

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

|                               |   |
|-------------------------------|---|
| Product form                  | : Substance   |
| Trade name                    | : METOPROLOL TARTRATE   |
| Chemical name                 | : (2R,3R)-2,3-Dihydroxybutanedioic acid; 1-[4-(2-methoxyethyl)phenoxy]-3-(propan-2-ylamino)propan-2-ol  |
| IUPAC name                    | : (2R,3R)-2,3-Dihydroxybutanedioic acid; 1-[4-(2-methoxyethyl)phenoxy]-3-(propan-2-ylamino)propan-2-ol  |
| EC-No.                        | : 260-148-9   |
| CAS-No.                       | : 056392-17-7   |
| Product code                  | : 75200   |
| Type of product               | : Active Ingredient for Medicinal / Pharmaceutical Use  |
| Formula                       | : C <sub>15</sub> H <sub>25</sub> NO <sub>3</sub> ·½C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>  |
| Synonyms                      | : Metoprolol Tartrate; 1-[4-(2-methoxyethyl)phenoxy]-3-[(1-methylethyl)amino]2-propanol (2R,3R)-2,3-dihydroxybutanedioate (2:1) salt; 1-(isopropylamino)-3-[p-(beta-methoxyethyl)phenoxy]2-propanol tartrate salt |
| Other means of identification | : SMILES: COCCC1=CC=C(OCC(O)CNC(C)C)C=C1 (Free Metoprolol base)   |

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

|                                  |  |
|----------------------------------|--|
| Main use category                | : API,Industrial use,Professional use  |
| Industrial/Professional use spec | : Active Ingredient for Medicinal / Pharmaceutical Use<br>For professional use only<br>Industrial  |
| Use of the substance/mixture     | : Antihypertensive; antianginal ; Metoprolol is a cardioselective β <sub>1</sub> -adrenergic blocking agent used for acute myocardial infarction (MI), heart failure, angina pectoris and mild to moderate hypertension. |
| Function or use category         | : Pharmaceuticals  |

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet****Supplier**

MOEHS IBÉRICA, S.L.  
Roma, 8 - P.I. Cova Solera  
08191 Rubi  
Spain  
T +34 93 586 05 20 - F +34 93 699 8350  
[hse@moehs.es](mailto:hse@moehs.es) - [www.moehs.com](http://www.moehs.com)

**Manufacturer**

MOEHS CATALANA, S.L.  
Cesar Martinell i Brunet, 12 A P.I. Rubi Sud  
08191 Rubi  
Spain  
T +34 93 586 05 20 - F +34 93 699 8350  
[hse@moehs.es](mailto:hse@moehs.es) - [www.moehs.com](http://www.moehs.com)

**1.4. Emergency telephone number**

|                  |                                      |
|------------------|--------------------------------------|
| Emergency number | : +34 93 586 05 20<br>(9:00 - 17:00) |
|------------------|--------------------------------------|

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

|  |      |
|--|------|
| Skin corrosion/irritation, Category 2  | H315 |
| Serious eye damage/eye irritation, Category 2  | H319 |
| Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation | H335 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 3                          | H412 |
| Full text of H- and EUH-statements: see section 16   |      |

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Adverse physicochemical, human health and environmental effects

Causes eye irritation. Causes skin irritation. May cause respiratory irritation. May cause long lasting harmful effects to aquatic life.

## 2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P261 - Avoid breathing dust, fume, mist, vapours, spray.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear eye protection, protective gloves, face protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P313 - Get medical advice/attention.

P273 - Avoid release to the environment.

## 2.3. Other hazards

Other hazards which do not result in classification : Dust may form explosive mixture in air.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type

: Mono-constituent

| Name                | Product identifier                        | %   |
|---------------------|---|-----|
| METOPROLOL TARTRATE | CAS-No.: 056392-17-7<br>EC-No.: 260-148-9 | 100 |

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact

: Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects                    | : Not expected to present a significant hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice. May cause drowsiness or dizziness. |
| Symptoms/effects after inhalation   | : May cause respiratory irritation.  |
| Symptoms/effects after skin contact | : Causes skin irritation.  |
| Symptoms/effects after eye contact  | : Causes serious eye irritation.   |
| Symptoms/effects after ingestion    | : May cause drowsiness or dizziness.   |

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

Never give anything by mouth to an unconscious person.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                     |

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

|  |   |
|--|---|
| Hazardous decomposition products in case of fire | : Carbon dioxide. fume. Carbon monoxide. Toxic fumes may be released. |
|--|---|

### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Precautionary measures fire    | : Stop leak if safe to do so.   |
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection.   |

## SECTION 6: Accidental release measures

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

|                  |  |
|------------------|--|
| General measures | : No open flames. No smoking. No flames, no sparks. Eliminate all sources of ignition. |
|------------------|--|

#### 6.1.1. For non-emergency personnel

|                                  |                                   |
|----------------------------------|-----------------------------------|
| Protective equipment             | : Breathing equipment.            |
| Emergency procedures             | : Evacuate unnecessary personnel. |
| Measures in case of dust release | : Dust formation: dust mask.      |

