

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **3270 Fiberplast+ komp B**

Creation date: **24.2.2017** · Revision: **18.6.2019** · Version: **1**

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name

**3270 Fiberplast+ komp B**



chemius.net/s8Te8

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

Relevant identified uses

Hardener

Uses advised against

No information.

### 1.3. Details of the supplier of the safety data sheet

Manufacturer

SILCO, D.O.O.

Address: Šentrupert 5 a, 3303 Gomilsko, Slovenia

Phone: +386 3 703 3180

Fax: +386 3 703 3188

E-mail: n.cvilak@silco-automotive.com

Point of contact for safety info: Nejc Cvilak

### 1.4. Emergency telephone number

Emergency

112

Supplier

+386 3 703 3180

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Org. Perox. E; H242 Heating may cause a fire.

Skin Sens. 1; H317 May cause an allergic skin reaction.

Eye Irrit. 2; H319 Causes serious eye irritation.

Aquatic Acute 1; H400 Very toxic to aquatic life.

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

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## 2.2 Label elements

### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: **Warning**

H242 Heating may cause a fire.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

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.

P234 Keep only in original packaging.

P273 Avoid release to the environment.

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

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

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.

P401 Store in accordance with regulations on separate storage and take into account the incompatibility of certain substances/mixtures (store away from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds such as accelerators, dessicatives, metal soaps).

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

P410 Protect from sunlight.

P501 Dispose of contents/container in accordance with national regulation.

### 2.2.2. Contains:

dibenzoyl peroxide (CAS: 94-36-0, EC: 202-327-6, Index: 617-008-00-0)

### 2.2.3. Special provisions

Special hazards are not known or expected.

## 2.3. Other hazards

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 at temperatures >50 °C (SADT).

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

For mixtures see 3.2.

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## 3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
dibenzoyl peroxide	94-36-0 202-327-6 617-008-00-0	45-52	Org. Perox. B; H241 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Acute 1; H400 [M=10] Aquatic Chronic 1; H410 [M=10]		01-2119511472-50
Dimethyl phthalate	131-11-3 205-011-6 -	25-35	not classified		01-2119437229-36
ethanediol	107-21-1 203-473-3 603-027-00-1	1-<10	Acute Tox. 4; H302 STOT RE 2; H373		01-2119456816-28

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General notes

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Symptoms of poisoning may even occur after several hours; therefore medical observation is required at least 48 hours after the event. Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. Take off all contaminated clothing immediately.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. If difficulties with breathing do not stop, search for medical help. If breathing is difficult, give oxygen. If breathing is irregular or respiratory arrest occurs provide artificial respiration. In case of unconsciousness bring patient into stable side position and seek medical attention.

#### Following skin contact

Immediately remove contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention.

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Seek medical help.

#### Following ingestion

Do not induce vomiting! Immediately consult a doctor. Show the physician the safety data sheet or label.

### 4.2. Most important symptoms and effects, both acute and delayed

#### Inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.  
Coughing, sneezing, nasal discharge, labored breathing.

#### Skin contact

May cause sensitisation by skin contact (symptoms: itching, redness, rashes).

#### Eye contact

Redness, tearing, pain.

#### Ingestion

May cause nausea/vomiting and diarrhea.  
Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.  
May cause abdominal discomfort.

### 4.3. Indication of any immediate medical attention and special treatment needed

## SECTION 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>).

Fire extinguishing powder.

Water spray. Extinguish large fires with water spray or alcohol-resistant foam.

#### Unsuitable extinguishing media

Full water jet.

### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. Substance accelerates combustion. May decompose explosively in absence of fire due to formation of vapour-air-mixture.

### 5.3. Advice for firefighters

#### Protective actions

In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area.

#### Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

#### Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### **Protective equipment**

Use personal protective equipment (Section 8). In case of insufficient ventilation, use respiratory protection equipment.

##### **Emergency procedures**

Ensure adequate ventilation. Keep away sources of ignition. Prohibited to smoke! Prevent access to unprotected personnel.

Prevent access to unauthorised personnel. Avoid contact with skin and eyes. Do not breathe vapour or mist.

#### 6.1.2. For emergency responders

Ensure adequate ventilation. Use personal protective equipment.

