



# SAFETY DATA SHEET

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**Ticarcillin disodium / Potassium Clavulanate 15/1****T0190****Danger**

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

### 1.1. Product identifier

Identification of the product : Raw material  
Product code : T0190  
Trade name : Ticarcillin disodium / Potassium Clavulanate 15/1

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

Use : For professional use only.  
Duchefa Biochemie B.V. products are only intended for in vitro laboratory research purposes.

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

Company identification : Duchefa Biochemie B.V.  
A. Hofmanweg 71  
2031 BH Haarlem The Netherlands  
Tel: +31(0)23-5319093  
Fax: +31(0)23-5318027  
E-mail:info@duchefa.nl

### 1.4. Emergency telephone number

Emergency phone nr : Tel: (+31)-(0)23-5319093 (local time : 9.00 to 17.00)

## SECTION 2 Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification EC 67/548 or EC 1999/45

: R42/43

#### Hazard Class and Category Code Regulation EC 1272/2008 (CLP)

- Health hazards : Respiratory sensitization - Category 1 - Danger (CLP : Resp. Sens. 1)  
Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1)

### 2.2. Label elements

#### Labelling EC 67/548 or EC 1999/45

- Symbol(s)



: Xn : Harmful

- R Phrase(s) : R42/43 : May cause sensitization by inhalation and skin contact.
- S Phrase(s) : S22 : Do not breathe dust.  
S24/25 : Avoid contact with skin and eyes.  
S36 : Wear suitable protective clothing.

#### Labelling Regulation EC 1272/2008 (CLP)

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## SECTION 2 Hazards identification (continued)

### • Hazard pictograms



- Hazard pictograms code : GHS08
- Signal words : Danger
- Hazard statements : H319 - Causes serious eye irritation.  
H315 - Causes skin irritation.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 - May cause an allergic skin reaction.
- Precautionary statements
  - Prevention : P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P261 - Avoid breathing dust, fume, gas, mist, vapours, spray.
  - Response : P302+P352 - IF ON SKIN : Wash with plenty of soap and water.  
P342+P311 - If experiencing respiratory symptoms : Call a POISON CENTER or doctor.  
P305+P351 - IF IN EYES : Rinse cautiously with water for several minutes.

### 2.3. Other hazards

None under normal conditions.

## SECTION 3 Composition/information on ingredients

**Substance / Preparation** : Preparation.

Substance name	Contents	CAS No	EC No	Annex No	Ref REACH	Classification
Ticarcillin disodium	: Circa 93.75	4697-14-7	----	----	----	R42/43 ----- Resp. Sens. 1 Skin Sens. 1
Potassium clavulanate	: Circa 6.25	61177-45-5	262-640-9	----	----	F; R11 R14 Xi; R36 ----- Flam. Sol. 1 Eye irrit 2 Self-react. D

Ticarcillin Disodium Structural formula C<sub>15</sub>H<sub>14</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>6</sub>S<sub>2</sub>

Ticarcillin Disodium Molecular weight (g/mol) 428.4

Clavulanate Potassium Structural formula C<sub>8</sub>H<sub>8</sub>KNO<sub>5</sub>

Clavulanate Potassium Molecular weight (g/mol) 237.3

## SECTION 4 First aid measures

### 4.1. Description of first aid measures

- Inhalation : Remove victim to fresh air.  
If you feel unwell, seek medical advice.
- Skin contact : Wash skin with mild soap and water.  
If you feel unwell, seek medical advice.
- Eye contact : Rinse with water.  
If you feel unwell, seek medical advice.
- Ingestion : Rinse mouth.  
If you feel unwell, seek medical advice.

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

**Symptoms and effects, both acute and delayed** : No data available.

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

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## SECTION 4 First aid measures (continued)

Medical attention and special treatment needed : No data available.

## SECTION 5 Fire-fighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray.  
Carbon dioxide (CO<sub>2</sub>).  
Dry powder.

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

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.  
NO<sub>x</sub>  
SO<sub>x</sub>  
CO<sub>x</sub>

### 5.3. Advice for fire-fighters

Flammable class : Not combustible.  
Protection against fire : Wear proper protective equipment.  
Special procedures : Avoid (reject) fire-fighting water to enter environment.

## SECTION 6 Accidental release measures

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

### 6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters.

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

Clean up methods : Sweep up dry powder and dispose properly.

