

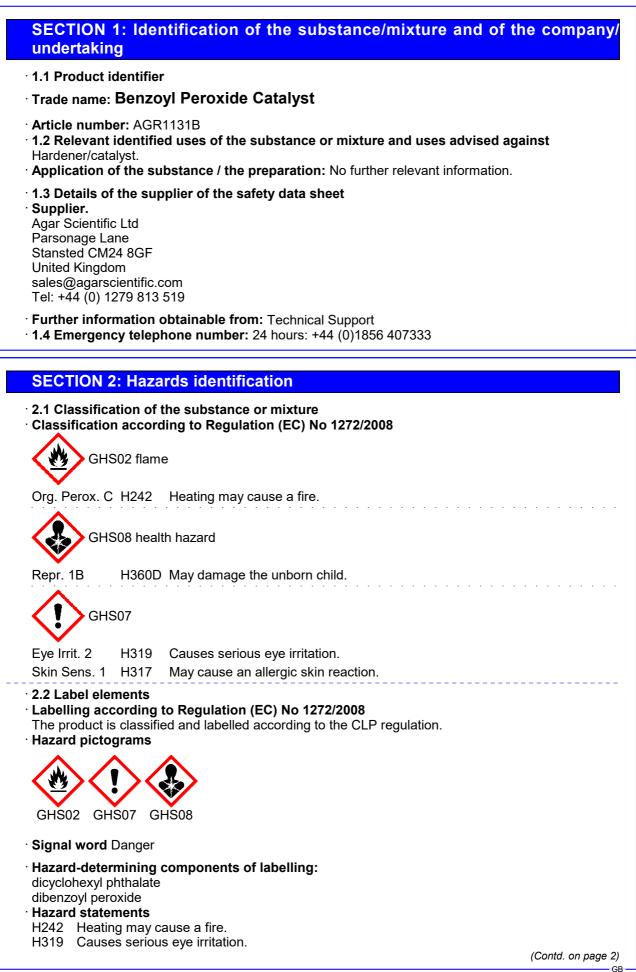
# Safety data sheet

according to 1907/2006/EC, Article 31

## Date Printed 27.02.2019

Version number 1

Revision Date 27.02.2019



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H317 Mayo	cause an allergic skin reaction.
H360D May o	damage the unborn child.
Precautiona	ry statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition
	sources. No smoking.
P305+P351+	P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P410	Protect from sunlight.
P411	Store at temperatures not exceeding 25°C.
P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.
<sup>·</sup> 2.3 Other ha	zards
· Results of P	BT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

## **SECTION 3: Composition/information on ingredients**

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

<ul> <li>Dangerous components:</li> </ul>
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CAS: 94-36-0	dibenzoyl peroxide	53.0%
EINECS: 202-327-6	🤣 🚸 Org. Perox. B, H241; 🚯 Eye Irrit. 2, H319; Skin Sens. 1, H317	
	dicyclohexyl phthalate	47.0%
EINECS: 201-545-9	🚸 Repr. 1B, H360D; 🚸 Skin Sens. 1, H317	

· SVHC

84-61-7 dicyclohexyl phthalate

• 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:

Immediately remove any clothing soiled by the product.

Take off all contaminated clothing immediately. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### After inhalation:

Supply fresh air.

No adverse effects are anticipated from inhalation.

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Call a physician immediately.

· After skin contact: Wash with water and soap and rinse thoroughly.

• After eye contact: Rinse opened eye under running water. If symptoms persist, consult a doctor.

· After swallowing:

Clean mouth with water and drink afterwards plenty of water. If a person vomits when lying on his back, place him in the recovery position. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

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

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• **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:

Use fire extinguishing methods suitable to surrounding conditions.

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

• For safety reasons unsuitable extinguishing agents: High volume water jet.

5.2 Special hazards arising from the substance or mixture

Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

- 5.3 Advice for firefighters
- · Protective equipment: Use personal protective equipment.
- Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## **SECTION 6: Accidental release measures**

• 6.1 Personal precautions, protective equipment and emergency procedures Wear protective gloves and glasses.

Wear respiratory protection. Wear personal protective equipment.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. Avoid subsoil penetration. Do not allow material to contaminate ground water system. Do not contaminate water. If the product contaminates rivers and lakes or drains inform respective authorities. Do not let product enter drains.
- $^{\circ}$  6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Remove mechanically and with care (e.g. with clean polyethylene plastic shovel). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Never add other substances or waste material to product residue. Offer surplus and non-recyclable solutions to a licensed disposal company.

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

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

Information about fire - and explosion protection:

The dried resin is combustible, similar to wood. Burning dry resin emits dense, black smoke. As latex, material is not combustible.

Protect against electrostatic charges.

Extinguishing media: Water fog - dried resin only. No data available.

• 7.2 Conditions for safe storage, including any incompatibilities

Avoid impurities (e.g. rust, dust, ash), risk of decomposition.

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· Storage:

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- Requirements to be met by storerooms and receptacles:
- Electrical installations/ working materials must comply with technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed. No smoking.
- Storage temperature: < 30 °C.
- **Information about storage in one common storage facility:** Store apart from other dangerous and incompatible substances.
- Further information about storage conditions: Keep container tightly sealed.
- 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 Long-term value: 5 mg/m<sup>3</sup>

#### 84-61-7 dicyclohexyl phthalate

WEL Long-term value: 5 mg/m<sup>3</sup>

#### ·DNELs

dibenzoyl peroxide: End Use: Professional use. Exposure routes: Inhalation. Potential health effects: Long-term systemic effects. Value: 11.75 mg/m3.

dicyclohexyl phthalate: End Use: Professional use. Exposure routes: Skin contact. Potential health effects: Long-term systemic effects. Value: 6.6 mg/kg.

