SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

BP-30-FT1

Version 3.0  Revision Date: 20.02.2020  SDS Number: 600000000188  Date of last issue: 08.02.2018  Date of first issue: 18.01.2017

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

1.1 Product identifier
Trade name : BP-30-FT1

1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of the Substance/Mixture : Curing chemical

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
+49 / 89 / 74422 – 0 (24 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic peroxides, Type F</td>
<td>H242: Heating may cause a fire.</td>
</tr>
<tr>
<td>Eye irritation, Category 2</td>
<td>H319: Causes serious eye irritation.</td>
</tr>
<tr>
<td>Skin sensitisation, Category 1</td>
<td>H317: May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Reproductive toxicity, Category 1B</td>
<td>H360D: May damage the unborn child.</td>
</tr>
<tr>
<td>Short-term (acute) aquatic hazard, Category 1</td>
<td>H400: Very toxic to aquatic life.</td>
</tr>
<tr>
<td>Long-term (chronic) aquatic hazard, Category 1</td>
<td>H410: Very toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)
Hazard pictograms: 

Signal word: Danger

Hazard statements:
- H242 Heating may cause a fire.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H360D May damage the unborn child.
- H410 Very toxic 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.
- P235 Keep cool.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
- 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.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337 + P313 If eye irritation persists: 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.

Disposal:
- P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
- Dicyclohexyl phthalate (CAS-No. 84-61-7)
- Dibenzoyl peroxide (CAS-No. 94-36-0)

Additional Labelling
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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Chemical nature : Organic Peroxide
Solid mixture

Components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No. EC-No.</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>dicyclohexyl phthalate</td>
<td>84-61-7 201-545-9 607-719-00-4 01-2119978223-34</td>
<td>Skin Sens. 1; H317 Repr. 1B; H360D Aquatic Chronic 3; H412</td>
<td>&gt;= 30 - &lt; 35</td>
</tr>
<tr>
<td>Dibenzoyl peroxide</td>
<td>94-36-0 202-327-6 617-008-00-0 01-2119511472-50-0006</td>
<td>Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410</td>
<td>&gt;= 25 - &lt; 30</td>
</tr>
</tbody>
</table>

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.
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<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date:</th>
<th>SDS Number:</th>
<th>Date of last issue:</th>
<th>Date of first issue:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td>20.02.2020</td>
<td>600000000188</td>
<td>08.02.2018</td>
<td>18.01.2017</td>
</tr>
</tbody>
</table>

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. Causes serious eye irritation. May damage the unborn child.

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

**Treatment**: Treat symptomatically and supportively.

**SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

**Suitable extinguishing media**: Water spray jet
Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical

**Unsuitable extinguishing media**: High volume water jet

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

**Specific hazards during firefighting**: 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. The product burns violently. Flash back possible over considerable distance. Vapours may form explosive mixtures with air. The product will float on water and can be reignited on surface water.
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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Remove all sources of ignition. Follow safe handling advice and personal protective equipment recommendations. 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.

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. 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 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: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. 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
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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 tem-
perature : < 30 °C

Further information on stor-
age 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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>dicyclohexyl phthalate</td>
<td>84-61-7</td>
<td>OELV - 8 hrs (TWA)</td>
<td>5 mg/m3</td>
<td>IE OEL</td>
</tr>
<tr>
<td>Dibenzoyl peroxide</td>
<td>94-36-0</td>
<td>OELV - 8 hrs (TWA)</td>
<td>5 mg/m3</td>
<td>IE OEL</td>
</tr>
</tbody>
</table>
| Silicon dioxide          | 7631-86-9| OELV - 8 hrs (TWA) (Respira-
|                         |          | ble dust)                     | 2.4 mg/m3          | IE OEL        |
| Further information      |          | Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit value should be used |
| Further information      |          | Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis, Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit value should be used |
| Further information      |          | Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit value should be used |
Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>End Use</th>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dibenzoyl peroxide</td>
<td>Workers</td>
<td>Inhalation</td>
<td>Long-term systemic effects</td>
<td>11.75 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Skin contact</td>
<td>Long-term systemic effects</td>
<td>6.6 mg/kg bw/day</td>
</tr>
<tr>
<td>dicyclohexyl phthalate</td>
<td>Workers</td>
<td>Inhalation</td>
<td>Long-term systemic effects</td>
<td>35.2 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Skin contact</td>
<td>Long-term systemic effects</td>
<td>0.5 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>Long-term systemic effects</td>
<td>0.87 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Skin contact</td>
<td>Long-term systemic effects</td>
<td>0.25 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Ingestion</td>
<td>Long-term systemic effects</td>
<td>0.25 mg/kg bw/day</td>
</tr>
<tr>
<td>Silicon dioxide</td>
<td>Workers</td>
<td>Inhalation</td>
<td>Long-term systemic effects</td>
<td>4 mg/m³</td>
</tr>
</tbody>
</table>

