

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DHBP-45-IC2

Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

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

#### 1.1 Product identifier

Trade name : DHBP-45-IC2

#### 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

+49 / 89 / 74422 – 0 (24 h)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

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

Skin irritation, Category 2 H315: Causes skin irritation.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H242 Heating may cause a fire.  
H315 Causes skin irritation.

Precautionary statements : **Prevention:**  
P220 Keep/Store away from clothing/ strong acids, bases,

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DHBP-45-IC2

Version 1.3      Revision Date: 28.07.2020      SDS Number: 600000000176      Date of last issue: 12.01.2018  
Date of first issue: 21.07.2016

---

heavy metal salts and other reducing substances /combustible materials.

P233 Keep container tightly closed.

P235 Keep cool.

P262 Do not get in eyes, on skin, or on clothing.

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.

### Disposal:

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

### 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  
Solid mixture

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane	78-63-7 201-128-1 01-2119875400-42-0001	Org. Perox. C; H242 Skin Irrit. 2; H315	>= 40 - < 45

For explanation of abbreviations see section 16.

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## 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DHBP-45-IC2

Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

---

- 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.  
Rinse mouth thoroughly with water.

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

- Risks : Causes skin irritation.

### 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 (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 de-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DHBP-45-IC2

Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

---

composition 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.  
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.  
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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DHBP-45-IC2

Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

---

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 swallow.<br>Do not breathe vapours/dust.<br>Avoid contact with skin and eyes.<br>Take precautionary measures against static discharges.<br>Never return any product to the container from which it was originally removed.<br>Provide sufficient air exchange and/or exhaust in work rooms.<br>Avoid confinement.<br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Wash thoroughly after handling.<br>For personal protection see section 8.<br>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 the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent |
|---|---|--|

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DHBP-45-IC2



Version 1.3      Revision Date: 28.07.2020      SDS Number: 600000000176      Date of last issue: 12.01.2018  
Date of first issue: 21.07.2016

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 : < 40 °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.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Calcium carbonate	471-34-1	TWA (inhalable dust)	10 mg/m <sup>3</sup>	GB EH40
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			
		TWA (Respirable)	4 mg/m <sup>3</sup>	GB EH40

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DHBP-45-IC2



Version 1.3      Revision Date: 28.07.2020      SDS Number: 600000000176      Date of last issue: 12.01.2018  
Date of first issue: 21.07.2016

		dust)		
Silicon dioxide	7631-86-9	TWA (inhalable dust)	6 mg/m <sup>3</sup> (Silica)	GB EH40
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			
		TWA (Respirable dust)	2.4 mg/m <sup>3</sup> (Silica)	GB EH40

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane	Workers	Skin contact	Long-term systemic effects	15 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	11 mg/m <sup>3</sup>
Silicon dioxide	Workers	Inhalation	Long-term systemic effects	4 mg/m <sup>3</sup>

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

Substance name	Environmental Compartment	Value
2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane	Fresh water	0.0065 mg/l
	Marine water	0.00065 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	72.2 mg/kg
	Marine sediment	7.22 mg/kg
	Soil	14.4 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DHBP-45-IC2

Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

---

### 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

Material : Nitrile rubber  
Break through time : 480 min  
Glove thickness : 0.4 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

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : powder  
Colour : white  
Odour : ether-like  
Odour Threshold : No data available  
pH : No data available



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DHBP-45-IC2

Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

---

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	:	0.51 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	:	
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Viscosity	:	
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
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)	:	90 °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.
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DHBP-45-IC2

Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

---

### 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.

### 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:

#### **2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Method: Expert judgement  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): 4,100 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

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

Causes skin irritation.

#### Product:

Remarks : May cause skin irritation in susceptible persons.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DHBP-45-IC2

Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

---

### Components:

#### **2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:**

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Skin irritation

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

Not classified based on available information.

### Product:

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

#### **2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:**

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

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

##### **Skin sensitisation**

Not classified based on available information.

##### **Respiratory sensitisation**

Not classified based on available information.

### Components:

#### **2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:**

Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.

#### **Germ cell mutagenicity**

Not classified based on available information.

### Components:

#### **2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:**

Genotoxicity in vitro	:	Method: OECD Test Guideline 471 Result: negative
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	:	Method: OECD Test Guideline 476 Result: negative
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Genotoxicity in vivo	:	Species: Mouse (male and female) Application Route: Oral
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DHBP-45-IC2

Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

---

Method: OECD Test Guideline 474  
Result: negative

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:**

Remarks : This information is not available.

