

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

Printing date 06.06.2016

V - 5

Revision: 06.06.2016

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

- **1.1 Product identifier**
- **Trade name:** CARSYSTEM ELASTIC WEISS
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Not determined
- **Application of the substance / the mixture** Knife filler/ Surfacers
- **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**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

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Repr. 2 H361d Suspected of damaging the unborn child.

STOT RE 1 H372 Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

· **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

GHS08

· **Signal word** Danger

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

styrene

· **Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H372 Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

· **Precautionary statements**

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

P102 Keep out of reach of children.

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 mist/vapours/spray.

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.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

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.

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SECTION 3: Composition/information on ingredients· **3.2 Chemical characterisation: Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

CAS: 100-42-5 EINECS: 202-851-5 Reg.nr.: 01-2119457861-32	styrene ⚠ Flam. Liq. 3, H226; ⚠ Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	10-<20%
CAS: 2687-91-4 EINECS: 220-250-6	1-ethylpyrrolidin-2-one ⚠ Repr. 1B, H360D	0.1-<0.3%

· **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.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

Call a doctor immediately.

· **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.

SECTION 5: Firefighting measures**Hazchem: •3Y**· **5.1 Extinguishing media**· **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray.· **For safety reasons unsuitable extinguishing agents:** Water with full jet· **5.2 Special hazards arising from the substance or mixture**

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.

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· 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.**Keep away from ignition sources.***· 6.2 Environmental precautions:***Do not allow to enter sewers/ surface or ground water.**Inform respective authorities in case of seepage into water course or sewage system.***· 6.3 Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Do not flush with water or aqueous cleansing agents**Dispose of the material collected according to regulations.***· 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***Keep receptacles tightly sealed.**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:***Keep ignition sources away - Do not smoke.**Fumes can combine with air to form an explosive mixture.**Protect against electrostatic charges.**Use explosion-proof apparatus / fittings and spark-proof tools.**Ground/bond container and receiving equipment.***· 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 oxidising agents.**Store away from foodstuffs.***· Further information about storage conditions:***Store in cool, dry conditions in well sealed receptacles.**Store receptacle in a well ventilated area.**Protect from heat and direct sunlight.**Keep ignition sources away - Do not smoke.***· Recommended storage temperature:** *< 30 °C*

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· 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:**

100-42-5 styrene

WEL (Great Britain)	Short-term value: 1080 mg/m ³ , 250 ppm Long-term value: 430 mg/m ³ , 100 ppm
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· **DNELs**

100-42-5 styrene

Oral	Long-term exposure - systemic effects	2.1 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	343 mg/kg bw/day (general population) 406 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	10.2 mg/m ³ (general population) 85 mg/m ³ (worker)
	Acute/short-term exposure - systemic effects	174.25 mg/m ³ (general population) 289 mg/m ³ (worker)
	Acute/short-term exposure - local effects	182.75 mg/m ³ (general population) 306 mg/m ³ (worker)

· **PNECs**

100-42-5 styrene

PNEC aqua	0.028 mg/l (freshwater)
	0.0028 mg/l (marine water)
	0.04 mg/l (intermittent releases)
PNEC sediment	0.614 mg/kg (freshwater)
	0.0614 mg/kg (marine water)
PNEC STP	5 mg/l
PNEC soil	0.2 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:**

- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.
- Wash hands before breaks and at the end of work.
- 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
- After contact with skin, wash immediately with plenty of soap and water.
- Take off contaminated clothing.
- Use skin protection cream for skin protection.

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· **Respiratory protection:**

Ensure good ventilation/exhaustion at the workplace.

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

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

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**

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.7 mm

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**

Value for the permeation: Level ≤ 6 (≥ 480 min)

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

· **Not suitable are gloves made of the following materials:**

PVC gloves

Natural rubber, NR

Chloroprene rubber, CR

Nitrile rubber, NBR

Butyl rubber, BR

· **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: Pasty

Colour: White

· **Odour:** Characteristic

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- **Change in condition**
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 145 °C
- **Flash point:** 31 °C
- **Ignition temperature:** 480 °C
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Explosion limits:**
Lower: 1.2 Vol %
Upper: 8.9 Vol %
- **Vapour pressure at 20 °C:** 6 hPa
- **Density at 20 °C:** 1.9 g/cm³
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **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.
- **10.3 Possibility of hazardous reactions**
Reacts with peroxides and other radical forming substances.
Exothermic polymerisation.
- **10.4 Conditions to avoid**
Protect from heat.
Avoid naked flames, sparks, other ignition sources and 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.

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:**

100-42-5 styrene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD 50	>2000 mg/kg (rat) (OECD 402)
Inhalative	LC50 /4h	11.8 mg/l (rat)

2687-91-4 1-ethylpyrrolidin-2-one

Oral	LD50	3200 mg/kg (rat) (OECD 401)
Dermal	LD 50	> 2000 mg/kg (rat) (OECD 402)
Inhalative	LC 50 / 4h	> 5.1 mg/l (rat) (OECD 403, Aerosol)

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- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.

