

**Kit SDS Cover Sheet****PyroCell™ MAT Cell Kit (M2016LC+M2016LS)**

Version 1.1

Revision Date 20.03.2020

Print Date 10.02.2021

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**Product Information**

Product name : PyroCell™ MAT Cell Kit (M2016LC+M2016LS)

Material number : 00249735

**Components**

MAT Cells

SDS attached

MAT Culture Medium Supplement

SDS attached

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

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

Product name : MAT Cells

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

Use of the Substance/Mixture : For Research Use Only. Not for use in diagnostic procedures.

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

Company : **Lonza Ltd**  
Muenchensteinerstrasse 38  
CH-4002 Basel, Switzerland  
Business Telephone: +41 61 316 81 11

**Lonza Verviers Sprl**  
Parc Industriel de Petit-Rechain  
BE-4800 Verviers, Belgium  
Business Telephone: +32 8732 1611

**Lonza Cologne GmbH**  
Nattermannallee 1  
DE-50829 Köln, Germany  
Business Telephone: + 49 221 99 1990

**Lonza Copenhagen ApS**  
Strandhaven 12  
DK-2665 Vallengbaek Strand, Denmark  
Business Telephone: + 45 4356 7400

E-mail address : sds@lonza.com

Responsible/issuing person

**1.4 Emergency telephone number**Emergency telephone number : Lonza Ltd, CH-4002 Basel, Switzerland  
Telephone: +41 61 313 94 94 (24h)

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Components**

Remarks : No hazardous ingredients

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**SECTION 4: First aid measures****4.1 Description of first aid measures**

If inhaled : No special precautions required.

In case of skin contact : Wash with water and soap as a precaution.  
If skin irritation persists, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
If eye irritation persists, consult a specialist.

If swallowed : Immediately give large quantities of water to drink.  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.

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

Symptoms : No information available.

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

Treatment : No information available.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**Suitable extinguishing media : Water spray  
Dry powder  
Foam**5.2 Special hazards arising from the substance or mixture**Hazardous combustion products : Carbon oxides  
Sulphur oxides**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Use water spray to cool unopened containers.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : No special precautions required.

Advice on protection against fire and explosion : Take precautionary measures against static discharges.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

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

Requirements for storage areas and containers : No special storage conditions required.

### 7.3 Specific end use(s)

Specific use(s) : No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Countries not listed may have their own country specific values.

#### Occupational Exposure Limits

##### Switzerland

| Components         | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|--------------------|---------|-------------------------------|--------------------|-------|
| Dimethyl sulfoxide | 67-68-5 | STEL                          | 100 ppm            | SMAK  |

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|  |  |     |                     |      |
|--|--|-----|---------------------|------|
|  |  |     | 320 mg/m3           |      |
|  |  | TWA | 50 ppm<br>160 mg/m3 | SMAC |

#### Germany

| Components                              | CAS-No. | Value type (Form of exposure)             | Control parameters  | Basis    |
|---|---------|---|---------------------|----------|
| Dimethyl sulfoxide                      | 67-68-5 | MAK                                       | 50 ppm<br>160 mg/m3 | DFG MAK  |
| Peak-limit: excursion factor (category) |         | Peak-limit: excursion factor (category) 2 |                     |          |
|   |         |   | 50 ppm<br>160 mg/m3 | TRGS 900 |
| Peak-limit: excursion factor (category) |         | Peak-limit: excursion factor (category) 2 |                     |          |

#### Denmark

| Components         | CAS-No. | Value type (Form of exposure) | Control parameters  | Basis   |
|--------------------|---------|-------------------------------|---------------------|---------|
| Dimethyl sulfoxide | 67-68-5 | GV                            | 50 ppm<br>160 mg/m3 | GV (DK) |

#### Sweden

| Components         | CAS-No. | Value type (Form of exposure) | Control parameters   | Basis |
|--------------------|---------|-------------------------------|----------------------|-------|
| Dimethyl sulfoxide | 67-68-5 | TWA                           | 50 ppm<br>150 mg/m3  | SWO   |
|                    |         | STEL                          | 150 ppm<br>500 mg/m3 | SWO   |

