

# Dibutyl phthalate

## Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 25/02/2020 Version: 1.0

Doc No: SDS-914.079/0



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

#### 1.1. Product identifier

Product form : Substance  
Substance name : dibutyl phthalate  
Chemical name : dibutyl phthalate  
IUPAC name : dibutyl phthalate  
EC-No. : 201-557-4  
CAS-No. : 84-74-2  
Type of product : Pure substances  
Formula : C16H22O4

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : Laboratory chemicals

##### 1.2.2. Uses advised against

No additional information available

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

ISOLAB Laborgeräte GmbH  
Am Dillhof 2 - 63863 Eschau / GERMANY  
Tel: + 49 93 74 / 978 55-0  
Fax: +49 93 74 / 978 55-29  
[prodsafe@isolab.de](mailto:prodsafe@isolab.de)

#### 1.4. Emergency telephone number

| Country | Official advisory body   | Address                           | Emergency number | Comment |
|---------|--|-----------------------------------|------------------|---------|
| Germany | Giftnotruf der Charité<br>CBF, Haus VIII (Wirtschaftgebäude), UG | Hindenburgdamm 30<br>12203 Berlin | +49 30 19240     |         |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Reproductive toxicity, Category 1B H360Df

Hazardous to the aquatic environment — H400

Acute Hazard, Category 1

Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

May damage fertility or the unborn child. Very toxic to aquatic life.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

GHS09

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H360Df - May damage the unborn child. Suspected of damaging fertility.  
H400 - Very toxic to aquatic life.

Precautionary statements (CLP) :

P201 - Obtain special instructions before use.  
P273 - Avoid release to the environment.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.

Extra phrases :

Restricted to professional users

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### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

| Name   | Product identifier   | Conc. (% w/w) |
|--|--|---------------|
| dibutyl phthalate; DBP<br>substance listed as REACH Candidate (Dibutyl phthalate (DBP))<br>substance listed in REACH Annex XIV (Dibutyl phthalate (DBP)) | (CAS-No.) 84-74-2<br>(EC-No.) 201-557-4<br>(EC Index-No.) 607-318-00-4 | ≥ 99          |

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : IF exposed or concerned: Get medical advice/attention. Never give anything by mouth to an unconscious person. People with over sensibility problems are not allowed to work or be exposed to the product. In all cases of doubt, or when symptoms persist, seek medical attention.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water.
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray, dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).
- Unsuitable extinguishing media : Strong water jet.

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

- Fire hazard : Keep away from ignition sources (including static discharges). Contact with combustible material may cause fire.
- Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
- Reactivity in case of fire : At high temperature may liberate dangerous gases.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

- Precautionary measures fire : Approach from upwind. Use water spray or fog for cooling exposed containers. Keep away from combustible materials.
- Firefighting instructions : Use water spray or fog for cooling exposed containers. Cool adjacent tanks / containers / drums with water jet. Do not allow water to enter the vessels, a violent reaction may occur. Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. Keep upwind. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
- Other information : High temperature decomposition products are harmful by inhalation. Inhalation of vapour can cause breathing difficulties.

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### SECTION 6: Accidental release measures

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

General measures : Eliminate every possible source of ignition. Access forbidden to unauthorised personnel. Use protective clothing. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Notify authorities if product enters sewers or public waters. Use care in walking on spilled material. Do not inhale vapour.

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. Dust formation: dust mask. Wear suitable protective clothing, gloves and eye or face protection.

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Do not touch or walk on the spilled product. Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel.

Measures in case of dust release : In case of dust production: protective goggles. Dust mask.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Only qualified personnel equipped with suitable protective equipment may intervene. Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Avoid contact with skin and eyes. Do not touch spilled material. Evacuate unnecessary personnel. Keep away from combustible material. Keep public away from danger area. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Ventilate area. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters. Do not allow to enter drains or water courses. Do not discharge into drains or waterways without neutralizing.

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

For containment : Collect spillage. Comply with the safety instructions. Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Notify authorities if product enters sewers or public waters. Clean up any spills as soon as possible, using an absorbent material to collect it. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Sweep or shovel spills into appropriate container for disposal. Minimise generation of dust.

Other information : Dispose of materials or solid residues at an authorized site. Dispose of contaminated materials in accordance with current regulations.

#### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Use adequate ventilation to keep vapour concentrations below applicable standard. Take all necessary technical measures to avoid or minimize the release of the product on the workplace.

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid dust formation. Avoid prolonged and repeated contact with skin. Contaminated work clothing should not be allowed out of the workplace. Do not spray on an open flame or other ignition source. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Keep valves and fittings free from oil and grease. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Take precautionary measures against static discharge.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Containers which are opened should be properly resealed and kept upright to prevent leakage. The floor of the depot should be impermeable and designed to form a water-tight basin. Ensure adequate ventilation, especially in confined areas. Comply with applicable regulations.

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong acids. Strong bases. Strong oxidizing agents. Peroxides. Explosives.

Incompatible materials : Extremely high or low temperatures.

Heat and ignition sources : Do not smoke. KEEP SUBSTANCE AWAY FROM: ignition sources. heat sources.

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Information on mixed storage : Keep away from food, drink and animal feeding stuffs.  
Storage area : Avoid: Extremely high or low temperatures. Heat and ignition sources.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| dibutyl phthalate; DBP (84-74-2) |  |                         |
|----------------------------------|--|-------------------------|
| EU                               | Local name   | Di-n-butyl phthalate    |
| EU                               | IOELV TWA (mg/m <sup>3</sup> )                         | 0.58 mg/m <sup>3</sup>  |
| EU                               | IOELV TWA (ppm)  | 0.05 ppm                |
| EU                               | Notes  | (Year of adoption 2016) |
| Germany                          | TRGS 900 Local name                                    | Dibutylphthalat         |
| Germany                          | Occupational exposure limit value (mg/m <sup>3</sup> ) | 0.58 mg/m <sup>3</sup>  |
| Germany                          | Occupational exposure limit value (ppm)                | 0.05 ppm                |
| Germany                          | TRGS 900 Remark  | DFG;Y;11                |

| dibutyl phthalate; DBP (84-74-2)     |                 |
|--------------------------------------|-----------------|
| PNEC (Water)                         |                 |
| PNEC aqua (freshwater)               | 10 µg/l         |
| PNEC aqua (marine water)             | 1 µg/l          |
| PNEC aqua (intermittent, freshwater) | 4.8 µg/l        |
| PNEC (Sediment)                      |                 |
| PNEC sediment (freshwater)           | 1.19 mg/kg dwt  |
| PNEC sediment (marine water)         | 0.119 mg/kg dwt |
| PNEC (Soil)                          |                 |
| PNEC soil                            | 0.05 mg/kg dwt  |
| PNEC (Oral)                          |                 |
| PNEC oral (secondary poisoning)      | 1.33 mg/kg food |
| PNEC (STP)                           |                 |
| PNEC sewage treatment plant          | 0.22 mg/l       |

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station. Avoid contact with skin, eyes and clothing. Carry out operations in the open/under local exhaust/ventilation or with respiratory protection. Consider the use of a work permit system e.g. for maintenance activities. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. In the event that dust and/or fine particles are generated with this product, it is prudent to minimize prolonged inhalation exposure to these forms not to exceed the occupational exposure limit. Measure concentrations regularly, and at the time of any change occurring in conditions likely to have consequences on workers exposure.

#### Personal protective equipment:

Gloves. Safety glasses.

#### Hand protection:

Protective gloves. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

#### Eye protection:

Safety glasses. EN 166

#### Skin and body protection:

Wear suitable protective clothing. Where contact with eyes or skin is likely, wear suitable protection. In case of dust production: dustproof clothing. In case of dust production: head/neck protection

#### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection. Dust production: dust mask with filter type P1. Where excessive vapour may result, wear approved mask

#### Personal protective equipment symbol(s):

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### Environmental exposure controls:

Avoid release to the environment.

### Consumer exposure controls:

Do not eat, drink or smoke during use. Always wash hands after handling the product. Avoid contact with skin and eyes. Avoid contact during pregnancy/while nursing.

