

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

Printing date 30.05.2016

V - 2

Revision: 30.05.2016

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

- **1.1 Product identifier**
  - **Trade name:** CARSYSTEM MULTI GREEN Plus 1.0
  - **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
- 

**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.

STOT SE 3 H335 May cause respiratory 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.

H335 May cause respiratory irritation.

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.

P271 Use only outdoors or in a well-ventilated area.

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.

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· **vPvB:** Not applicable.**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	10-25%
CAS: 64742-95-6 EINECS: 265-199-0 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom. ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	0.1-1.0%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures**· **4.1 Description of first aid measures**· **General information:**

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

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

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

Immediately remove any clothing soiled by the product.

· **After inhalation:**

Supply fresh air or oxygen; call for doctor.

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

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **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**· **5.1 Extinguishing media**· **Suitable extinguishing agents:** CO<sub>2</sub>, 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.

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- **5.3 Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Do not inhale explosion gases or combustion gases.
- **Additional information**
  - Cool endangered receptacles with water spray.
  - Collect contaminated fire fighting water separately. It must not enter the sewage system.
  - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.
  - Avoid contact with the eyes and skin.
  - Ensure adequate ventilation
  - Do not inhale gases / fumes / aerosols.
  - 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
- **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.

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- Protect from heat and direct sunlight.
- **Recommended storage temperature:** < 30 °C
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

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

· **8.1 Control parameters**

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

**100-42-5 styrene**

WEL (Great Britain)	Short-term value: 1080 mg/m <sup>3</sup> , 250 ppm Long-term value: 430 mg/m <sup>3</sup> , 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	Acute/short-term exposure - local effects	182.75 mg/m <sup>3</sup> (general population) 306 mg/m <sup>3</sup> (worker)
	Acute/short-term exposure - systemic effects	174.25 mg/m <sup>3</sup> (general population) 289 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	10.2 mg/m <sup>3</sup> (general population) 85 mg/m <sup>3</sup> (worker)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	Long-term exposure - systemic effects	11 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	11 mg/kg bw/day (general population) 25 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	32 mg/m <sup>3</sup> (general population) 150 mg/m <sup>3</sup> (worker)

- **PNECs**

**100-42-5 styrene**

PNEC STP	5 mg/l
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 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.

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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  
Take off contaminated clothing.  
Use skin protection cream for skin protection.

· **Respiratory protection:**

Ensure good ventilation/exhaustion at the workplace.  
Adhere to the workplace limit values and / or other threshold values.  
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:  $\geq 0.7$  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  $\leq 6$  ( 480 min)  
The exact break trough 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:**

Natural rubber, NR  
Chloroprene rubber, CR  
Nitrile rubber, NBR  
Butyl rubber, BR  
PVC gloves

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

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**SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:**

Form:	Pasty
Colour:	Light green
Odour:	Characteristic

**· Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	145 °C

**· Flash point:** 31 °C**· Ignition temperature:** 480 °C**· Self-igniting:** Product is not selfigniting.**· 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 g/cm<sup>3</sup>**· Vapour density** Not determined**· Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

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

Dynamic:	Not determined.
Kinematic:	Not determined.

**· 9.2 Other information** No further relevant information available.**SECTION 10: Stability and reactivity****· 10.1 Reactivity** No decomposition if used according to specifications.**· 10.2 Chemical stability** No decomposition if used and stored according to specifications.**· 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.

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### 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)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD 50	> 6800 mg/kg (rat)
Dermal	LD 50	> 3400 mg/kg (rabbit)
Inhalative	LC 50 / 4h	> 10.2 mg/l (rat)

- **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)

- **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)
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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)

- **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)

- **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.