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

| Substance name     | End Use   | Exposure routes | Potential health effects   | Value     |
|--------------------|-----------|-----------------|----------------------------|-----------|
| Dimethyl sulfoxide | Workers   | Inhalation      | Long-term systemic effects | 394 mg/m3 |
|                    | Workers   | Skin contact    | Long-term systemic effects | 400 mg/kg |
|                    | Consumers | Skin contact    | Long-term systemic effects | 200 mg/kg |
|                    | Consumers | Oral            | Long-term systemic effects | 100 mg/kg |
|                    | Consumers | Inhalation      | Long-term systemic effects | 70 mg/m3  |
|                    | Workers   | Inhalation      | Long-term systemic effects | 484 mg/m3 |
|                    | Workers   | Inhalation      | Long-term local effects    | 265 mg/m3 |
|                    | Workers   | Dermal          | Long-term systemic effects | 200 mg/kg |
|                    | Consumers | Inhalation      | Long-term systemic effects | 120 mg/m3 |
|                    | Consumers | Inhalation      | Long-term local effects    | 47 mg/m3  |
|                    | Consumers | Dermal          | Long-term systemic effects | 100 mg/kg |
|                    | Consumers | Oral            | Long-term systemic effects | 60 mg/kg  |

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

| Substance name     | Environmental Compartment | Value      |
|--------------------|---------------------------|------------|
| Dimethyl sulfoxide | Fresh water               | 17 mg/l    |
|                    | Oral                      | 700 mg/kg  |
|                    | Sewage treatment plant    | 11 mg/l    |
|                    | Soil                      | 3,02 mg/kg |
|                    | Sediment                  | 13,4 mg/kg |
|                    | Marine water              | 1,7 mg/l   |

### 8.2 Exposure controls

#### Engineering measures

Avoid splashes.

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Material : Nitrile rubber

Rate of permeability : > 480 min

Skin and body protection

: Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
No special protective equipment required.

Respiratory protection

: No personal respiratory protective equipment normally required.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : Aqueous solution

Colour : yellow-orange

Odour : no data available

Odour Threshold : no data available

pH : 6 - 8

Freezing point : no data available

Boiling point/boiling range : no data available

Flash point : does not flash

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Upper explosion limit : no data available

Lower explosion limit : no data available

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|  |                     |
|--|---------------------|
| Vapour pressure                        | : no data available |
| Relative vapour density                | : no data available |
| Relative density                       | : no data available |
| Density                                | : no data available |
| Solubility(ies)                        |                     |
| Water solubility                       | : soluble           |
| Partition coefficient: n-octanol/water | : no data available |
| Auto-ignition temperature              | : no data available |
| Decomposition temperature              | : no data available |
| Viscosity                              | : no data available |
| Explosive properties                   | : no data available |
| Oxidizing properties                   | : no data available |

#### 9.2 Other information

no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under normal conditions.

### 10.4 Conditions to avoid

Conditions to avoid : no data available

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

### 10.6 Hazardous decomposition products

No decomposition if stored normally.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Further information

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Remarks: No data is available on the product itself.

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**SECTION 12: Ecological information****12.1 Toxicity**

Toxicity to fish : Remarks: no data available

**12.2 Persistence and degradability**

Biodegradability : Result: no data available

**12.3 Bioaccumulative potential**

Bioaccumulation : Remarks: no data available

Remarks: no data available

**12.4 Mobility in soil**

Distribution among environmental compartments : Remarks: no data available

**12.5 Results of PBT and vPvB assessment**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

Additional ecological information : no data available

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**Product : Dispose of contents/container in accordance with local regulation.  
Contact waste disposal services.



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**SECTION 14: Transport information****IATA** Not dangerous goods

14.1 UN number : Not applicable  
14.2 Proper shipping name : Not applicable  
14.3 Transport hazard class : Not applicable  
14.4 Packing group : Not applicable  
14.5 Environmental hazards : no

**IMDG** Not dangerous goods

14.1 UN number : Not applicable  
14.2 Proper shipping name : Not applicable  
14.3 Transport hazard class : Not applicable  
14.4 Packing group : Not applicable  
14.5 Environmental hazards : Marine pollutant: no

**ADR** : Not dangerous goods

14.1 UN number : Not applicable  
14.2 Proper shipping name : Not applicable  
14.3 Transport hazard class : Not applicable  
14.4 Packing group : Not applicable  
14.5 Environmental hazards : no