### Other information:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

## SECTION 9: Physical and chemical properties

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

|   |                                    |
|---|------------------------------------|
| Physical state                                  | : Liquid                           |
| Appearance                                      | : Clear.                           |
| Molecular mass                                  | : 278.34 g/mol                     |
| Colour  | : colourless to slightly yellow.   |
| Odour   | : characteristic.                  |
| Odour threshold                                 | : No data available                |
| pH  | : neutral (at 10 mg/l at 20 °C)    |
| Relative evaporation rate (butylacetate=1)      | : No data available                |
| Melting point                                   | : -35 °C - lit.                    |
| Freezing point                                  | : No data available                |
| Boiling point                                   | : 340 °C - lit.                    |
| Flash point                                     | : 186.5 °C - open cup              |
| Auto-ignition temperature                       | : No data available                |
| Decomposition temperature                       | : No data available                |
| Flammability (solid, gas)                       | : Not applicable                   |
| Vapour pressure                                 | : 97.000 hPa at ca.25 °C           |
| Relative vapour density at 20 °C                | : No data available                |
| Relative density                                | : No data available                |
| Density   | : 1.043 g/mL at 25 °C(lit.)        |
| Solubility                                      | : Water: 0,0114 g/l at 25 °C       |
| Partition coefficient n-octanol/water (Log Pow) | : No data available                |
| Viscosity, kinematic                            | : 18.8 mm <sup>2</sup> /s at 20 °C |
| Viscosity, dynamic                              | : No data available                |
| Explosive properties                            | : No data available                |
| Oxidising properties                            | : No data available                |
| Explosive limits                                | : No data available                |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Peroxides. Explosives.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

| dibutyl phthalate; DBP (84-74-2) |  |
|----------------------------------|--|
| LD50 oral rat                    | 6279 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LC50 inhalation rat (mg/l)       | ≥ 15.68 mg/l air Animal: rat   |

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : May damage the unborn child. Suspected of damaging fertility.

| dibutyl phthalate; DBP (84-74-2) |  |
|----------------------------------|--|
| LOAEL (animal/male, F1)          | 52 mg/kg bodyweight Animal: rat, Animal sex: male    |
| NOAEL (animal/female, F0/P)      | 385 mg/kg bodyweight Animal: rat, Animal sex: female |

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

| dibutyl phthalate; DBP (84-74-2) |   |
|----------------------------------|---|
| LOAEL (oral, rat, 90 days)       | 752 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| NOAEL (oral, rat, 90 days)       | 152 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

Aspiration hazard : Not classified

| dibutyl phthalate; DBP (84-74-2) |                                 |
|----------------------------------|---------------------------------|
| Viscosity, kinematic             | 18.8 mm <sup>2</sup> /s @ 20 °C |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life.

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term (chronic) : Not classified

| dibutyl phthalate; DBP (84-74-2) |   |
|----------------------------------|---|
| EC50 Daphnia 1                   | ≈ 2.99 mg/l Test organisms (species): other:Mysidopsis bahia (marine test species), Daphnia magna and Paratanytarsus parthenogenetica |
| EC50 72h algae (1)               | 8.38 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)                                  |
| EC50 72h algae (2)               | 2.12 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)                                  |
| LOEC (chronic)                   | 0.811 mg/l Test organisms (species): Daphnia magna Duration: '21 d'   |
| NOEC (chronic)                   | 0.158 mg/l Test organisms (species): Daphnia magna Duration: '21 d'   |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### dibutyl phthalate; DBP (84-74-2)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

- Regional legislation (waste) : Disposal must be done according to official regulations. Waste Management Regulation published in the Official Journal numbered 29314 on April 2, 2015.
- Sewage disposal recommendations : Disposal must be done according to official regulations.
- Product/Packaging disposal recommendations : Completely empty the packaging prior to decontamination. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Comply with applicable regulations for solid waste disposal.
- Additional information : Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR  | IMDG  | IATA  | ADN   | RID   |
|--|---|---|---|---|
| <b>14.1. UN number</b>   |   |   |   |   |
| 3082   | 3082  | 3082  | 3082  | 3082  |
| <b>14.2. UN proper shipping name</b>                                     |   |   |   |   |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                                   | Environmentally hazardous substance, liquid, n.o.s.                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                 |
| <b>Transport document description</b>                                    |   |   |   |   |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III |
| <b>14.3. Transport hazard class(es)</b>                                  |   |   |   |   |
| 9  | 9   | 9   | 9   | 9   |
|  |   |   |   |   |
| <b>14.4. Packing group</b>   |   |   |   |   |
| III  | III   | III   | III   | III   |
| <b>14.5. Environmental hazards</b>                                       |   |   |   |   |
| Dangerous for the environment : Yes                                      | Dangerous for the environment : Yes<br>Marine pollutant : Yes                         | Dangerous for the environment : Yes                                 | Dangerous for the environment : Yes                                 | Dangerous for the environment : Yes                                 |
| No supplementary information available                                   |   |   |   |   |

