

# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version	Revision Date:	SDS Number:	Date of last issue: 19.09.2022
1.1	28.03.2023	600000000230	Date of first issue: 19.09.2022

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

#### 1.1 Product identifier

Trade name : BCHPC-40-SAQ1

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

Use of the Sub-  
stance/Mixture : polymerisation initiators

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

Company : United Initiators GmbH  
Dr.-Gustav-Adolph-Str. 3  
82049 Pullach

Telephone : +49 / 89 / 74422 – 0

E-mail address of person  
responsible for the SDS : contact@united-in.com

#### 1.4 Emergency telephone number

+44 1235 239670

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Organic peroxides, Type F H242: Heating may cause a fire.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Long-term (chronic) aquatic hazard, Category 3 H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**


# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version 1.1      Revision Date: 28.03.2023      SDS Number: 600000000230      Date of last issue: 19.09.2022  
Date of first issue: 19.09.2022

---

- Hazard pictograms : 
- Signal word : Warning
- Hazard statements : H242 Heating may cause a fire.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements : **Prevention:**  
P220 Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances /combustible materials.  
P233 Keep container tightly closed.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- Response:**  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
- Storage:**  
P411 Store at temperatures not exceeding 30 °C.
- Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:  
Di(4-tert-butylcyclohexyl) peroxydicarbonate (CAS-No. 15520-11-3)

### 2.3 Other hazards

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

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Organic Peroxide  
aqueous dispersion

### Components

# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version 1.1      Revision Date: 28.03.2023      SDS Number: 600000000230      Date of last issue: 19.09.2022  
Date of first issue: 19.09.2022

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Di(4-tert-butylcyclohexyl) peroxydi-carbonate	15520-11-3 239-557-1 01-2119966122-42-0002	Org. Perox. C; H242 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 40 - < 45

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.  
Call a physician immediately.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.  
If breathed in, move person into fresh air.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Wash contaminated clothing before re-use.  
If on skin, rinse well with water.  
If on clothes, remove clothes.  
If symptoms persist, call a physician.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Call a physician immediately.

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

- Risks : May cause an allergic skin reaction.

# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version	Revision Date:	SDS Number:	Date of last issue: 19.09.2022
1.1	28.03.2023	60000000230	Date of first issue: 19.09.2022

---

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

Treatment : Treat symptomatically and supportively.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray jet  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may auto-ignite.  
Flash back possible over considerable distance.  
Vapours may form explosive mixtures with air.  
Cool closed containers exposed to fire with water spray.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

Specific extinguishing methods : Do not use a solid water stream as it may scatter and spread fire.  
Remove undamaged containers from fire area if it is safe to do so.  
Use water spray to cool unopened containers.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Remove all sources of ignition.

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# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version	Revision Date:	SDS Number:	Date of last issue: 19.09.2022
1.1	28.03.2023	600000000230	Date of first issue: 19.09.2022

---

Follow safe handling advice and personal protective equipment recommendations.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Never return spills in original containers for re-use.  
Treat recovered material as described in the section "Disposal considerations".

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Contact with incompatible substances can cause decomposition at or below SADT.  
Clear spills immediately.  
Suppress (knock down) gases/vapours/mists with a water spray jet.  
To clean the floor and all objects contaminated by this material, use plenty of water.  
Soak up with inert absorbent material.  
Isolate waste and do not reuse.  
Non-sparking tools should be used.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Advice on safe handling : Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Avoid formation of aerosol.  
Take precautionary measures against static discharges.  
Never return any product to the container from which it was originally removed.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Avoid confinement.  
Keep away from heat, hot surfaces, sparks, open flames and

# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version 1.1      Revision Date: 28.03.2023      SDS Number: 600000000230      Date of last issue: 19.09.2022  
Date of first issue: 19.09.2022

---

other ignition sources. No smoking.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash thoroughly after handling.  
For personal protection see section 8.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Protect from contamination.

- Advice on protection against fire and explosion : Keep away from heat and sources of ignition. Use only explosion-proof equipment. Keep away from combustible material.
- Hygiene measures : Keep away from food and drink. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

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

- Requirements for storage areas and containers : Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Store in accordance with the particular national regulations.
- Advice on common storage : Keep away from strong acids, bases, heavy metal salts and other reducing substances.
- Recommended storage temperature : 5 - 20 °C
- Further information on storage stability : No decomposition if stored normally.