#### 6.1.2. For emergency responders

|                      |  |
|----------------------|--|
| Protective equipment | : Equip cleanup crew with proper protection.   |
| Emergency procedures | : Ventilate area. Shovel or sweep up and put in a closed container for disposal. Stop leak if safe to do so. |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

|                         |   |
|-------------------------|---|
| Methods for cleaning up | : On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials. This material and its container must be disposed of in a safe way, and as per local legislation. |
| Other information       | : Dispose of materials or solid residues at an authorized site.   |

### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- |                                   |  |
|-----------------------------------|--|
| Additional hazards when processed | : Keep away from Strong acids, strong bases and oxidation agents, Heat and ignition sources. No smoking.   |
| Precautions for safe handling     | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Use only outdoors or in a well-ventilated area. Avoid breathing dust, mist. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe dust. Avoid raising powdered material due to explosion hazard. Wear personal protective equipment. |
| Hygiene measures                  | : Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.   |

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

- |                        |  |
|------------------------|--|
| Storage conditions     | : Store in a well-ventilated place. Store at room temperature. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| Incompatible products  | : Strong bases. Strong acids. Oxidizing agent.   |
| Incompatible materials | : Sources of ignition. Direct sunlight.  |
| Storage area           | : Store in a well-ventilated place. Store away from heat.  |

#### 7.3. Specific end use(s)

Pharmaceuticals.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

No additional information available

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

Control banding : MOEHS occupational exposure band: 2 (0.1 - 1 mg/m<sup>3</sup>)

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

###### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

##### 8.2.2. Personal protection equipment

###### Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Safety glasses. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Dust/aerosol mask.

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### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

| Skin and body protection |          |
|--------------------------|----------|
| Type                     | Standard |
| Disposable gowns         | EN 13034 |

##### Hand protection:

Wear protective gloves.

| Hand protection   |   |            |
|-------------------|---|------------|
| Type              | Material  | Standard   |
| Disposable gloves | Latex, Vinyl, Natural rubber, Polyvinylchloride (PVC), Polyvinylalcohol (PVA) | EN ISO 374 |

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Wear appropriate mask

| Respiratory protection |             |                 |          |
|------------------------|-------------|-----------------|----------|
| Device                 | Filter type | Condition       | Standard |
| Dust mask              | Type P3     | Dust protection | EN 143   |

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

##### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

|                 |                   |
|-----------------|-------------------|
| Physical state  | : Solid           |
| Colour          | : white.          |
| Molecular mass  | : 342.4 g/mol     |
| Odour           | : characteristic. |
| Odour threshold | : Not available   |
| Melting point   | : 121 – 124 °C    |
| Freezing point  | : Not available   |
| Boiling point   | : Not available   |

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|   |   |
|---|---|
| Flammability                                    | : May form combustible dust concentrations in air             |
| Explosive properties                            | : May form combustible dust concentrations in air.            |
| Explosive limits                                | : Not applicable  |
| Lower explosion limit                           | : Not applicable  |
| Upper explosion limit                           | : Not applicable  |
| Flash point                                     | : Not applicable  |
| Auto-ignition temperature                       | : Not applicable  |
| Decomposition temperature                       | : Not available   |
| pH  | : 6 – 7 [2% aq. Sol.]   |
| pH solution                                     | : Not available   |
| Viscosity, kinematic                            | : Not applicable  |
| Solubility                                      | : Water: 17 mg/l<br>Ethanol: 200 g/l [20°C]<br>Acetone: 2 g/l |
| Partition coefficient n-octanol/water (Log Kow) | : Not available   |
| Partition coefficient n-octanol/water (Log Pow) | : 1.6   |
| Vapour pressure                                 | : Not available   |
| Vapour pressure at 50°C                         | : Not available   |
| Density   | : 170 kg/m <sup>3</sup>                                       |
| Relative density                                | : Not available   |
| Relative vapour density at 20°C                 | : Not applicable  |
| Particle size                                   | : Not available   |
| Particle size distribution                      | : Not available   |
| Particle shape                                  | : Not available   |
| Particle aspect ratio                           | : Not available   |
| Particle aggregation state                      | : Not available   |
| Particle agglomeration state                    | : Not available   |
| Particle specific surface area                  | : Not available   |
| Particle dustiness                              | : Not available   |

## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

|                         |   |
|-------------------------|---|
| Minimum ignition energy | : 5 mJ  |
| Additional information  | : Dust Cloud minimum Flammability Temperature : 460°C.<br>Layer Minimum flammability Temperature : 130°C.<br>Minimum Explosive Concentration : 30 g/m <sup>3</sup> .<br>Explosivity Pmax : 7.1.<br>Explosion Severity Factor Kmax (bar.m/s) : 131.<br>Explosion Class : 1 |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Stable under use and storage conditions as recommended in section 7.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid dust formation. No flames, no sparks. Eliminate all sources of ignition. Direct sunlight.