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Environmental Compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dibenzoyl peroxide</td>
<td>Fresh water</td>
<td>0.000602 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>&lt; 0.0001 mg/l</td>
</tr>
<tr>
<td></td>
<td>Intermittent use/release</td>
<td>0.000602 mg/l</td>
</tr>
<tr>
<td></td>
<td>Sewage treatment plant</td>
<td>0.35 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>0.338 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Soil</td>
<td>0.0758 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Oral</td>
<td>6.67 mg/kg</td>
</tr>
<tr>
<td>dicyclohexyl phthalate</td>
<td>Fresh water</td>
<td>0.036 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>0 mg/l</td>
</tr>
<tr>
<td></td>
<td>Sewage treatment plant</td>
<td>10 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>1.06 mg/kg dry weight (d.w.)</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td>0.106 mg/kg dry weight (d.w.)</td>
</tr>
</tbody>
</table>

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.
Hand protection
Material: butyl-rubber
Break through time: >= 480 min
Glove thickness: 0.5 mm

Remarks: 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 resistance data and an assessment of the local exposure potential.

Respiratory protection: In the case of dust or aerosol formation use respirator with an approved filter.

Filter type: Filter type P

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance: powder
Colour: white
Odour: aromatic
Odour Threshold: No data available
pH: No data available
Melting point/range: Decomposition: Decomposes below the melting point.
Boiling point/boiling range: Not applicable
Flash point: Not applicable
Evaporation rate: 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: No data available
Density: ca. 0.8 g/cm³
Bulk density: ca. 800 kg/m³
Solubility(ies)
  Water solubility: insoluble
Viscosity
  Viscosity, dynamic: Not applicable
  Viscosity, kinematic: Not applicable
Explosive properties: Not explosive
Oxidizing properties: The substance or mixture is not classified as oxidizing.

9.2 Other information

Self-Accelerating decomposition temperature (SADT): 55 ºC
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.

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: Dust may form explosive mixture in 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.
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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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Not classified based on available information.

Components:
dicyclohexyl phthalate:
Acute oral toxicity: LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 423
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity: LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Dibenzoyl peroxide:
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity: LC50 (Rat): > 24.3 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity

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:
dicyclohexyl phthalate:
Result: No skin irritation

Dibenzoyl peroxide:
Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation
Causes serious eye irritation.

Product:
Remarks: Product dust may be irritating to eyes, skin and respiratory system.

Components:
dicyclohexyl phthalate:
Result: No eye irritation

Dibenzoyl peroxide:
Species: Rabbit
Result: Irritation to eyes, reversing within 7 days

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:
dicyclohexyl phthalate:
Exposure routes: Skin contact
Species: Mouse
Result: May cause sensitisation by skin contact.

Dibenzoyl peroxide:
Exposure routes: Skin contact
Species : Mouse
Method : Local lymph node assay (LLNA)
Result : May cause sensitisation by skin contact.