### 7.3 Specific end use(s)

- Specific use(s) : For further information, refer to the product technical data sheet.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
Di(4-tert-	Workers	Inhalation	Long-term systemic	5.87 mg/m3

# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version 1.1      Revision Date: 28.03.2023      SDS Number: 60000000230      Date of last issue: 19.09.2022  
Date of first issue: 19.09.2022

butylcyclohexyl) peroxydicarbonate			effects	
	Workers	Skin contact	Long-term systemic effects	16.67 mg/kg bw/day

### Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Di(4-tert-butylcyclohexyl) peroxydicarbonate	Fresh water	0.39 mg/l
	Marine water	0.039 mg/l
	Intermittent use/release	0.39 mg/l
	Fresh water sediment	4685 mg/kg
	Marine sediment	468.5 mg/kg
	Soil	936.8 mg/kg
	Sewage treatment plant	2 mg/l

## 8.2 Exposure controls

### Engineering measures

Minimize workplace exposure concentrations.

### Personal protective equipment

Eye protection : Tightly fitting safety goggles  
Please wear suitable protective goggles. Also wear face protection if there is a splash hazard.  
Ensure that eyewash stations and safety showers are close to the workstation location.  
Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.

### Hand protection

Material : butyl-rubber  
Break through time : 480 min  
Glove thickness : 0.47 mm

Material : Nitrile rubber  
Break through time : 480 min  
Glove thickness : 0.40 mm

Remarks : The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical re-

# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version	Revision Date:	SDS Number:	Date of last issue: 19.09.2022
1.1	28.03.2023	60000000230	Date of first issue: 19.09.2022

---

sistance data and an assessment of the local exposure potential.

Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.

Wear as appropriate:

Flame retardant antistatic protective clothing.

- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
- Filter type : ABEK-filter
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- 

### SECTION 9: Physical and chemical properties

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

- Appearance : liquid
- Colour : white
- Odour : characteristic
- Odour Threshold : not determined
- Melting point/range : < 0 °C
- Boiling point/boiling range : Decomposition: Decomposes below the boiling point.
- Flash point : Not applicable
- Flammability (solid, gas) : Not applicable
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available
- Vapour pressure : 23.38 hPa (20 °C)
- Relative vapour density : not determined
- Relative density : not determined
- Density : 1 g/cm<sup>3</sup> (20 °C)



# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version	Revision Date:	SDS Number:	Date of last issue: 19.09.2022
1.1	28.03.2023	600000000230	Date of first issue: 19.09.2022

---

Solubility(ies)  
Water solubility : No data available

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : not determined

Viscosity  
Viscosity, dynamic : < 200 mPa.s (20 °C)

Viscosity, kinematic : not determined

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.  
Organic peroxide

### 9.2 Other information

Self-Accelerating decomposition temperature (SADT) : 40 °C  
Method: UN-Test H.4  
SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.

Flammability (liquids) : Organic peroxide

Self-heating substances : The substance or mixture is not classified as self heating.

Self-ignition : The substance or mixture is not classified as pyrophoric.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Protect from contamination.  
Contact with incompatible substances can cause decomposition at or below SADT.  
Heat, flames and sparks.  
Avoid confinement.

# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version 1.1      Revision Date: 28.03.2023      SDS Number: 600000000230      Date of last issue: 19.09.2022  
Date of first issue: 19.09.2022

---

### 10.5 Incompatible materials

Materials to avoid : Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents

### 10.6 Hazardous decomposition products

Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Components:

##### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The component/mixture is minimally toxic after single ingestion.

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

#### **Skin corrosion/irritation**

Not classified based on available information.

#### Product:

Remarks : May cause skin irritation in susceptible persons.

#### Components:

##### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### **Serious eye damage/eye irritation**

Not classified based on available information.

#### Product:

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version 1.1      Revision Date: 28.03.2023      SDS Number: 600000000230      Date of last issue: 19.09.2022  
Date of first issue: 19.09.2022

---

### Components:

#### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

#### **Respiratory or skin sensitisation**

##### **Skin sensitisation**

May cause an allergic skin reaction.

##### **Respiratory sensitisation**

Not classified based on available information.

### Product:

Remarks : Causes sensitisation.

### Components:

#### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

Species : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitisation by skin contact.

#### **Germ cell mutagenicity**

Not classified based on available information.

### Components:

#### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: negative

Method: OECD Test Guideline 476  
Result: negative

Method: OECD Test Guideline 487  
Result: negative

Genotoxicity in vivo : Remarks: No data available

#### **Carcinogenicity**

Not classified based on available information.

### Components:

#### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

Remarks : This information is not available.

# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version 1.1      Revision Date: 28.03.2023      SDS Number: 600000000230      Date of last issue: 19.09.2022  
Date of first issue: 19.09.2022

---

### Reproductive toxicity

Not classified based on available information.

#### Components:

#### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

Effects on fertility : Remarks: This information is not available.

Effects on foetal development : Remarks: This information is not available.

### STOT - single exposure

Not classified based on available information.

#### Components:

#### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

Remarks : No data available

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### Components:

#### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

Species : Rat  
NOAEL : 500 mg/kg  
LOAEL : 1,000 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Method : OECD Test Guideline 407

### Aspiration toxicity

Not classified based on available information.