### 6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

### 6.3. Methods and material for containment and cleaning up

#### 6.3.1. For containment

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#### 6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Container with waste must not be tightly closed.

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### 6.3.3. Other information

See Section 10: Stability and reactivity.

### **6.4. Reference to other sections**

See also Sections 8 and 13.

## **SECTION 7. HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

#### 7.1.1. Protective measures

##### **Measures to prevent fire**

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Protect from open fire and other sources of ignition or heat. Vapours and air form explosive mixtures. Use explosively safe equipment (ventilators, lighting, working instruments and devices,...); Restrict the quantity stored at the work place. Resistant to inert materials only. Do not mix with accelerators or reducing agents. Avoid shock and friction. Thermal decomposition with temperatures above 50 °C under formation of explosive vapours/gases. Fire propagating effect due to oxygen release. Keep away from incompatible substances/material. Keep apart from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds such as accelerator, dessicative, metal soaps.

##### **Measures to prevent aerosol and dust generation**

Ensure good ventilation and extraction.

##### **Measures to protect the environment**

Avoid release to the environment.

#### 7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin and eyes. Do not breathe vapours/mist. Open and handle the container with caution. Weigh out and mix separately when processing polyester resins. Adhere to the workplace limit values and / or other threshold values.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### 7.2.1. Technical measures and storage conditions

Keep in tightly closed container. Keep in cool and well ventilated area. Keep in a dry place. Protect from open fire, heat and direct sunlight. Keep away from oxidising substances. Keep away from food, drink and animal feeding stuffs. Never return unused material to storage receptacle. Keep apart from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds such as accelerator, dessicative, metal soaps. Avoid storage in containers with an airtight closure to prevent hazardous pressure build-up due to an eventual decomposition. Protect from contamination. Store and use only in equipment/containers designed for use with this product. Adhere to the provisions of the Law on Water Protection. Keep in a locked place. Keep out of the reach of children. Store below +25°C.

#### 7.2.2. Packaging materials

Store only in original container. Suitable materials: Stainless steel (DIN 1.4571), PVC, polyethylene, glass-lined apparatus.

#### 7.2.3. Requirements for storage rooms and vessels

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#### 7.2.4. Storage class

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#### 7.2.5. Further information on storage conditions

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### **7.3. Specific end use(s)**

#### **Recommendations**

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#### **Industrial sector specific solutions**

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>		
Dibenzoyl peroxide (94-36-0)	-	5	-	-		
Dimethyl phthalate (131-11-3)	-	5	-	10		
Ethane-1,2-diol particulate (107-21-1)	-	10	-	-	Sk	
Ethane-1,2-diol vapour (107-21-1)	20	52	40	104	Sk	

#### 8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

#### 8.1.3. DNEL/DMEL values

##### For components

Name	Type	Exposure route	Exposure frequency	Value	Remark
dibenzoyl peroxide (94-36-0)	Consumer	oral	long term (systemic effects)	1,65 mg/kg bw/day	
dibenzoyl peroxide (94-36-0)	Consumer	dermal	long term (systemic effects)	3,3 mg/kg bw/day	
dibenzoyl peroxide (94-36-0)	Worker	dermal	long term (systemic effects)	6,6 mg/kg bw/day	
dibenzoyl peroxide (94-36-0)	Consumer	inhalation	long term (systemic effects)	2,9 mg/m <sup>3</sup>	
dibenzoyl peroxide (94-36-0)	Worker	inhalation	long term (systemic effects)	11,75 mg/m <sup>3</sup>	
Dimethyl phthalate (131-11-3)	Consumer	oral	long term (systemic effects)	25 mg/kg	
Dimethyl phthalate (131-11-3)	Consumer	dermal	long term (systemic effects)	60 mg/kg	
Dimethyl phthalate (131-11-3)	Worker	dermal	long term (systemic effects)	100 mg/kg	
Dimethyl phthalate (131-11-3)	Consumer	inhalation	long term (systemic effects)	86,96 mg/m <sup>3</sup>	
Dimethyl phthalate (131-11-3)	Worker	inhalation	long term (systemic effects)	293,86 mg/m <sup>3</sup>	
ethanediol (107-21-1)	Consumer	dermal	long term (systemic effects)	53 mg/kg bw/day	
ethanediol (107-21-1)	Worker	dermal	long term (systemic effects)	106 mg/kg bw/day	
ethanediol (107-21-1)	Consumer	inhalation	long term (local effects)	7 mg/m <sup>3</sup>	
ethanediol (107-21-1)	Worker	inhalation	long term (local effects)	35 mg/m <sup>3</sup>	