**Germ cell mutagenicity**
Not classified based on available information.

**Components:**

dicyclohexyl phthalate:
Genotoxicity in vitro : Result: negative
Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Remarks: No data available

Germ cell mutagenicity- Assessment : Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Dibenzoyl peroxide:
Genotoxicity in vitro : Result: negative
Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Result: negative
Remarks: In vivo tests did not show mutagenic effects

**Carcinogenicity**
Not classified based on available information.

**Components:**
dicyclohexyl phthalate:
Remarks : This information is not available.

Carcinogenicity - Assessment : Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Dibenzoyl peroxide:
Remarks : Not classified due to data which are conclusive although insufficient for classification.

**Reproductive toxicity**
May damage the unborn child.

**Components:**
dicyclohexyl phthalate:
Reproductive toxicity - Assessment

: Clear evidence of adverse effects on development, based on animal experiments.
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Dibenzoyl peroxide:

Effects on fertility

: Species: Rat, male
Application Route: Oral
General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight
Method: OECD Test Guideline 422

Species: Rat, female
Application Route: Oral
General Toxicity - Parent: NOAEL: 500 mg/kg body weight
Method: OECD Test Guideline 422

Reproductive toxicity - Assessment

: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT - single exposure

Not classified based on available information.

Components:

Dibenzoyl peroxide:

Exposure routes :
Assessment :

: Ingestion
The substance or mixture is not classified as specific target organ toxicant, single exposure.

Dibenzoyl peroxide:

Exposure routes :
Assessment :

: Ingestion
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

dicyclohexyl phthalate:

Species :
NOAEL :
Application Route :
Exposure time :
Method :

: Rat
: 50 mg/kg
: Ingestion
: 90 d
: OECD Test Guideline 408
Aspiration toxicity
Not classified based on available information.

Components:
Dibenzoyl peroxide:
No aspiration toxicity classification

Further information

Product:
Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:
dicyclohexyl phthalate:
Toxicity to fish: LC50 (Oryzias latipes (Orange-red killifish)): > 2 mg/l
Exposure time: 96 h
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates: NOEC (Daphnia magna (Water flea)): > 2 mg/l
Exposure time: 48 h
Remarks: No toxicity at the limit of solubility

Toxicity to algae: ErC50 (Pseudokirchneriella subcapitata (green algae)): > 2 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility

Toxicity to microorganisms: NOEC: > 100 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC: 0.181 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

Ecotoxicology Assessment
Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.
Dibenzoyl peroxide:

Toxicity to fish

EC50 (Oncorhynchus mykiss (rainbow trout)): 0.06 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.11 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae

EC50 (Pseudokirchneriella subcapitata (green algae)): 0.06 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity): 10

Toxicity to microorganisms

EC50 (Bacteria): 35 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

EC10: 0.001 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity): 10

Ecotoxicology Assessment

Acute aquatic toxicity: Very toxic to aquatic life.
Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

dicyclohexyl phthalate:
Biodegradability: Result: Readily biodegradable.

Dibenzoyl peroxide:
Biodegradability: Result: Inherently biodegradable.
12.3 Bioaccumulative potential

**Components:**

**dicyclohexyl phthalate:**
Partition coefficient: n-octanol/water
: log Pow: 4.82 (25 °C)

**Dibenzoyl peroxide:**
Partition coefficient: n-octanol/water
: log Pow: 3.2 (20 °C)

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.

12.6 Other adverse effects

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

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.
 SECTION 14: Transport information

14.1 UN number

<table>
<thead>
<tr>
<th>ADR</th>
<th>RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN 3110</td>
<td>UN 3110</td>
<td>UN 3110</td>
<td>UN 3110</td>
</tr>
</tbody>
</table>

14.2 UN proper shipping name

<table>
<thead>
<tr>
<th>ADR</th>
<th>RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORGANIC PEROXIDE TYPE F, SOLID (DIBENZOYL PEROXIDE)</td>
<td>ORGANIC PEROXIDE TYPE F, SOLID (DIBENZOYL PEROXIDE)</td>
<td>ORGANIC PEROXIDE TYPE F, SOLID (DIBENZOYL PEROXIDE)</td>
<td>Organic peroxide type F, solid (Dibenzoyl peroxide)</td>
</tr>
</tbody>
</table>