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Species: Rat  
Application Route: oral (gavage)  
General Toxicity Maternal: NOAEL: 300 mg/kg body weight  
Method: OECD Test Guideline 414

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Repeated dose toxicity**

### **Components:**

#### **2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:**

Species : Rat  
NOAEL : 200 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Method : OECD Test Guideline 407

### **Aspiration toxicity**

Not classified based on available information.

### **Further information**

### **Product:**

Remarks : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DHBP-45-IC2

Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

---

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:**

Toxicity to fish : LC50 (*Oryzias latipes* (Orange-red killifish)): 4.5 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): > 0.236 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: No toxicity at the limit of solubility

NOEC (*Pseudokirchneriella subcapitata* (green algae)): 1.88 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0.02 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Method: OECD Test Guideline 211  
Remarks: No toxicity at the limit of solubility

##### **Ecotoxicology Assessment**

Acute aquatic toxicity : No toxicity at the limit of solubility

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

#### 12.2 Persistence and degradability

##### Components:

##### **2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:**

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301D  
Remarks: Not classified due to data which are conclusive although insufficient for classification.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DHBP-45-IC2

Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

---

### 12.3 Bioaccumulative potential

#### Components:

##### **2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:**

Bioaccumulation : Bioconcentration factor (BCF): 521

Partition coefficient: n-octanol/water : log Pow: 7.34

### 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 : No data available

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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

ADN : UN 3108  
ADR : UN 3108

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DHBP-45-IC2

Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

---

**RID** : UN 3108  
**IMDG** : UN 3108  
**IATA** : UN 3108

### 14.2 UN proper shipping name

**ADN** : ORGANIC PEROXIDE TYPE E, SOLID  
(2,5-DIMETHYL-2,5-DI-(tert-BUTYLPEROXY)HEXANE)  
**ADR** : ORGANIC PEROXIDE TYPE E, SOLID  
(2,5-DIMETHYL-2,5-DI-(tert-BUTYLPEROXY)HEXANE)  
**RID** : ORGANIC PEROXIDE TYPE E, SOLID  
(2,5-DIMETHYL-2,5-DI-(tert-BUTYLPEROXY)HEXANE)  
**IMDG** : ORGANIC PEROXIDE TYPE E, SOLID  
(2,5-DIMETHYL-2,5-DI-(tert-BUTYLPEROXY)HEXANE)  
**IATA** : Organic peroxide type E, solid  
(2,5-Dimethyl-2,5-di-(tert-butylperoxy)-hexane)

### 14.3 Transport hazard class(es)

**ADN** : 5.2  
**ADR** : 5.2  
**RID** : 5.2  
**IMDG** : 5.2  
**IATA** : 5.2

### 14.4 Packing group

**ADN**  
Packing group : Not assigned by regulation  
Classification Code : P1  
Labels : 5.2

**ADR**  
Packing group : Not assigned by regulation  
Classification Code : P1  
Labels : 5.2  
Tunnel restriction code : (D)

**RID**  
Packing group : Not assigned by regulation  
Classification Code : P1  
Hazard Identification Number : 539  
Labels : 5.2

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

**IATA (Cargo)**  
Packing instruction (cargo) : 570

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DHBP-45-IC2

Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

---

aircraft)  
Packing group : Not assigned by regulation  
Labels : Division 5.2 - Organic peroxides, Handling Label - Keep Away From Heat

### IATA (Passenger)

Packing instruction (passenger aircraft) : 570  
Packing group : Not assigned by regulation  
Labels : Division 5.2 - Organic peroxides, Handling Label - Keep Away From Heat

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : no

#### ADR

Environmentally hazardous : no

#### RID

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 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.

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## 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) : Not applicable

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



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DHBP-45-IC2

Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

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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, preparations and articles (Annex XVII) : 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.

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

Gefahrgruppe nach § 3 BGV B4: III (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
AICS (AU)	: On the inventory, or in compliance with the inventory
DSL (CA)	: All components of this product are on the Canadian DSL
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

## 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 prod-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DHBP-45-IC2



Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

---

uct 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. E H242  
Skin Irrit. 2 H315

### Classification procedure:

Based on product data or assessment  
Calculation method

### Full text of H-Statements

H242 : Heating may cause a fire.  
H315 : Causes skin irritation.

### Full text of other abbreviations

Org. Perox. : Organic peroxides  
Skin Irrit. : Skin irritation  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

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; AICS - Australian Inventory of Chemical Substances; 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 - 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;

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DHBP-45-IC2



Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2018
1.3	28.07.2020	600000000176	Date of first issue: 21.07.2016

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SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance 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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