#### Components:

#### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

No data available

### Further information

#### Product:

Remarks : No data available

# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version 1.1      Revision Date: 28.03.2023      SDS Number: 600000000230      Date of last issue: 19.09.2022  
Date of first issue: 19.09.2022

---

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 704 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 42 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 39 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

#### 12.2 Persistence and degradability

##### Components:

##### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

- Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301B

#### 12.3 Bioaccumulative potential

##### Components:

##### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

- Bioaccumulation : Bioconcentration factor (BCF): 2,926
- Partition coefficient: n-octanol/water : log Pow: 8.34  
Remarks: Calculation

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

##### Product:

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

# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version	Revision Date:	SDS Number:	Date of last issue: 19.09.2022
1.1	28.03.2023	600000000230	Date of first issue: 19.09.2022

---

### 12.6 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.  
Dispose of in accordance with local regulations.

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## SECTION 14: Transport information

### 14.1 UN number

ADR : UN 3119

RID : UN 3119  
Not permitted for transport

IMDG : UN 3119

IATA : UN 3119  
Not permitted for transport

### 14.2 UN proper shipping name

ADR : ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED  
(DI-(4-tert-BUTYLCYCLOHEXYL)PEROXYDICARBONATE)

RID : ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED  
Not permitted for transport

IMDG : ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED  
(DI-(4-tert-BUTYLCYCLOHEXYL)PEROXYDICARBONATE)

IATA : ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE

---

# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version	Revision Date:	SDS Number:	Date of last issue: 19.09.2022
1.1	28.03.2023	600000000230	Date of first issue: 19.09.2022

---

CONTROLLED  
Not permitted for transport

### 14.3 Transport hazard class(es)

**ADR** : 5.2  
**RID** : Not permitted for transport  
**IMDG** : 5.2  
**IATA** : Not permitted for transport

### 14.4 Packing group

**ADR**  
Packing group : Not assigned by regulation  
Classification Code : P2  
Hazard Identification Number : 539  
Labels : 5.2  
Tunnel restriction code : (D)

**RID** : Not permitted for transport

**IMDG**  
Packing group : Not assigned by regulation  
Labels : 5.2  
EmS Code : F-F, S-R

**IATA (Cargo)** : Not permitted for transport  
**IATA (Passenger)** : Not permitted for transport

### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : no

**RID** : Not permitted for transport

**IMDG**  
Marine pollutant : no

### 14.6 Special precautions for user

#### Additional advice

Temperature controlled transport.:  
Control temperature : 30 °C  
Emergency temperature : 35 °C

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

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

Not applicable for product as supplied.

# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version	Revision Date:	SDS Number:	Date of last issue: 19.09.2022
1.1	28.03.2023	600000000230	Date of first issue: 19.09.2022

### SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

- |  |   |  |
|--|---|--|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) | : | Conditions of restriction for the following entries should be considered: Number on list 3 |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).  | : | Not applicable   |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer  | : | Not applicable   |
| Regulation (EU) 2019/1021 on persistent organic pollutants (recast)  | : | Not applicable   |
| Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals                 | : | Not applicable   |
| UK REACH List of substances subject to authorisation (Annex XIV)   | : | Not applicable   |

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

		Quantity 1	Quantity 2
P6b	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES	50 t	200 t

#### Other regulations:

Gefahrgruppe nach DGUV 13 Vorschrift 13 (bisher BGV B4): IV (German regulatory requirements)

#### The components of this product are reported in the following inventories:

- |           |   |  |
|-----------|---|--|
| TCSI (TW) | : | On the inventory, or in compliance with the inventory  |
| TSCA (US) | : | All substances listed as active on the TSCA inventory  |
| AIRC (AU) | : | On the inventory, or in compliance with the inventory  |
| DSL (CA)  | : | All components of this product are on the Canadian DSL |



# SAFETY DATA SHEET

## BCHPC-40-SAQ1



Version	Revision Date:	SDS Number:	Date of last issue: 19.09.2022
1.1	28.03.2023	600000000230	Date of first issue: 19.09.2022

---

KECI (KR) : On the inventory, or in compliance with the inventory

PICCS (PH) : On the inventory, or in compliance with the inventory

IECSC (CN) : On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

This information is not available.

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## SECTION 16: Other information

### Further information

Other information : This safety datasheet only contains information relating to safety and does not replace any product information or product specification.  
These safety instructions also apply to empty packaging which may still contain product residues.

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

Org. Perox. F H242  
Skin Sens. 1 H317  
Aquatic Chronic 3 H412

### Classification procedure:

Based on product data or assessment  
Calculation method  
Calculation method

### Full text of H-Statements

H242 : Heating may cause a fire.  
H317 : May cause an allergic skin reaction.  
H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard  
Org. Perox. : Organic peroxides  
Skin Sens. : Skin sensitisation

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

# SAFETY DATA SHEET

## BCHPC-40-SAQ1



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

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

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