· Subacute to chronic toxicity:		
100-42-5 styrene		
Inhalative	NOAEL (subacute)	0.85 mg/l (rat) (13w, 6h/day, Vapour)
	NOAEL (subchronic)	0.8 mg/l (rat) (OECD 453, 2a, 6h/day, Vapour)

Inhalative	NOAEL (subacute)	0.85 mg/l (rat) (13w, 6h/day, Vapour)
	NOAEL (subchronic)	0.8 mg/l (rat) (OECD 453, 2a, 6h/day, Vapour)

- **Additional toxicological information:**
Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Sensitisation** No sensitising effects known.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Suspected of damaging the unborn child.

· Carcinogenicity		
100-42-5 styrene		
Inhalative	NOAEL (carcinogenicity)	4.34 mg/l (rat) (OECD 453, 2a, 6h/day, 5d/week, Vapour)

Inhalative	NOAEL (carcinogenicity)	4.34 mg/l (rat) (OECD 453, 2a, 6h/day, 5d/week, Vapour)
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· Reproductive toxicity/Fertility		
100-42-5 styrene		
Inhalative	NOAEL (fertility)	0.65 mg/l (rat, parents) (OECD 416, Vapour)
		0.22 mg/l (rat, F2) (OECD 416, Vapour)
		2.2 mg/l (rat) (OECD 416, Parents, Vapour)

Inhalative	NOAEL (fertility)	0.65 mg/l (rat, parents) (OECD 416, Vapour)
		0.22 mg/l (rat, F2) (OECD 416, Vapour)
		2.2 mg/l (rat) (OECD 416, Parents, Vapour)

· Reproductive toxicity/Teratogenicity		
100-42-5 styrene		
Inhalative	NOAEL (developmental toxicity)	2.6 mg/l (rat)
	NOAEL (teratogenicity)	2.6 mg/l (rat)
	LOAEL (maternally)	1.3 mg/l (rat)

Inhalative	NOAEL (developmental toxicity)	2.6 mg/l (rat)
	NOAEL (teratogenicity)	2.6 mg/l (rat)
	LOAEL (maternally)	1.3 mg/l (rat)

- **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**
Suspected of damaging the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**
Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

* SECTION 12: Ecological information		
· 12.1 Toxicity		
· Aquatic toxicity:		
100-42-5 styrene		
EC10/96h	0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050)	
EC50/48h	4.7 mg/l (daphnia magna) (OECD 202)	

EC10/96h	0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050)	
EC50/48h	4.7 mg/l (daphnia magna) (OECD 202)	

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EC50/72h	4.9 mg/l (<i>Pseudokirchneriella subcapitata</i>) (EPA OTS 797.1050)
EC50/0.5h	≈ 500 mg/l (activated slugde) (OECD 209)
LC50/96h	4.02 mg/l (<i>pimephales promelas</i>)
NOEC	1.01 mg/l (<i>daphnia magna</i>) (OECD-211 21d)

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EC50/48h	> 104 mg/l (<i>daphnia</i>) (OECD 202)
EC50/72h	> 101 mg/l (<i>desmodesmus subspicatus</i>) (OECD 201)
NOEC	12.5 mg/l (<i>daphnia</i>) (OECD 211, 21d)

· 12.2 Persistence and degradability

100-42-5 styrene

Biodegradation	70.9 % (activated slugde) (ISO DIN 9408, 28d, aerob)
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· 12.3 Bioaccumulative potential

100-42-5 styrene

log Kow	2.95
BCF	74 (calculated) 13.5 (fish)

· Behaviour in environmental systems:

· 12.4 Mobility in soil

100-42-5 styrene

log Koc	2.55
Koc	352

· 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

07 02 08*	other still bottoms and reaction residues
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN1866
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1866 RESIN SOLUTION mixture RESIN SOLUTION mixture
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA	Hazchem: •3Y
	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category	Warning: Flammable liquids. 30 F-E,S-D A
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category · Tunnel restriction code · Remarks:	3 D/E ADR 2.2.3.1.5
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L 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 (b) (250) <250
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P5c FLAMMABLE LIQUIDS**
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
- **Other regulations, limitations and prohibitive regulations**
Adhere to the Ordinances on the Prohibition of Certain Chemicals.
- **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**
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H360D May damage the unborn child.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.
- H412 Harmful to aquatic life with long lasting effects.
- **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)
- 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

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*SVHC: Substances of Very High Concern**Flam. Liq. 3: Flammable liquids – Category 3**Acute Tox. 4: Acute toxicity – Category 4**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Repr. 1B: Reproductive toxicity – Category 1B**Repr. 2: Reproductive toxicity – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1**Asp. Tox. 1: Aspiration hazard – Category 1**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3**** Data compared to the previous version altered.**

GB

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.*

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

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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/m³ (general population)11.75 mg/m³ (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)

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

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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

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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

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

(Contd. of page 8)

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

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

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· **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