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## 8.1.4. PNEC values

### For components

Name	Exposure route	Value	Remark
dibenzoyl peroxide (94-36-0)	fresh water	0,000602 mg/L	
dibenzoyl peroxide (94-36-0)	marine water	6,02E-5 mg/L	
dibenzoyl peroxide (94-36-0)	water, intermittent release	0,000602 mg/L	
dibenzoyl peroxide (94-36-0)	fresh water sediment	0,338 mg/kg	
dibenzoyl peroxide (94-36-0)	marine water sediment	0,0338 mg/kg	
dibenzoyl peroxide (94-36-0)	water treatment plant	0,35 mg/L	
dibenzoyl peroxide (94-36-0)	soil	0,0758 mg/kg dw	
Dimethyl phthalate (131-11-3)	water treatment plant	4 mg/L	
Dimethyl phthalate (131-11-3)	fresh water sediment	1,403 mg/kg	
Dimethyl phthalate (131-11-3)	fresh water	0,192 mg/L	
Dimethyl phthalate (131-11-3)	water treatment plant	4 mg/L	
Dimethyl phthalate (131-11-3)	marine water	0,0192 mg/L	
ethanediol (107-21-1)	fresh water	10 mg/L	
ethanediol (107-21-1)	marine water	1 mg/L	
ethanediol (107-21-1)	water, intermittent release	10 mg/L	
ethanediol (107-21-1)	fresh water sediment	20,9 mg/kg	
ethanediol (107-21-1)	water treatment plant	199,5 mg/L	
ethanediol (107-21-1)	soil	1,53 mg/kg	

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering control

#### Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols. Avoid contact with eyes and skin. Keep away from foodstuffs, beverages and feed.

#### Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Store protective clothing separate from regular clothing.

#### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

### 8.2.2. Personal protective equipment

#### Eye and face protection

Tight fitting protective goggles (EN 166).

#### Hand protection

Protective gloves (EN 374). Protect hands with barrier cream. Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. 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.

#### Appropriate materials

Material	Thickness	Penetration Time	Remark
Nitrile	≥ 0,14 mm	≥ 30 min	EN 374-2
Neoprene	≥ 0,14 mm	≥ 30 min	EN 374-2

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## Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

## Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard EN 137, EN 138.

## Thermal hazards

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## 8.2.3. Environmental exposure controls

-

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

-	<b>Physical state:</b>	solid; paste
-	<b>Colour:</b>	according to specification
-	<b>Odour:</b>	characteristic

### Important health, safety and environmental information

-	<b>pH</b>	No information.
-	<b>Melting point/freezing point</b>	No information.
-	<b>Initial boiling point/boiling range</b>	No information.
-	<b>Flash point</b>	> 50 °C
-	<b>Evaporation rate</b>	No information.
-	<b>Flammability (solid, gas)</b>	No information.
-	<b>Explosion limits (vol%)</b>	No information.
-	<b>Vapour pressure</b>	No information.
-	<b>Vapour density</b>	No information.
-	<b>Density</b>	<b>Density:</b> 1,1 – 1,2 g/cm <sup>3</sup> at 20 °C
-	<b>Solubility</b>	<b>Water:</b> Insoluble
-	<b>Partition coefficient</b>	No information.
-	<b>Auto-ignition temperature</b>	No information.
-	<b>Decomposition temperature</b>	50 °C (SADT)
-	<b>Viscosity</b>	No information.
-	<b>Explosive properties</b>	No information.
-	<b>Oxidising properties</b>	No information.

### 9.2. Other information

-	<b>Remarks:</b>	
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## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable under recommended transport or storage conditions.



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## 10.2. Chemical stability

Resistant to inert materials only.

## 10.3. Possibility of hazardous reactions

Thermal decomposition or direct contact with numerous additives, such as reducing agents, heavy metal compounds, acids and alkaline solutions, may lead to hazardous, autoaccelerating decomposition reactions, and possibly, to explosion or fire.