### 6.4. Reference to other sections

Reference to other sections : No Reference

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

General : Minimize generation of dust. Store in dry, well-ventilated area.

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

Storage : Store at 2 - 8 °C

### 7.3. Specific end use(s)

Specific end use(s) : For professional use only.  
Duchefa Biochemie B.V. products are only intended for in vitro laboratory research purposes.

## SECTION 8 Exposure controls/personal protection

### 8.1. Control parameters

No data available.

### 8.2. Exposure controls

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## SECTION 8 Exposure controls/personal protection (continued)

- Eye protection : Safety glasses.
- Skin protection : Wear suitable protective clothing.
- Hand protection : Wear gloves.
- Respiratory protection : P2 Where excessive dust may result, wear approved mask.

## SECTION 9 Physical and chemical properties

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

#### • Appearance

Appearance : Powder.

Colour : White.

#### • Odour

Odour : Not established.

#### • Odour threshold

Odour threshold : Not established.

#### • pH

pH value : No data available.

#### • Melting point / Freezing point

Melting point [°C] : 252.6

#### • Initial boiling point - boiling range

Boiling point [°C] : No data available.

#### • Flash point

Flash point [°C] : No data available.

#### • Evaporation rate

Evaporation rate (ether=1) : No data available.

#### • Flammability

Flammability range [vol% in air] : No data available.

#### • Explosion limits (lower - upper)

Explosion limits : No data available.

#### • Vapour pressure

Vapour pressure : No data available.

#### • Vapour density

Relative vapour density (air=1) : No data available.

#### • Relative density

Relative density : Not established.

#### • Solubility

Solubility in water : Good.

#### • Partition coefficient : n-octanol / water

Log P octanol / water at 20°C : Not established.

#### • Auto-ignition temperature

Auto-ignition temperature [°C] : No data available.



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## SECTION 9 Physical and chemical properties (continued)

### • Thermal decomposition

Thermal decomposition [°C] : No data available.

### • Viscosity

Viscosity : No data available.

### • Explosive Properties

Explosive Properties : Not established.

### • Oxidising properties

Oxidising properties : Not established.

### 9.2. Other information

Other data : No data available.

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

Reactivity : Stable under normal conditions.

### 10.2. Chemical stability

Stability : Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Conditions to avoid : Moisture.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

Hazardous decomposition products : On exposure to high temperature, may decompose, releasing toxic gases.

## SECTION 11 Toxicological information

### 11.1. Information on toxicological effects

Toxicity information : Ingestion may cause nausea, vomiting and diarrhea.

- Inhalation : Dust from this product may cause respiratory irritation.

- Dermal : May cause eye irritation.

- Other : See actual entry in RTECS for complete information. TC6615500

Rabbit oral LD50 [mg/kg] : 2000

Sensitization : May cause sensitization by inhalation and skin contact.

Subacute toxicity

## SECTION 12 Ecological information

### 12.1. Toxicity

No data available.

L.idus LC0 (mg/l) : Circa 900

### 12.2. Persistence - degradability

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## SECTION 12 Ecological information (continued)

No data available.

### **12.3. Bioaccumulative potential**

No data available.

### **12.4. Mobility in soil**

No data available.

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

No data available.

### **12.6. Other adverse effects**

No data available.

#### **Environmental precautions**

: Prevent entry to sewers and public waters.  
Avoid release to the environment.

## SECTION 13 Disposal considerations

### **13.1. Waste treatment methods**

#### **General**

: Dispose in a safe manner in accordance with local/national regulations.  
Avoid release to the environment.

## SECTION 14 Transport information

### **14.1. UN Number**

Not applicable.

### **14.2. Proper shipping name**

Not applicable.

### **14.3. Transport Hazard Classification**

Not applicable.

### **14.4. Packing group**

Not applicable.

### **14.5. Environmental hazards**

Not applicable.

### **14.6. Special precautions for user**

Not applicable.

### **14.7. Bulk transport - annex II Marpol 73/78 - IBC**

Not applicable.

## SECTION 15 Regulatory information

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

Ensure all national/local regulations are observed.

### **15.2. Chemical Safety Assessment**

Not established.

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## SECTION 16 Other information

**Further information** : The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

**Revision** : Complete SDS revision

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

**End of document**