### 14.6. Special precautions for user

#### - Overland transport

- Classification code (ADR) : M6
- Special provisions (ADR) : 274, 335, 375, 601
- Limited quantities (ADR) : 5I
- Excepted quantities (ADR) : E1
- Packing instructions (ADR) : P001, IBC03, LP01, R001

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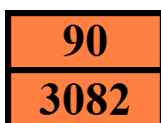
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|   |             |
|---|-------------|
| Special packing provisions (ADR)  | : PP1       |
| Mixed packing provisions (ADR)  | : MP19      |
| Portable tank and bulk container instructions (ADR)                     | : T4        |
| Portable tank and bulk container special provisions (ADR)               | : TP1, TP29 |
| Tank code (ADR)   | : LGBV      |
| Vehicle for tank carriage   | : AT        |
| Transport category (ADR)  | : 3         |
| Special provisions for carriage - Packages (ADR)                        | : V12       |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13      |
| Hazard identification number (Kemler No.)                               | : 90        |
| Orange plates   | :           |



|                               |       |
|-------------------------------|-------|
| Tunnel restriction code (ADR) | : -   |
| EAC code                      | : •3Z |

### - Transport by sea

|                                   |                 |
|-----------------------------------|-----------------|
| Special provisions (IMDG)         | : 274, 335, 969 |
| Limited quantities (IMDG)         | : 5 L           |
| Excepted quantities (IMDG)        | : E1            |
| Packing instructions (IMDG)       | : LP01, P001    |
| Special packing provisions (IMDG) | : PP1           |
| IBC packing instructions (IMDG)   | : IBC03         |
| Tank instructions (IMDG)          | : T4            |
| Tank special provisions (IMDG)    | : TP2, TP29     |
| EmS-No. (Fire)                    | : F-A           |
| EmS-No. (Spillage)                | : S-F           |
| Stowage category (IMDG)           | : A             |

### - Air transport

|  |                   |
|--|-------------------|
| PCA Excepted quantities (IATA)               | : E1              |
| PCA Limited quantities (IATA)                | : Y964            |
| PCA limited quantity max net quantity (IATA) | : 30kgG           |
| PCA packing instructions (IATA)              | : 964             |
| PCA max net quantity (IATA)                  | : 450L            |
| CAO packing instructions (IATA)              | : 964             |
| CAO max net quantity (IATA)                  | : 450L            |
| Special provisions (IATA)                    | : A97, A158, A197 |
| ERG code (IATA)                              | : 9L              |

### - Inland waterway transport

|                                   |                      |
|-----------------------------------|----------------------|
| Classification code (ADN)         | : M6                 |
| Special provisions (ADN)          | : 274, 335, 375, 601 |
| Limited quantities (ADN)          | : 5 L                |
| Excepted quantities (ADN)         | : E1                 |
| Equipment required (ADN)          | : PP                 |
| Number of blue cones/lights (ADN) | : 0                  |

### - Rail transport

|                           |                      |
|---------------------------|----------------------|
| Classification code (RID) | : M6                 |
| Special provisions (RID)  | : 274, 335, 375, 601 |
| Limited quantities (RID)  | : 5L                 |
| Excepted quantities (RID) | : E1                 |



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|   |                           |
|---|---------------------------|
| Packing instructions (RID)  | : P001, IBC03, LP01, R001 |
| Special packing provisions (RID)  | : PP1                     |
| Mixed packing provisions (RID)  | : MP19                    |
| Portable tank and bulk container instructions (RID)                     | : T4                      |
| Portable tank and bulk container special provisions (RID)               | : TP1, TP29               |
| Tank codes for RID tanks (RID)  | : LGBV                    |
| Transport category (RID)  | : 3                       |
| Special provisions for carriage – Packages (RID)                        | : W12                     |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW31              |
| Colis express (express parcels) (RID)                                   | : CE8                     |
| Hazard identification number (RID)                                      | : 90                      |