14.3 Transport hazard class(es)

<table>
<thead>
<tr>
<th>ADR</th>
<th>RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.2</td>
<td>5.2</td>
<td>5.2</td>
<td>5.2</td>
</tr>
</tbody>
</table>

14.4 Packing group

<table>
<thead>
<tr>
<th>ADR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing group: Not assigned by regulation</td>
</tr>
<tr>
<td>Classification Code: P1</td>
</tr>
<tr>
<td>Hazard Identification Number: 539</td>
</tr>
<tr>
<td>Labels: 5.2</td>
</tr>
<tr>
<td>Tunnel restriction code: (D)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing group: Not assigned by regulation</td>
</tr>
<tr>
<td>Classification Code: P1</td>
</tr>
<tr>
<td>Hazard Identification Number: 539</td>
</tr>
<tr>
<td>Labels: 5.2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing group: Not assigned by regulation</td>
</tr>
<tr>
<td>Labels: 5.2</td>
</tr>
<tr>
<td>EmS Code: F-J, S-R</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IATA (Cargo)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing instruction (cargo): 570</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

BP-30-FT1

Version 3.0 Revision Date: 20.02.2020 SDS Number: 600000000188 Date of last issue: 08.02.2018 Date of first issue: 18.01.2017

| Packing group   | : Not assigned by regulation |
| Labels          | : Organic Peroxides, Keep Away From Heat |

IATA (Passenger)

| Packing instruction (passenger aircraft) | : 570 |
| Packing group   | : Not assigned by regulation |
| Labels          | : Organic Peroxides, Keep Away From Heat |

14.5 Environmental hazards

ADR
Environmentally hazardous : yes

RID
Environmentally hazardous : yes

IMDG
Marine pollutant : yes

14.6 Special precautions for user

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.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): dicyclohexyl phthalate

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, Conditions of restriction for the following entries should be considered:

### Environmental Hazards

<table>
<thead>
<tr>
<th>Substances and Mixtures and Organic Peroxides</th>
<th>Quantity 1</th>
<th>Quantity 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1 ENVIRONMENTAL HAZARDS</td>
<td>100 t</td>
<td>200 t</td>
</tr>
<tr>
<td>P6b SELF-REACTIVE SUBSTANCES AND MIXTURES AND ORGANIC PEROXIDES</td>
<td>50 t</td>
<td>200 t</td>
</tr>
</tbody>
</table>

**Other regulations:**

Gefahrgruppe nach § 3 BGV B4: III (German regulatory requirements)

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

**DSL (CA)**: All components of this product are on the Canadian DSL

**AICS (AU)**: On the inventory, or in compliance with the inventory

**ENCS (JP)**: On the inventory, or in compliance with the inventory

**ISHL (JP)**: On the inventory, or in compliance with the inventory

**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

**TCSI (TW)**: On the inventory, or in compliance with the inventory

**TSCA (US)**: On TSCA Inventory

### 15.2 Chemical safety assessment

Chemical Safety Assessments have been carried out for these substances. For further information see eSDS.
SECTION 16: Other information

Full text of H-Statements

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.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Acute: Short-term (acute) aquatic hazard
Aquatic Chronic: Long-term (chronic) aquatic hazard
Eye Irrit.: Eye irritation
Org. Perox.: Organic peroxides
Repr.: Reproductive toxicity
Skin Sens.: Skin sensitisation
IE OEL: Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1
IE OEL / OELV - 8 hrs (TWA): Occupational exposure limit value (8-hour reference period)
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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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.


Classification of the mixture:

| Org. Perox. F | H242 | Classification procedure: Based on product data or assessment |
| Eye Irrit. 2 | H319 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Repr. 1B | H360D | Calculation method |
| Aquatic Acute 1 | H400 | Calculation method |
| Aquatic Chronic 1 | H410 | Calculation method |

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.

IE / EN