

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version 1.2      Revision Date: 08/19/2024      SDS Number: 600000000174      Date of last issue: 03/28/2022  
Date of first issue: 12/12/2018

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### SECTION 1. IDENTIFICATION

Trade name : DHBP-7,5-IC5  
Other means of identification : No data available

#### Manufacturer or supplier's details

Company name of supplier : United Initiators, Inc.

Address : 555 Garden Street  
Elyria OH 44035 USA

United Initiators Canada Ltd.  
2147 PG Pulp Mill Road  
Prince George, BC-V2N 2S6 CANADA

Telephone : +1-440-323-3112

Telefax : +1-440-323-2659

Emergency telephone : CHEMTREC US (24h): +1-800-424-9300  
CHEMTREC WORLD (24h): +1-703-527-3887  
CANUTEC (24h): 1-613-996-6666

For Transportation Incidents : TERRAPURE EMERGENCY RESPONSE SERVICES (24h):  
1-800-567-7455

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

#### Recommended use of the chemical and restrictions on use

Recommended use : polymerization initiators

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the Hazardous Products Regulations

Combustible dust : Category 1

Not a hazardous substance or mixture.

#### GHS label elements

Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version 1.2      Revision Date: 08/19/2024      SDS Number: 600000000174      Date of last issue: 03/28/2022  
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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.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**  
None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
Chemical nature : Solid mixture

#### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
1-Propene, Polymer with Ethene	1-Propene, Polymer with Ethene	9010-79-1	$\geq 90 - < 95$ *
2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane	2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane	78-63-7	$\geq 5 - < 7.5$ *

\* Actual concentration or concentration range is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

General advice : Take off contaminated clothing and shoes immediately.  
Never give anything by mouth to an unconscious person.  
If unconscious, place in recovery position and seek medical advice.  
Move out of dangerous area.  
Consult a physician.  
Show this material safety data sheet to the doctor in attendance.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version 1.2	Revision Date: 08/19/2024	SDS Number: 600000000174	Date of last issue: 03/28/2022 Date of first issue: 12/12/2018
----------------	------------------------------	-----------------------------	---

---

- If inhaled : Do not leave the victim unattended.  
: Administer oxygen if breathing is difficult or cyanosis is observed.  
If breathed in, move person into fresh air.  
If not breathing, give artificial respiration.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If symptoms persist, call a physician.  
: 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.
- 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 : Rinse mouth thoroughly with water.  
: Keep respiratory tract clear.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : None known.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- Notes to physician : Treat symptomatically and supportively.
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### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray jet  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition
-

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version 1.2	Revision Date: 08/19/2024	SDS Number: 600000000174	Date of last issue: 03/28/2022 Date of first issue: 12/12/2018
----------------	------------------------------	-----------------------------	---

---

Risk of explosion if heated under confinement.  
Possible emission of gaseous decomposition products may lead to a dangerous pressure build-up.  
Avoid confinement.  
The product burns violently.  
Do not allow run-off from fire fighting to enter drains or water courses.

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 : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
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.

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

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).  
Follow safe handling advice and personal protective equipment recommendations.  
Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
May form combustible dust concentrations in air during processing, handling or other means.  
Treat recovered material as described in the section "Disposal considerations".

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for : Take any precaution to avoid mixing with combustibles.



# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version	Revision Date:	SDS Number:	Date of last issue: 03/28/2022
1.2	08/19/2024	600000000174	Date of first issue: 12/12/2018

---

Materials to avoid : 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.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Minimize workplace exposure concentrations.

#### Personal protective equipment

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

Filter type : Filter type P

Use NIOSH approved respiratory protection.

#### 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.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version 1.2	Revision Date: 08/19/2024	SDS Number: 600000000174	Date of last issue: 03/28/2022 Date of first issue: 12/12/2018
----------------	------------------------------	-----------------------------	---

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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.

- Eye protection : 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.  
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.  
Tightly fitting safety goggles  
Please wear suitable protective goggles. Also wear face protection if there is a splash hazard.
- Skin and body protection : Select appropriate protective clothing based on chemical resistance 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.
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hygiene measures : Avoid contact with skin, eyes and clothing.  
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.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : solid, Beads
- Color : white
- Odor : ether-like
- Odor Threshold : not determined
- pH : No data available substance/mixture is non-soluble (in water)
- Melting point/ range : Decomposition: Decomposes below the melting point.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version 1.2	Revision Date: 08/19/2024	SDS Number: 600000000174	Date of last issue: 03/28/2022 Date of first issue: 12/12/2018
----------------	------------------------------	-----------------------------	---

---

Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form combustible dust concentrations in air during processing, handling or other means. Remarks: Product will burn but does not easily ignite.
Self-ignition	:	The substance or mixture is not classified as pyrophoric.
Upper explosion limit / Upper flammability limit	:	Upper explosion limit No data available
Lower explosion limit / Lower flammability limit	:	Lower explosion limit The minimum explosive concentration (MEC) for dust varies according to particle size distribution.
Vapor pressure	:	No data available
Relative vapor density	:	not determined
Relative density	:	not determined
Density	:	not determined
Bulk density	:	ca. 380 kg/m <sup>3</sup>
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	Not applicable
Autoignition temperature	:	not determined
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.
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable



# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version 1.2	Revision Date: 08/19/2024	SDS Number: 600000000174	Date of last issue: 03/28/2022 Date of first issue: 12/12/2018
----------------	------------------------------	-----------------------------	---

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Explosive properties	:	Not explosive Avoid dust formation.
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Available oxygen content	:	ca. 0.8 %
Particle characteristics	:	
Particle size	:	not determined
Particle Size Distribution	:	No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under recommended storage conditions. No decomposition if stored normally.
Possibility of hazardous reactions	:	May form combustible dust concentrations in air.
Conditions to avoid	:	Avoid dust formation.  Protect from contamination.
Incompatible materials	:	Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents  Not applicable
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

#### Acute toxicity

Not classified based on available information.