**RID** : Not dangerous goods

14.1 UN number : Not applicable  
14.2 Proper shipping name : Not applicable  
14.3 Transport hazard class : Not applicable  
14.4 Packing group : Not applicable  
14.5 Environmental hazards : no

**DOT** : Not dangerous goods

14.1 UN number : Not applicable  
14.2 Proper shipping name : Not applicable  
14.3 Transport hazard class : Not applicable  
14.4 Packing group : Not applicable  
14.5 Environmental hazards : no

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**TDG** : Not dangerous goods

**14.1 UN number** : Not applicable

**14.2 Proper shipping name** : Not applicable

**14.3 Transport hazard class** : Not applicable

**14.4 Packing group** : Not applicable

**14.5 Environmental hazards** : no

**14.6 Special precautions for user** : none

**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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

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

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

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

#### National regulatory information

Water contaminating class (Germany) : WGK 1 slightly hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

### 15.2 Chemical safety assessment

not required

## SECTION 16: Other information

#### Further information

#### Full text of other abbreviations

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ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ATE - Acute Toxicity Estimate; AwSV - Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen / Ordinance on facilities for handling substances that are hazardous to water; BPR – Biocidal Product Regulation; bw - Body weight; CAS - Chemical Abstract Service; CLP - Classification Labelling Packaging Regulation, Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL-Derived No Effect Level; DOT - Department of Transportation; EC – European Community; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EmS (Emergency Response Procedures for Ships Carrying Dangerous Goods); EN – European Standard; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; EU OEL - European Occupational Exposure Limit; GHS -Globally Harmonized System of Classification and Labelling of Chemicals; GLP - Good Laboratory Practice; GV – Danish Exposure Limits for Substances and Materials; 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; IMDG - International Maritime Dangerous Goods; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); LOFT - Danish Threshold Limit Value; MAK - German Threshold Limit Value; MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NIOSH/Guide – National Institute of Safety and Health Guidebook; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT - Persistent, Bioaccumulative and Toxic substance; PEL - Permissible Exposure Limit; PNEC - Predicted no Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; REL - Recommended Exposure Limit; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; STEL - Short-Term Exposure Limit; TDG - Transportation of Dangerous Goods; TGG – Dutch Threshold Limit Value; TGV – Swedish OEL; TLV Threshold Limit Value; TLV-C - Threshold Limit Value Ceiling; TWA -Time Weighted Average; UDS - Unscheduled DNA Synthesis; UN - United Nations; VLE - Valeurs limites d'exposition professionnelle aux agents chimiques en France; VME - Valeur (Limite) Moyenne d'Exposition; VOC - Volatile Organic Compound[s]; WEEL - Workplace Environmental Exposure Level; % w/w Percent weight by weight; %(V) Percent Volume

Date format : dd.mm.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.

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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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

Product name : MAT Culture Medium Supplement

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

Use of the Substance/Mixture : For Research Use Only. Not for use in diagnostic procedures.

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

Company : **Lonza Ltd**  
Muenchensteinerstrasse 38  
CH-4002 Basel, Switzerland  
Business Telephone: +41 61 316 81 11

**Lonza Verviers Sprl**  
Parc Industriel de Petit-Rechain  
BE-4800 Verviers, Belgium  
Business Telephone: +32 8732 1611

**Lonza Cologne GmbH**  
Nattermannallee 1  
DE-50829 Köln, Germany  
Business Telephone: + 49 221 99 1990

**Lonza Copenhagen ApS**  
Strandhaven 12  
DK-2665 Vallengbaek Strand, Denmark  
Business Telephone: + 45 4356 7400

E-mail address : sds@lonza.com

Responsible/issuing person

**1.4 Emergency telephone number**Emergency telephone number : Lonza Ltd, CH-4002 Basel, Switzerland  
Telephone: +41 61 313 94 94 (24h)

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**Additional Labelling**

EUH210 Safety data sheet available on request.

EUH208 Contains Penicillin-G potassium salt. May produce an allergic reaction.