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

|  |                        |
|--|------------------------|
| 30. Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively. | dibutyl phthalate; DBP |
| 51(b) Phthalates: Dibutyl phthalate (DBP)  | dibutyl phthalate; DBP |

Dibutyl phthalate (DBP) is on the REACH Candidate List

Dibutyl phthalate (DBP) is on the REACH Annex XIV List:

| Authorisation number | Expiration date | REACH authorisation exemptions |
|----------------------|-----------------|--------------------------------|
|                      | 21/01/2015      |                                |

#### 15.1.2. National regulations

##### Germany

|  |   |
|--|---|
| Regulatory reference                       | : WGK 3, Highly hazardous to water (Classification according to AwSV; ID No. 186)   |
| Employment restrictions                    | : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)<br>Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG) |
| Hazardous Incident Ordinance (12. BImSchV) | : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)  |

##### Netherlands

|   |                                    |
|---|------------------------------------|
| SZW-lijst van kankerverwekkende stoffen   | : The substance is not listed      |
| SZW-lijst van mutagene stoffen  | : The substance is not listed      |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding   | : The substance is not listed      |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid | : dibutyl phthalate; DBP is listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling   | : dibutyl phthalate; DBP is listed |

##### Denmark

|                             |  |
|-----------------------------|--|
| Danish National Regulations | : Young people below the age of 18 years are not allowed to use the product<br>Pregnant/breastfeeding women working with the product must not be in direct contact with the product<br>The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal |
|-----------------------------|--|

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# Dibutyl phthalate

## Safety Data Sheet

according to Regulation (EU) 2015/830

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### SECTION 16: Other information

Abbreviations and acronyms:

|           |   |
|-----------|---|
| 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               |
| ATE       | Acute Toxicity Estimate   |
| BCF       | Bioconcentration factor   |
| DMEL      | Derived Minimal Effect level  |
| DNEL      | Derived-No Effect Level   |
| EC50      | Median effective concentration  |
| IARC      | International Agency for Research on Cancer   |
| IATA      | International Air Transport Association   |
| IMDG      | International Maritime Dangerous Goods  |
| LC50      | Median lethal concentration   |
| LD50      | Median lethal dose  |
| LOAEL     | Lowest Observed Adverse Effect Level  |
| NOAEC     | No-Observed Adverse Effect Concentration  |
| NOAEL     | No-Observed Adverse Effect Level  |
| NOEC      | No-Observed Effect Concentration  |
| OECD      | Organisation for Economic Co-operation and Development  |
| PBT       | Persistent Bioaccumulative Toxic  |
| PNEC      | Predicted No-Effect Concentration   |
| RID       | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| SDS       | Safety Data Sheet   |
| STP       | Sewage treatment plant  |
| TLM       | Median Tolerance Limit  |
| vPvB      | Very Persistent and Very Bioaccumulative  |
| CAS-No.   | Chemical Abstract Service number  |
| BLV       | Biological limit value  |
| BOD       | Biochemical oxygen demand (BOD)   |
| CAS       | Chemical Abstracts Service (division of the American Chemical Society)                            |
| EC-No.    | European Community number   |
| EN        | European Standard   |
| IOELV     | Indicative Occupational Exposure Limit Value  |
| N.O.S.    | Not Otherwise Specified   |
| OEL       | Occupational Exposure Limit   |
| Pow (log) | n-octanol/water partition coefficient   |
| REACH     | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| ThOD      | Theoretical oxygen demand (ThOD)  |
| TRGS      | Technical Rules for Hazardous Substances  |
| VOC       | Volatile Organic Compounds  |
| WGK       | Water Hazard Class  |
| COD       | Chemical oxygen demand (COD)  |

Data sources : Classification according to Regulation (EC) No. 1272/2008 [CLP]. ECHA (European Chemicals Agency). Supplier's safety documents.

Full text of H- and EUH-statements:

|                 |   |
|-----------------|---|
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Repr. 1B        | Reproductive toxicity, Category 1B                              |
| H360Df          | May damage the unborn child. Suspected of damaging fertility.   |
| H400            | Very toxic to aquatic life.                                     |

SDS ISOLAB (EU)

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