperatures above 50 °C under formation of explosive vapours/gases
- 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

· 7.2 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
· 7.3 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.
· 8.1 Control parameters
· Ingredients with limit values that require monitoring at the workplace:
94-36-0 dibenzoyl peroxide

 WEL (Great Britain) Long-term value: 5 mg/m³
131-11-3 dimethyl phthalate

 WEL (Great Britain) Short-term value: 10 mg/m³
 Long-term value: 5 mg/m³
· DNELs
94-36-0 dibenzoyl peroxide

Oral	Long-term exposure - systemic effects	1.65 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	3.3 mg/kg bw/day (general population) 6.6 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	2.9 mg/m ³ (general population) 11.75 mg/m ³ (worker)

131-11-3 dimethyl phthalate

Oral	Long-term exposure - systemic effects	25 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	60 mg/kg bw/day (general population)

(Contd. on page 6)

Trade name: BPO-Paste rot/ cam ultra fine hardener

(Contd. of page 5)

Inhalative	Long-term exposure - systemic effects	100 mg/kg bw/day (worker)
		87 mg/m ³ (general population)
		294 mg/m ³ (worker)

· **PNECs**

94-36-0 dibenzoyl peroxide

PNEC STP	0.35 mg/l (-)
PNEC aqua	0.000602 mg/l (freshwater)
	0.000602 mg/l (marine water)
	0.000602 mg/l (intermittent releases)
PNEC sediment	0.338 mg/kg (freshwater)
	0.0338 mg/kg (marine water)
PNEC soil	0.0758 mg/kg (soil dw)
	6.67 mg/kg (food)

131-11-3 dimethyl phthalate

PNEC STP	4 mg/l (-)
PNEC aqua	0.192 mg/l (freshwater)
	0.0192 mg/l (marine water)
PNEC sediment	1403 mg/kg (freshwater)
PNEC soil	3.16 mg/kg (soil dw)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

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

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Contaminated work clothing should not be allowed out of the workplace.

Take off contaminated clothing and wash before reuse.

Use skin protection cream for skin protection.

If skin irritation occurs: Get medical advice/attention.

· **Respiratory protection:**

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

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

· **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

(Contd. on page 7)

Trade name: BPO-Paste rot/ cam ultra fine hardener

(Contd. of page 6)

- **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

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

- **General Information**

- **Appearance:**

Form: Pasty
Colour: According to product specification
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:** ~ 1.1-1.2 g/cm³

- **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

- **9.2 Other information**

No further relevant information available.

10 Stability and reactivity

- **10.1 Reactivity** No decomposition if used and stored according to specifications.

- **10.2 Chemical stability**

Resistant to inert materials only.

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

- **10.3 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.

- **10.4 Conditions to avoid**

Avoid naked flames, sparks, other ignition sources and sunlight.

Protect from heat.

>25 °C

To avoid thermal decomposition do not overheat.

Thermal decomposition with temperatures above 50 °C (SADT)

- **10.5 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.

(Contd. on page 8)

Trade name: BPO-Paste rot/ cam ultra fine hardener

(Contd. of page 7)

- **10.6 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

· 11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

94-36-0 dibenzoyl peroxide

Oral	LD 50	>5000 mg/kg (rat)
Inhalative	LC50 /4h	> 24300 mg/m ³ (rat) (Dust)

131-11-3 dimethyl phthalate

Oral	LD50	>2400 mg/kg (rat)
Dermal	LD50	> 10000 mg/kg (rabbit)
Inhalative	LC50 /6h	9.3 mg/l (-)

· Primary irritant effect:

- **on the skin:** Generally the product does not irritate the skin.
- **on the eye:** Irritating effect.

· Subacute to chronic toxicity:

94-36-0 dibenzoyl peroxide

Oral	NOAEL	500 mg/kg (-) (per day, 29d)
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131-11-3 dimethyl phthalate

Oral	NOAEL	1000 mg/kg (rat) (bw/day, 24 month)
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· 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)**
- **Carcinogenicity** No further relevant information available.
- **Reproductive toxicity/Fertility** No further relevant information available.

· Reproductive toxicity/Teratogenicity

131-11-3 dimethyl phthalate

Oral	NOAEL (developmental toxicity)	3570 mg/kg (rat) (OECD 414)
	NOAEL (maternally)	840 mg/kg (rat) (OECD 414)

12 Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

94-36-0 dibenzoyl peroxide

EC50	35 mg/l (activated slugde)
EC50/48h	0.11 mg/l (daphnia magna)
EC50/72h	0.06 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	0.06 mg/l (oncorhynchus mykiss)

131-11-3 dimethyl phthalate

EC10/72h	193.09 mg/l (desmodesmus subspicatus)
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(Contd. on page 9)

Trade name: BPO-Paste rot/ cam ultra fine hardener

(Contd. of page 8)

EC50/48h	33 mg/l (<i>daphnia magna</i>)
EC50/72h	259.76 mg/l (<i>desmodesmus subspicatus</i>)
EC50/96h	39.9 mg/l (<i>algae</i>) (<i>Raphidocelis subcapitata</i>)
LC50/96h	50 mg/l (<i>Lepomis macrochirus</i>)
	39 mg/l (<i>pimephales promelas</i>)
NOEC	9.6 mg/l (<i>daphnia magna</i>) (21 d)
	11 mg/l (<i>oncorhynchus mykiss</i>) (102 d)

· 12.2 Persistence and degradability
131-11-3 dimethyl phthalate

Biodegradation 96-98 % (-) (28d, OECD 301 E)

· 12.3 Bioaccumulative potential
94-36-0 dibenzoyl peroxide

BCF 66.6 (-)

log Pow 3.2 (-) (OECD 117)

131-11-3 dimethyl phthalate

 BCF 57 (*Lepomis macrochirus*) (21 day, OECD 305)

log Kow 1.56 (-) (OECD 107)

· Behaviour in environmental systems:
· 12.4 Mobility in soil
94-36-0 dibenzoyl peroxide

Koc 3.8 (-) (22 °C)

131-11-3 dimethyl phthalate

log Koc 1.57 (-)

· Additional ecological information:
· General notes: Do not allow product to reach ground water, water course or sewage system.

· 12.5 Results of PBT and vPvB assessment
· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

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.

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

16 05 06	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
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· Uncleaned packaging:
· Recommendation: Disposal must be made according to official regulations.




GB

(Contd. on page 10)

Trade name: **BPO-Paste rot/ cam ultra fine hardener**

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14 Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN3108
· 14.2 UN proper shipping name · ADR · IMDG · IATA	3108 ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), MARINE POLLUTANT ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)
· 14.3 Transport hazard class(es) · ADR, IMDG	Hazchem: 1W
 	
· Class · Label	5.2 Organic peroxides. 5.2
· IATA	
	
· Class · Label	5.2 Organic peroxides. 5.2
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · EMS Number:	Warning: Organic peroxides. F-J,S-R
· 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Transport category · Tunnel restriction code	500 g 2 D

15 Regulatory information

- 15.1 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.

(Contd. on page 11)

Trade name: BPO-Paste rot/ cam ultra fine hardener

(Contd. of page 10)

· **15.2 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.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

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.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R7 May cause fire.

· **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

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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Org. Perox. B: Organic Peroxides, Type B

Org. Perox. EF: Organic Peroxides, Types E, F

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1