#### · PNECs

dibenzoyl peroxide: Fresh water: 0.602 µg/l Marine water: 0.0602 µg/l Intermittent use/release: 0.602 µg/l Sewage treatment plant: 0.35 mg/l Fresh water sediment: 0.338 mg/kg Soil value: 0.0758 mg/kg.

dicyclohexyl phthalate: Fresh water: 3.62 µg/l Marine sediment: 0.362 µg/l Intermittent use/release: 36.2 µg/l Sewage treatment plant: 10 mg/l Fresh water sediment: 1.06 mg/kg Marine sediment: 0.106 mg/kg Soil: 0.21 mg/kg Oral value: 133 g/kg.

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

- · 8.2 Exposure controls Provide adequate ventilation.
- Personal protective equipment:

• General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.

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Remove all soiled and contaminated clo	
Wash hands before breaks and at the electron Store protective clothing separately.	nd of work.
Avoid contact with the eyes.	
Avoid contact with the eyes and skin.	
Respiratory protection:	
	n use respiratory filter device. In case of intensive or longer
exposure use self-contained respiratory Short duration filter unit: Filter A.	protective device.
· Protection of hands:	
đh	
Protective gloves	
i lotocitto gioreo	
The glove material has to be import	neable and resistant to the product/ the substance/ the
preparation.	leable and resistant to the product/ the substance/ the
Due to missing tests no recommendat	ion to the glove material can be given for the product/ the
preparation/ the chemical mixture.	
degradation	deration of the penetration times, rates of diffusion and the
· Material of gloves	
The selection of the suitable gloves doe	s not only depend on the material, but also on further marks
	to manufacturer. As the product is a preparation of several
to be checked prior to the application.	material can not be calculated in advance and has therefore
Material: butyl rubber.	
Glove thickness: 0.5 mm	
Breakthrough time: ≥8 h	
Remark: Skin should be washed after co	ontact.
<ul> <li>Penetration time of glove material</li> </ul>	
	found out by the manufacturer of the protective gloves and
has to be observed. • Eye protection:	
Tightly sealed goggles	
• •	ve and wash contaminated clothing before re-use.
Limitation and supervision of exposu	w material to contaminate ground water system. Do not
	ntaminates rivers and lakes or drains inform respective
authorities. Do not let product enter drai	
SECTION 9: Physical and chem	ical properties
<ul> <li>9.1 Information on basic physical and General Information</li> </ul>	chemical properties
· Appearance:	
Form:	Solid
Colour:	White
· Odour:	Aromatic
Odour threshold:	Not determined.
· pH-value:	Not applicable.
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<ul> <li>Change in condition</li> <li>Melting point/freezing point:</li> <li>Initial boiling point and boiling range</li> </ul>	Undetermined. : Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gas):	May cause fire.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
<sup>·</sup> Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapour pressure:	Not applicable.
<ul> <li>Density:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	Not determined. Not determined. Not applicable. Not applicable.
<ul> <li>Solubility in / Miscibility with water:</li> </ul>	Insoluble.
· Partition coefficient: n-octanol/water:	Not determined.
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> </ul>	Not applicable. Not applicable.
<ul> <li>Solvent content:</li> <li>VOC (EC)</li> <li>9.2 Other information</li> </ul>	0.00 % No further relevant information available.

### **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **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
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Oral LD50 7,710 mg/kg (rat)

Inhalative LC50/4 h 24.3 mg/l (rat)

· Skin corrosion/irritation No data available.

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Serious eye damage/irritation

Causes serious eye irritation.

No data available.

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• **Respiratory or skin sensitisation** May cause an allergic skin reaction.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

- · 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
- May damage the unborn child.
- 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

EC50 2.91 mg/kg (Daphnia magna) ((48h))

- **12.2 Persistence and degradability** No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it 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.

• Recommendation: Disposal must be made according to official regulations.

## **SECTION 14: Transport information**

· 14.1 UN-Number · ADR, ADN, IMDG, IATA	UN3104
<ul> <li>14.2 UN proper shipping name</li> </ul>	
ADR	3104 ORGANIC PEROXIDE TYPE C, SOLID, ENVIRONMENTALLY HAZARDOUS
· ADN	3104
· IMDG, IATA	ORGANIC PEROXIDE TYPE C, SOLID
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14.3 Transport hazard class(es)	
ADR	
Class	5.2 Organic peroxides.
IMDG, IATA	
\$2	
Class	5.2 Organic peroxides.
Label	5.2
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards: Marine pollutant:	Not applicable. Yes
•	
14.6 Special precautions for user EMS Number:	Warning: Organic peroxides. F-J,S-R
Stowage Category	D
Stowage Code	SW1 Protected from sources of heat.
Segregation Code	SG35 Stow "separated from" acids.
	SG36 Stow "separated from" alkalis.
14.7 Transport in bulk according to An of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
IMDG Limited quantities (LQ)	100 g
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
UN "Model Regulation":	UN 3104 ORGANIC PEROXIDE TYPE C, SOLI
	5.2, II, ENVIRONMENTALLY HAZARDOUS

## **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

- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements  $50\ t$
- $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 30

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· National regulations:

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· Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

84-61-7 dicyclohexyl phthalate

• 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 and should assist the user with the safe handling of this material when properly applied. 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.

H360D May damage the unborn child.

#### · Department issuing SDS: Sales department

· Contact:

sales@agarscientific.com Tel: +44 (0) 1279 813 519

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) VOC: Volatile Organic Compounds (USA, EU) 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 SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Org. Perox. B: Organic peroxides – Type B Org. Perox. C: Organic peroxides – Type C/D Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Skin Sens. 1: Skin sensitisation - Category 1 Repr. 1B: Reproductive toxicity - Category 1B \*\* Data compared to the previous version altered.

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