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- **STOT-single exposure**  
May cause respiratory irritation.
- **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 ( <i>Pseudokirchneriella subcapitata</i> ) (EPA OTS 797.1050)
EC50/0.5h	≈ 500 mg/l (activated sludge) (OECD 209)
EC50/48h	4.7 mg/l ( <i>daphnia magna</i> ) (OECD 202)
EC50/72h	4.9 mg/l ( <i>Pseudokirchneriella subcapitata</i> ) (EPA OTS 797.1050)
LC50/96h	4.02 mg/l ( <i>pimephales promelas</i> )
NOEC	1.01 mg/l ( <i>daphnia magna</i> ) (OECD-211 21d)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

EC50/48h	6.14 mg/l ( <i>daphnia magna</i> )
EL50/72h	56 mg/l ( <i>Pseudokirchneriella subcapitata</i> ) (OECD 201)
LC50/96h	9.22 mg/l ( <i>oncorhynchus mykiss</i> )
LL50/96h	10 mg/l ( <i>oncorhynchus mykiss</i> ) (OECD 203)
NOELR (aqua chron.)	2.6 mg/l ( <i>daphnia magna</i> ) (OECD 211, 21d)
	2.6 mg/l ( <i>pimephales promelas</i> ) (OECD 204, 14d)

· **12.2 Persistence and degradability**

**100-42-5 styrene**

Biodegradation	70.9 % (activated sludge) (ISO DIN 9408, 28d, aerob)
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**64742-95-6 Solvent naphtha (petroleum), light arom.**

Biodegradation	74.3 % (ISO/DIS 14593, 28d)
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· **12.3 Bioaccumulative potential**

**100-42-5 styrene**

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

**64742-95-6 Solvent naphtha (petroleum), light arom.**

BCF	10 - 2500 (lit.) (calculated)
log Kow	> 3

· **Behaviour in environmental systems:**

· **12.4 Mobility in soil**

**100-42-5 styrene**

Koc	352
log Koc	2.55

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**64742-95-6 Solvent naphtha (petroleum), light arom.**

Koc 60.7 - 229.2 (lit.) (calculated value)

log Koc 1.783 - 2.36 (lit.) (calculated value)

· **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

· **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**

1866 RESIN SOLUTION

· **IMDG, IATA**

RESIN SOLUTION

· **14.3 Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class**

3 Flammable liquids.

· **Label**

3

· **14.4 Packing group**

· **ADR, IMDG, IATA**

III

· **14.5 Environmental hazards:**

Not applicable.

· **14.6 Special precautions for user**

Warning: Flammable liquids.

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- |                                                                                  |                 |
|----------------------------------------------------------------------------------|-----------------|
| · <b>Danger code (Kemler):</b>                                                   | 30              |
| · <b>EMS Number:</b>                                                             | F-E, S-E        |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| · <b>Transport/Additional information:</b>                                       |                 |
| · <b>ADR</b>                                                                     |                 |
| · <b>Limited quantities (LQ)</b>                                                 | 5L              |
| · <b>Tunnel restriction code</b>                                                 | D/E             |
| · <b>Remarks:</b>                                                                | ADR 2.2.3.1.5   |

**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/IB (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.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- **Department issuing SDS: Abteilung Labor**
- **Contact: Frau S. Schaller**

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**· 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*

*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. 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 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*

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

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

- **1.1 Product identifier**
  - **Trade name:** *BPO-Paste rot*
  - **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:**  
*A.Förster & Co.KG*  
*Esinger Steinweg 50*  
*25436 Uetersen*  
*Phone: +49 (0) 4122-3682; e-mail: info@foerster-co.de*
  - **Further information obtainable from:** *Phone: +49 (0) 4122-3682; e-mail: info@foerster-co.de*
  - **1.4 Emergency telephone number:**  
*Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland*  
*Phone: +49 (0)551 19240*
- 

**SECTION 2: Hazards identification**

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

*GHS02 flame**Org. Perox. E      H242 Heating may cause a fire.**GHS09 environment**Aquatic Acute 1      H400 Very toxic to aquatic life.**Aquatic Chronic 1      H410 Very toxic to aquatic life with long lasting effects.**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**

(Contd. of page 1)

**· 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.

H410 Very toxic to aquatic life with long lasting effects.

**· Precautionary statements**

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

P102 Keep out of reach of children.

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

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

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

P273 Avoid release to the environment.

P234 Keep only in original container.

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.