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#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name               | CAS-No.<br>EC-No.<br>Index-No.<br>REACH Registration<br>Number | Classification                            | Concentration<br>(% w/w) |
|-----------------------------|--|---|--------------------------|
| Streptomycin sulphate       | 3810-74-0<br>223-286-0   | Acute Tox. 4; H302<br>Repr. 2; H361       | $\geq 0,2$ - $< 0,3$     |
| Penicillin-G potassium salt | 113-98-4<br>204-038-0  | Resp. Sens. 1; H334<br>Skin Sens. 1; H317 | $\geq 0,1$ - $< 0,2$     |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- If inhaled : Move to fresh air.  
Call a physician immediately.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.  
Take off all contaminated clothing immediately.  
Call a physician immediately.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Call a physician immediately.
- If swallowed : Immediately give plenty of water (if possible charcoal slurry).  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.

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

- Symptoms : No information available.

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

- Treatment : No information available.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Water spray  
Dry powder  
Foam

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

Hazardous combustion products : No hazardous combustion products are known

**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Use water spray to cool unopened containers.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use respirator when performing operations involving potential exposure to vapour of the product.

**6.2 Environmental precautions**

Environmental precautions : Do not flush into surface water or sanitary sewer system.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**6.4 Reference to other sections**

For personal protection see section 8.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : In case of insufficient ventilation, wear suitable respiratory equipment.  
Avoid exposure - obtain special instructions before use.  
Use only in area provided with appropriate exhaust ventilation.  
Avoid contact with skin and eyes.

Advice on protection against fire and explosion : Take precautionary measures against static discharges.

Hygiene measures : DANGER! Avoid contact with the skin and the eyes. Avoid

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breathing dust or spray mist. Wash hands before breaks and immediately after handling the product.

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

Requirements for storage areas and containers : No special storage conditions required.

#### 7.3 Specific end use(s)

Specific use(s) : No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Engineering measures

Avoid splashes.

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Material : Nitrile rubber

Rate of permeability : > 480 min

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Complete suit protecting against chemicals

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Respirator with a vapour filter (EN 141)

Respirator with ABEK filter.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : Aqueous solution

Colour : orange

Odour : no data available

Odour Threshold : no data available



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|  |                     |
|--|---------------------|
| pH                                     | : 6 - 8             |
| Freezing point                         | : no data available |
| Boiling point/boiling range            | : no data available |
| Flash point                            | : does not flash    |
| Evaporation rate                       | : no data available |
| Flammability (solid, gas)              | : no data available |
| Upper explosion limit                  | : no data available |
| Lower explosion limit                  | : no data available |
| Vapour pressure                        | : no data available |
| Relative vapour density                | : no data available |
| Relative density                       | : no data available |
| Density                                | : no data available |
| Solubility(ies)                        |                     |
| Water solubility                       | : soluble           |
| Partition coefficient: n-octanol/water | : no data available |
| Auto-ignition temperature              | : no data available |
| Decomposition temperature              | : no data available |
| Viscosity                              | : no data available |
| Explosive properties                   | : no data available |
| Oxidizing properties                   | : no data available |

#### 9.2 Other information

no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under normal conditions.

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#### 10.4 Conditions to avoid

Conditions to avoid : no data available

#### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

#### 10.6 Hazardous decomposition products

No decomposition if stored normally.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Further information

Remarks: No data is available on the product itself.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Toxicity to fish : Remarks: no data available

#### 12.2 Persistence and degradability

Biodegradability : Result: no data available

#### 12.3 Bioaccumulative potential

Bioaccumulation : Remarks: no data available

Remarks: no data available

#### 12.4 Mobility in soil

Distribution among environmental compartments : Remarks: no data available

#### 12.5 Results of PBT and vPvB assessment

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

Additional ecological information : no data available

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

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- |                        |   |  |
|------------------------|---|--|
| Product                | : | Dispose of contents/container in accordance with local regulation.<br>Contact waste disposal services. |
| Contaminated packaging | : | Dispose of as unused product.  |

## SECTION 14: Transport information

**IATA** Not dangerous goods

- |      |                        |   |                |
|------|------------------------|---|----------------|
| 14.1 | UN number              | : | Not applicable |
| 14.2 | Proper shipping name   | : | Not applicable |
| 14.3 | Transport hazard class | : | Not applicable |
| 14.4 | Packing group          | : | Not applicable |
| 14.5 | Environmental hazards  | : | no             |