## 10.4. Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks. Thermal decomposition at temperatures >50 °C (SADT). Do not expose to temperatures exceeding 25°C. To avoid thermal decomposition do not overheat.

## 10.5. Incompatible materials

-

## 10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. In the event of fire toxic pyrolysis products can be generated. Formation of various organic degradation products and inflammable and explosive vapours/gases upon decomposition.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### (a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
dibenzoyl peroxide (94-36-0)	oral	LD <sub>50</sub>	rat		> 5000 mg/kg		
dibenzoyl peroxide (94-36-0)	inhalation	LC <sub>0</sub>	rat	4 h	24,3 mg/l		
Dimethyl phthalate (131-11-3)	oral	LD <sub>50</sub>	rat		> 2400 mg/kg		
Dimethyl phthalate (131-11-3)	dermal	LD <sub>50</sub>	rabbit		> 10000 mg/kg		
Dimethyl phthalate (131-11-3)	inhalation	LC <sub>50</sub>		6 h	9,3 mg/l		
ethanediol (107-21-1)	oral	LD <sub>50</sub>	rat		5840 mg/kg		
ethanediol (107-21-1)	dermal	LD <sub>50</sub>	rabbit		9530 mg/kg		
ethanediol (107-21-1)	inhalation (aerosol)	LC <sub>50</sub>	rat	6 h	> 2,5 mg/l		

**Additional information:** The product is not classified for acute toxicity.

#### (b) Skin corrosion/irritation

**Additional information:** The product is not classified as irritating to the skin.

#### (c) Serious eye damage/irritation

**Additional information:** Causes serious eye irritation.

#### (d) Respiratory or skin sensitisation

**Additional information:** May cause an allergic skin reaction.

#### (e) (Germ cell) mutagenicity

No information.

#### (f) Carcinogenicity

No information.

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## (g) Reproductive toxicity

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
Dimethyl phthalate (131-11-3)	Developmental toxicity	NOAEL	rat		3570 mg/kg		OECD 414	oral
Dimethyl phthalate (131-11-3)	Maternal toxicity	NOAEL	rat		840 mg/kg		OECD 414	oral

## Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

## (h) STOT-single exposure

No information.

## (i) STOT-repeated exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
Dimethyl phthalate (131-11-3)	oral	NOAEL	rat	24 months		1000 mg/kg bw/day			

## (j) Aspiration hazard

**Additional information:** Aspiration hazard: Not classified.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### 12.1.1. Acute (short-term) toxicity

For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
dibenzoyl peroxide (94-36-0)	EC <sub>50</sub>	0,11 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	
	EC <sub>50</sub>	0,0711 mg/L	72 h	algae		OECD 201	
	LC <sub>50</sub>	0,0602 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD 203	
	NOEC	0,02 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>		
	NOEC	0,0316 mg/L	96 h	fish			
Dimethyl phthalate (131-11-3)	EC <sub>10</sub>	193,09 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>		
	EC <sub>50</sub>	33 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
	EC <sub>50</sub>	259,76 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>		
	EC <sub>50</sub>	39,9 mg/L	96 h	algae	<i>Raphidocelis subcapitata</i>		
	LC <sub>50</sub>	39 mg/L	96 h	fish	<i>Pimephales promelas</i>		
	LC <sub>50</sub>	50 mg/L	96 h	fish	<i>Lepomis macrochirus</i>		
ethanediol (107-21-1)	EC <sub>50</sub>	10000 mg/L	16 h	bacteria	<i>Pseudomonas putida</i>		
	EC <sub>50</sub>	> 10000 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
	EC <sub>50</sub>	6500 – 7500 mg/L	96 h	algae	<i>Pseudokirchneriella subcapitata</i>		
	LC <sub>50</sub>	18500 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>		

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## 12.1.2. Chronic (long-term) toxicity

### For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
dibenzoyl peroxide (94-36-0)	EC <sub>10</sub>	0,001 mg/l	21 days	crustacea	<i>Daphnia magna</i>		
Dimethyl phthalate (131-11-3)	NOEC	9,6 mg/l	21 days	crustacea	<i>Daphnia magna</i>		
	NOEC	11 mg/l	102 days	fish	<i>Oncorhynchus mykiss</i>		