**· 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.

**SECTION 3: Composition/information on ingredients****· 3.2 Chemical characterisation: Mixtures**

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

(Contd. on page 3)

**Trade name: BPO-Paste rot**

(Contd. of page 2)

· <b>Dangerous components:</b>		
CAS: 94-36-0 EINECS: 202-327-6 Reg.nr.: 01-2119511472-50	<i>dibenzoyl peroxide</i> ⚠️⚠️ <i>Org. Perox. B, H241</i> ; ⚠️ <i>Aquatic Acute 1, H400 (M=10)</i> ; <i>Aquatic Chronic 1, H410 (M=10)</i> ; ⚠️ <i>Eye Irrit. 2, H319</i> ; <i>Skin Sens. 1, H317</i>	45-52%
CAS: 131-11-3 EINECS: 205-011-6 Reg.nr.: 01-2119437229-36	<i>dimethyl phthalate</i> <i>substance with a Community workplace exposure limit</i>	25-35%
CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 02-2119752517-33 01-2119456816-28	<i>ethanediol</i> ⚠️ <i>STOT RE 2, H373</i> ; ⚠️ <i>Acute Tox. 4, H302</i>	1.0-<10%

 · **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:**

Remove person to fresh air and keep 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.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

##### · **Suitable extinguishing agents:**

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

#### · 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.

(Contd. on page 4)

**Trade name: BPO-Paste rot**

(Contd. of page 3)

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.

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.

**SECTION 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, desiccative, 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.

**· 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.

(Contd. on page 5)



**Trade name: BPO-Paste rot**

(Contd. of page 4)

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.

**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:**

**94-36-0 dibenzoyl peroxide**

WEL (Great Britain) Long-term value: 5 mg/m<sup>3</sup>

**131-11-3 dimethyl phthalate**

WEL (Great Britain) Short-term value: 10 mg/m<sup>3</sup>  
Long-term value: 5 mg/m<sup>3</sup>

**107-21-1 ethanediol**

WEL (Great Britain) Short-term value: 104\*\* mg/m<sup>3</sup>, 40\*\* ppm  
Long-term value: 10\* 52\*\* mg/m<sup>3</sup>, 20\*\* ppm  
Sk \*particulate \*\*vapour

IOELV (EU) Short-term value: 104 mg/m<sup>3</sup>, 40 ppm  
Long-term value: 52 mg/m<sup>3</sup>, 20 ppm  
Skin

· **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 <sup>3</sup> (general population) 11.75 mg/m <sup>3</sup> (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) 100 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	87 mg/m <sup>3</sup> (general population) 294 mg/m <sup>3</sup> (worker)

(Contd. on page 6)

**Trade name: BPO-Paste rot**

(Contd. of page 5)

**107-21-1 ethanediol**

Dermal	Long-term exposure - systemic effects	53 mg/kg bw/day (general population)
		106 mg/kg bw/day (worker)
Inhalative	Long-term exposure - local effects	7 mg/m <sup>3</sup> (general population)
		35 mg/m <sup>3</sup> (worker)

· **PNECs**

**94-36-0 dibenzoyl peroxide**

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 STP	0.35 mg/l
PNEC soil	0.0758 mg/kg (soil dw)

**131-11-3 dimethyl phthalate**

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

**107-21-1 ethanediol**

PNEC aqua	10 mg/l (freshwater)
	1 mg/l (marine water)
	10 mg/l (intermittent releases)
PNEC sediment	20.9 mg/kg (freshwater)
PNEC STP	199.5 mg/l
PNEC soil	1.53 mg/kg

· **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.

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

(Contd. on page 7)

**Trade name: BPO-Paste rot**

(Contd. of page 6)

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.

Neoprene gloves

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.14$  mm

· **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.

For the mixture of chemicals mentioned below the penetration time has to be at least 30 minutes (Permeation according to EN 374 Part 3: Level 2).

· **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:** 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:**  $\sim 1.1-1.2$  g/cm<sup>3</sup>

· **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 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.

(Contd. on page 8)

**Trade name: BPO-Paste rot**

(Contd. of page 7)

· **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.

· **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.

**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:**

**94-36-0 dibenzoyl peroxide**

Oral	LD50	>5000 mg/kg (rat)
Inhalative	LC0 /4h	24.3 mg/l (rat)

**131-11-3 dimethyl phthalate**

Oral	LD 50	>2400 mg/kg (rat)
Dermal	LD50	> 10000 mg/kg (rabbit)
Inhalative	LC50 /6h	9.3 mg/l

**107-21-1 ethanediol**

Oral	LD50	5840 mg/kg (rat)
Dermal	LD50	9530 mg/kg (rabbit)
Inhalative	LC50 /6h	> 2.5 mg/l (rat) (Aerosol)

· **Primary irritant effect:**

· **Skin corrosion/irritation** Generally the product does not irritate the skin.