#### Components:

##### **1-Propene, Polymer with Ethene:**

Acute oral toxicity	:	Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	:	Assessment: The substance or mixture has no acute inhalation

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# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version 1.2      Revision Date: 08/19/2024      SDS Number: 600000000174      Date of last issue: 03/28/2022  
Date of first issue: 12/12/2018

---

tion toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

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

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: No mortality observed at this dose.

Acute inhalation toxicity : Remarks: study scientifically unjustified

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**

Not classified based on available information.

#### **Product:**

Remarks : May cause skin irritation and/or dermatitis.

#### **Components:**

##### **1-Propene, Polymer with Ethene:**

Result : No skin irritation

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

Species : Rabbit  
Exposure time : 4 h  
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.

#### **Components:**

##### **1-Propene, Polymer with Ethene:**

Result : No eye irritation  
Remarks : Dust contact with the eyes can lead to mechanical irritation.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version 1.2      Revision Date: 08/19/2024      SDS Number: 600000000174      Date of last issue: 03/28/2022  
Date of first issue: 12/12/2018

---

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

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

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

#### **Components:**

#### **1-Propene, Polymer with Ethene:**

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

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

Test Type : Maximization Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitization.

### **Germ cell mutagenicity**

Not classified based on available information.

#### **Components:**

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

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse (male and female)  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version 1.2      Revision Date: 08/19/2024      SDS Number: 600000000174      Date of last issue: 03/28/2022  
Date of first issue: 12/12/2018

---

### **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 fetal development : Test Type: Prenatal development toxicity study (teratogenicity)  
Species: Rat  
Application Route: oral (gavage)  
General Toxicity Maternal: NOAEL: 300 mg/kg body weight  
Developmental Toxicity: 300 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes

### **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, male and female  
NOAEL : 200 mg/kg bw/day  
Application Route : Oral  
Exposure time : 28 d  
Method : OECD Test Guideline 407  
GLP : yes

Species : Rat, male and female  
NOAEL : 150 mg/kg bw/day  
Application Route : Oral  
Exposure time : 90  
Method : OECD Test Guideline 408  
GLP : yes

### **Aspiration toxicity**

Not classified based on available information.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version 1.2	Revision Date: 08/19/2024	SDS Number: 600000000174	Date of last issue: 03/28/2022 Date of first issue: 12/12/2018
----------------	------------------------------	-----------------------------	---

### Components:

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

Not classified due to data which are conclusive although insufficient for classification.

### **Further information**

#### Product:

Remarks : No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### Components:

##### **1-Propene, Polymer with Ethene:**

#### **Ecotoxicology Assessment**

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

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

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

Toxicity to fish : LC50 (*Oryzias latipes* (Japanese medaka)): 4.5 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
Remarks: No toxicity at the limit of solubility.

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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): > 0.0065 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
Remarks: No toxicity at the limit of solubility.

Toxicity to microorganisms : NOEC (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209  
Remarks: No toxicity at the limit of solubility.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version 1.2	Revision Date: 08/19/2024	SDS Number: 600000000174	Date of last issue: 03/28/2022 Date of first issue: 12/12/2018
----------------	------------------------------	-----------------------------	---

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### Ecotoxicology Assessment

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

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

### Persistence and degradability

#### Components:

##### **1-Propene, Polymer with Ethene:**

Biodegradability : Remarks: No data available

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

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

### Bioaccumulative potential

#### Components:

##### **1-Propene, Polymer with Ethene:**

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : Remarks: No data available

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

Bioaccumulation : Bioconcentration factor (BCF): 521 - 839

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

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information : No data available

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version 1.2	Revision Date: 08/19/2024	SDS Number: 600000000174	Date of last issue: 03/28/2022 Date of first issue: 12/12/2018
----------------	------------------------------	-----------------------------	---

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- Waste from residues : Dispose of wastes in an approved waste disposal facility. 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.
- Contaminated packaging : Dispose of in accordance with local regulations. Clean container with water. Dispose of contents/ container to an approved waste disposal plant. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### Domestic regulation

##### TDG

Not regulated as a dangerous good

#### Special precautions for user

Not applicable

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### SECTION 15. REGULATORY INFORMATION

**Canadian PBT Chemicals** : This product contains the following components on the DSL that are classified as Persistent, Bioaccumulative and/or Toxic (PBT) under CEPA:  
2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane

#### The ingredients 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

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version	Revision Date:	SDS Number:	Date of last issue: 03/28/2022
1.2	08/19/2024	600000000174	Date of first issue: 12/12/2018

---

AIIC (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

TECI (TH) : On the inventory, or in compliance with the inventory

### Canadian lists

No substances are subject to a Significant New Activity Notification.

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## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumu-



# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## DHBP-7,5-IC5

Version 1.2	Revision Date: 08/19/2024	SDS Number: 600000000174	Date of last issue: 03/28/2022 Date of first issue: 12/12/2018
----------------	------------------------------	-----------------------------	---

---

lative 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - 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; WHMIS - Workplace Hazardous Materials Information System

This material 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. The hazards on the label also apply to residues in the container.

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

Revision Date : 08/19/2024  
Date format : mm/dd/yyyy

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.

CA / Z8