## 12.2. Persistence and degradability

### 12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

### 12.2.2. Biodegradation

#### For components

Substance (CAS Nr.)	Type	Rate	Time	Evaluation	Method	Remark
dibenzoyl peroxide (94-36-0)	biodegradability	71 %	28 days		OECD 301 D	
Dimethyl phthalate (131-11-3)	biodegradability	96 – 98 %	28 days		OECD 301 E	
ethanediol (107-21-1)	BOD	1245 mg/g				
ethanediol (107-21-1)	biodegradability	56 %	28 days		OECD 301 C	

## 12.3. Bioaccumulative potential

### 12.3.1. Partition coefficient

#### For components

Substance (CAS Nr.)	Media	Value	Temperature	pH	Concentration	Method
dibenzoyl peroxide (94-36-0)	Octanol-water (log Pow)	3,2				OECD 117
Dimethyl phthalate (131-11-3)	Octanol-water (log Pow)	1,56				OECD 107
ethanediol (107-21-1)	Octanol-water (log Pow)	-1,34				

### 12.3.2. Bioconcentration factor (BCF)

#### For components

Substance (CAS Nr.)	Type	Organism	Value	Duration	Evaluation	Method	Remark
dibenzoyl peroxide (94-36-0)	BCF		66,6				
Dimethyl phthalate (131-11-3)	BCF	<i>Lepomis macrochirus</i>	57	21 days		OECD 305	

## 12.4. Mobility in soil

### 12.4.1. Known or predicted distribution to environmental compartments

No information.

### 12.4.2. Surface tension

No information.

### 12.4.3. Adsorption/Desorption

#### For components

Substance (CAS Nr.)	Type	Criterion	Value	Evaluation	Method	Remark
dibenzoyl peroxide (94-36-0)	Soil	log KOC	3,8		OECD 121	
Dimethyl phthalate (131-11-3)	Soil	log KOC	1,57			

## 12.5. Results of PBT and vPvB assessment

No evaluation.

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Creation date: **24.2.2017** · Revision: **18.6.2019** · Version: **1**

## 12.6. Other adverse effects

No information.

## 12.7. Additional information

### For product

Water hazard class 1 (self-assessment): slightly hazardous for water.  
Very toxic to aquatic life with long lasting effects.  
Do not allow to reach ground water, water courses or sewage system.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### 13.1.1. Product / Packaging disposal

##### Waste chemical

Dispose according to regulations. Dilute product with suitable inert liquid to a peroxide concentration below 10% and subsequently dispose of according to the refuse disposal act. Do not dispose together with household garbage. Do not allow product to reach drains/sewage systems.

##### Waste codes / waste designations according to LoW

16 05 06\* - laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

##### Packaging

Deliver completely emptied containers to approved waste disposal authorities.

#### 13.1.2. Waste treatment-relevant information

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#### 13.1.3. Sewage disposal-relevant information

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#### 13.1.4. Other disposal recommendations

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## SECTION 14. TRANSPORT INFORMATION

### 14.1. UN number

UN 3108

### 14.2. UN proper shipping name

ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)

### 14.3. Transport hazard class(es)

5.2

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Additional labeling: ENVIRONMENTALLY HAZARDOUS

IMDG: MARINE POLLUTANT

### 14.6. Special precautions for user

#### Limited quantities

500 g



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## Tunnel restriction code

(D)

## IMDG flashpoint

50 °C, c.c.

## IMDG EmS

F-J, S-R

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Goods may not be carried in bulk in bulk containers, containers or vehicles.

## SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

#### 15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

#### 15.1.2. Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

Seveso: E1 - Hazardous to the aquatic environment.

Seveso P6b: SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES.

### 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16. OTHER INFORMATION

### Indication of changes

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### Abbreviations and acronyms

ATE - Acute Toxicity Estimate

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)

EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)

EEC - European Economic Community

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EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC<sub>50</sub> - Lethal Concentration to 50 % of a test population  
LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

## Key literature references and sources for data

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## List of relevant H 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.

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- Provided correct labelling of the product
- Compliance with the local legislation
- Provided correct classification of the product
- Provided adequate transport data

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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.