**IMDG** Not dangerous goods

- |      |                        |   |                      |
|------|------------------------|---|----------------------|
| 14.1 | UN number              | : | Not applicable       |
| 14.2 | Proper shipping name   | : | Not applicable       |
| 14.3 | Transport hazard class | : | Not applicable       |
| 14.4 | Packing group          | : | Not applicable       |
| 14.5 | Environmental hazards  | : | Marine pollutant: no |

**ADR** Not dangerous goods

- |      |                        |   |                |
|------|------------------------|---|----------------|
| 14.1 | UN number              | : | Not applicable |
| 14.2 | Proper shipping name   | : | Not applicable |
| 14.3 | Transport hazard class | : | Not applicable |
| 14.4 | Packing group          | : | Not applicable |
| 14.5 | Environmental hazards  | : | no             |

**RID** Not dangerous goods

- |      |                        |   |                |
|------|------------------------|---|----------------|
| 14.1 | UN number              | : | Not applicable |
| 14.2 | Proper shipping name   | : | Not applicable |
| 14.3 | Transport hazard class | : | Not applicable |
| 14.4 | Packing group          | : | Not applicable |
| 14.5 | Environmental hazards  | : | no             |

**DOT** Not dangerous goods

- |      |                        |   |                |
|------|------------------------|---|----------------|
| 14.1 | UN number              | : | Not applicable |
| 14.2 | Proper shipping name   | : | Not applicable |
| 14.3 | Transport hazard class | : | Not applicable |
| 14.4 | Packing group          | : | Not applicable |
| 14.5 | Environmental hazards  | : | no             |

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**TDG** : Not dangerous goods

**14.1 UN number** : Not applicable

**14.2 Proper shipping name** : Not applicable

**14.3 Transport hazard class** : Not applicable

**14.4 Packing group** : Not applicable

**14.5 Environmental hazards** : no

**14.6 Special precautions for user** : none

**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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

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

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

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

#### National regulatory information

Water contaminating class (Germany) : WGK 2 obviously hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

### 15.2 Chemical safety assessment

not required

## SECTION 16: Other information

#### Full text of H-Statements

H302 : Harmful if swallowed.  
H317 : May cause an allergic skin reaction.  
H334 : May cause allergy or asthma symptoms or breathing difficulties

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H361 : if inhaled.  
Suspected of damaging fertility or the unborn child.

#### Further information

#### Full text of other abbreviations

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ATE - Acute Toxicity Estimate; AwSV - Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen / Ordinance on facilities for handling substances that are hazardous to water; BPR - Biocidal Product Regulation; bw - Body weight; CAS - Chemical Abstract Service; CLP - Classification Labelling Packaging Regulation, Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL-Derived No Effect Level; DOT - Department of Transportation; EC - European Community; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EmS (Emergency Response Procedures for Ships Carrying Dangerous Goods); EN - European Standard; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; EU OEL - European Occupational Exposure Limit; GHS - Globally Harmonized System of Classification and Labelling of Chemicals; GLP - Good Laboratory Practice; GV - Danish Exposure Limits for Substances and Materials; 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; IMDG - International Maritime Dangerous Goods; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); LOFT - Danish Threshold Limit Value; MAK - German Threshold Limit Value; MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NIOSH/Guide - National Institute of Safety and Health Guidebook; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT - Persistent, Bioaccumulative and Toxic substance; PEL - Permissible Exposure Limit; PNEC - Predicted no Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; REL - Recommended Exposure Limit; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; STEL - Short-Term Exposure Limit; TDG - Transportation of Dangerous Goods; TGG - Dutch Threshold Limit Value; TGV - Swedish OEL; TLV Threshold Limit Value; TLV-C - Threshold Limit Value Ceiling; TWA - Time Weighted Average; UDS - Unscheduled DNA Synthesis; UN - United Nations; VLE - Valeurs limites d'exposition professionnelle aux agents chimiques en France; VME - Valeur (Limite) Moyenne d'Exposition; VOC - Volatile Organic Compound[s]; WEEL - Workplace Environmental Exposure Level; % w/w Percent weight by weight; %(V) Percent Volume

Date format : dd.mm.yyyy

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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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