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### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                             |  |
|-----------------------------|--|
| Acute toxicity (oral)       | : Not classified   |
| Acute toxicity (dermal)     | : Not classified   |
| Acute toxicity (inhalation) | : Not classified   |
| Additional information      | : Based on available data, the classification criteria are not met |

#### METOPROLOL TARTRATE (056392-17-7)

|                            |                |
|----------------------------|----------------|
| LD50 oral rat              | 5500 mg/kg     |
| LD50 dermal rabbit         | > 3000 mg/kg   |
| LC50 Inhalation - Rat      | > 2510 mg/l/4h |
| LD50, intraperitoneal, rat | 219 mg/kg      |
| LD50, oral, mouse          | 1480 mg/kg     |
| LD50, oral, rabbit         | 604 mg/kg      |
| LD50, oral, Dog            | 1090 mg/kg     |

|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | : Causes skin irritation.<br>pH: 6 – 7 [2% aq. Sol.]               |
| Serious eye damage/irritation     | : Causes serious eye irritation.<br>pH: 6 – 7 [2% aq. Sol.]        |
| Respiratory or skin sensitisation | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| Germ cell mutagenicity            | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| Carcinogenicity                   | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| Reproductive toxicity             | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| STOT-single exposure              | : May cause respiratory irritation.                                |
| STOT-repeated exposure            | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| Aspiration hazard                 | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

|  |   |
|--|---|
| Adverse health effects caused by endocrine disrupting properties | : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
|--|---|

#### 11.2.2. Other information

|   |  |
|---|--|
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met |
| Other information                                   | : Likely routes of exposure: ingestion, inhalation, skin and eye   |

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

| METOPROLOL TARTRATE (056392-17-7) |                            |
|-----------------------------------|----------------------------|
| LC50 - Fish [1]                   | 54 mg/l [Bluegill sunfish] |
| LC50 - Fish [2]                   | 130 mg/l [Trucha arcoiris] |
| EC50 - Crustacea [1]              | 32 mg/l                    |

#### 12.2. Persistence and degradability

| METOPROLOL TARTRATE (056392-17-7) |   |
|-----------------------------------|---|
| Persistence and degradability     | May cause long-term adverse effects in the environment. |
| Biodegradation                    | 17 %  |

#### 12.3. Bioaccumulative potential

| METOPROLOL TARTRATE (056392-17-7)               |                  |
|---|------------------|
| Partition coefficient n-octanol/water (Log Pow) | 1.6              |
| Bioaccumulative potential                       | Not established. |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance/mixture has no endocrine disrupting properties.

#### 12.7. Other adverse effects

Additional information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. Discharging into rivers and drains is forbidden.  
Additional information : Clean up even minor leaks or spills if possible without unnecessary risk. Industrial waste.  
Ecology - waste materials : Avoid release to the environment.  
European List of Waste (LoW) code : 16 05 08\* - discarded organic chemicals consisting of or containing dangerous substances

### SECTION 14: Transport information

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



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### 14.1. UN number or ID number

|               |                  |
|---------------|------------------|
| UN-No. (ADR)  | : Not applicable |
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN)  | : Not applicable |
| UN-No. (RID)  | : Not applicable |

### 14.2. UN proper shipping name

|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (ADR)  | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN)  | : Not applicable |
| Proper Shipping Name (RID)  | : Not applicable |

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : Not applicable

#### IATA

Transport hazard class(es) (IATA) : Not applicable

#### ADN

Transport hazard class(es) (ADN) : Not applicable

#### RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

|                      |                  |
|----------------------|------------------|
| Packing group (ADR)  | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Packing group (ADN)  | : Not applicable |
| Packing group (RID)  | : Not applicable |

### 14.5. Environmental hazards

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

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### 14.7. Maritime transport in bulk according to IMO instruments

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

##### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

##### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

##### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

SZW-lijst van reprotoxische stoffen – : The substance is not listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

##### Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

##### Switzerland

Storage class (LK) : LK 11/13 - Solids

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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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               |
| BCF                         | Bioconcentration factor   |
| IARC                        | International Agency for Research on Cancer   |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| DNEL                        | Derived-No Effect Level   |
| DPD                         | Dangerous Preparations Directive 1999/45/EC   |
| DSD                         | Dangerous Substances Directive 67/548/EEC   |
| EC50                        | Median effective concentration  |
| IATA                        | International Air Transport Association   |
| LC50                        | Median lethal concentration   |
| LD50                        | Median lethal dose  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |
| vPvB                        | Very Persistent and Very Bioaccumulative  |
| NOAEL                       | No-Observed Adverse Effect Level  |
| PBT                         | Persistent Bioaccumulative Toxic  |
| PNEC                        | Predicted No-Effect Concentration   |
| REACH                       | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| SDS                         | Safety Data Sheet   |

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3                          |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |
| H315                                | Causes skin irritation.  |
| H319                                | Causes serious eye irritation.   |
| H335                                | May cause respiratory irritation.  |
| H412                                | Harmful to aquatic life with long lasting effects.   |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.