· **Serious eye damage/irritation**

Causes serious eye irritation.

· **Subacute to chronic toxicity:**

**131-11-3 dimethyl phthalate**

Oral	NOAEL	1000 mg/kg (rat) (bw/day, 24 month)
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· **Additional toxicological information:** No further relevant information available.

· **Sensitisation**

Sensitisation possible through skin contact.

May cause an allergic skin reaction.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **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)
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(Contd. on page 9)

**Trade name: BPO-Paste rot**

(Contd. of page 8)

NOAEL (maternally)	840 mg/kg (rat) (OECD 414)
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- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**94-36-0 dibenzoyl peroxide**

M Factor	10 (acute) 10 (chronic)
EC10	0.001 mg/l (daphnia magna) (21d)
EC50/48h	0.11 mg/l (daphnia) (OECD TG 202)
EC50/72h	0.0711 mg/l (algae) (OECD TG 201)
LC50/96h	0.0602 mg/l (oncorhynchus mykiss) (OECD TG 203)
NOEC	0.02 mg/l (Pseudokirchneriella subcapitata) (72h) 0.0316 mg/l (fish) (96h)

**131-11-3 dimethyl phthalate**

EC10/72h	193.09 mg/l (desmodesmus subspicatus)
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)

**107-21-1 ethanediol**

EC50	10000 mg/l (pseudomonas putida) (16h)
EC50/48h	> 10000 mg/l (daphnia magna)
EC50/96h	6500-7500 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	18500 mg/l (oncorhynchus mykiss)

· **12.2 Persistence and degradability**

**94-36-0 dibenzoyl peroxide**

Biodegradation 71 % (28 d, OECD TG 301 D)

**131-11-3 dimethyl phthalate**

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

**107-21-1 ethanediol**

BSB (BOD)	1245 mg/g
Biodegradation	56 % (OECD 301 C (28h))

· **12.3 Bioaccumulative potential**

**94-36-0 dibenzoyl peroxide**

log Kow	3.2 (OECD TG 117)
BCF	66.6

(Contd. on page 10)

**Trade name: BPO-Paste rot**

(Contd. of page 9)

**131-11-3 dimethyl phthalate**

log Kow | 1.56 (OECD 107)

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

**107-21-1 ethanediol**

log Pow | -1.34

**· Behaviour in environmental systems:**

**· 12.4 Mobility in soil**

**94-36-0 dibenzoyl peroxide**

log Koc | 3.8 (OECD TGD 121)

**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.

**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.

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.

**SECTION 14: Transport information**

**· 14.1 UN-Number**

· **ADR, IMDG, IATA**

UN3108

**· 14.2 UN proper shipping name**

· **ADR**

3108 ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), ENVIRONMENTALLY HAZARDOUS

· **IMDG**

ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), MARINE POLLUTANT

· **IATA**

ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)

(Contd. on page 11)

Trade name: BPO-Paste rot

(Contd. of page 10)

· 14.3 Transport hazard class(es)

· ADR, IMDG



· Class 5.2 Organic peroxides.  
· Label 5.2

· IATA



· Class 5.2 Organic peroxides.  
· Label 5.2

· 14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant: Symbol (fish and tree)  
· Special marking (ADR): 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 and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR  
· Limited quantities (LQ) 500 g  
· Transport category 2  
· Tunnel restriction code D

**SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category

P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

E1 Hazardous to the Aquatic Environment

· National regulations:

· Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

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

**SECTION 16: Other information**

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

(Contd. on page 12)

**Trade name: BPO-Paste rot**

(Contd. of page 11)

**· Relevant phrases***H241 Heating may cause a fire or explosion.**H302 Harmful if swallowed.**H317 May cause an allergic skin reaction.**H319 Causes serious eye irritation.**H373 May cause damage to organs through prolonged or repeated exposure.**H400 Very toxic to aquatic life.**H410 Very toxic to aquatic life with long lasting effects.***· 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 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**Org. Perox. B: Organic peroxides – Type B**Org. Perox. E: Organic peroxides – Type E/F**Acute Tox. 4: Acute toxicity – Category 4**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Skin Sens. 1: Skin sensitisation – Category 1**STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1***· \* Data compared to the previous version altered.**