

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.0 Revision Date 10.11.2016

Print Date 21.11.2018

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

#### 1.1 Product identifiers

Product name : Cefuroxime sodium

Product Number : C0695000

Brand : Sigma-Aldrich

REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

CAS-No. : 56238-63-2

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

Identified uses : Laboratory chemicals, Manufacture of substances

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

Company : Sigma-Aldrich Inc.  
3050 Spruce Street  
ST. LOUIS MO 63103  
UNITED STATES

Telephone : +1 314 771-5765

Fax : +1 800 325-5052

#### 1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Skin sensitisation (Category 1), H317

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 Label elements

##### Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word : Warning

Hazard statement(s)  
H317 : May cause an allergic skin reaction.

Precautionary statement(s)  
P280 : Wear protective gloves.

Supplemental Hazard  
Statements : none

### 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

### 3.1 Substances

Formula : C<sub>16</sub>H<sub>15</sub>N<sub>4</sub>NaO<sub>8</sub>S  
Molecular weight : 446.4 g/mol  
CAS-No. : 56238-63-2

#### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
<b>Sodium [6r-[6<math>\alpha</math>,7<math>\beta</math>(z)]]-3-[[[(aminocarbonyl)oxy]methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-</b>		
CAS-No. EC-No.	56238-63-2 260-073-1	Skin Sens. 1; H317  <= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Sodium oxides

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

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## SECTION 6: Accidental release measures

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

Avoid dust formation. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

## 6.2 Environmental precautions

No special environmental precautions required.

## 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Non Combustible Solids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice.

#### Personal protective equipment

##### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Respiratory protection is not required. Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Control of environmental exposure

No special environmental precautions required.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- |                    |                   |
|--------------------|-------------------|
| a) Appearance      | Form: solid       |
| b) Odour           | No data available |
| c) Odour Threshold | No data available |

d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

## 9.2 Other safety information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents, Alkali metals

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Sodium oxides

In the event of fire: see section 5

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - > 10,000 mg/kg(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl]oxy]methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

LD50 Intramuscular - Rabbit - > 300 mg/kg(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl]oxy]methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

LD50 Intramuscular - Rat - > 2,000 mg/kg(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl]oxy]methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

LD50 Intramuscular - Mouse - > 2,000 mg/kg(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl]oxy]methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

LD50 Intraperitoneal - Rat - 10,000 mg/kg(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl]oxy]methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

Remarks: Kidney, Ureter, Bladder:Other changes.

LD50 Intraperitoneal - Mouse - > 10,000 mg/kg(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl]oxy]methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

LD50 Intravenous - Rabbit - > 1,500 mg/kg(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl]oxy]methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

LD50 Intravenous - Rat - 4,000 mg/kg(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl]oxy]methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

Remarks: Behavioral:Altered sleep time (including change in righting reflex). Lungs, Thorax, or Respiration:Respiratory stimulation. Diarrhoea

LD50 Intravenous - Mouse - 10,400 mg/kg(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl]oxy]methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

#### Skin corrosion/irritation

No data available(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl]oxy]methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

#### Serious eye damage/eye irritation

No data available(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl]oxy]methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

#### Respiratory or skin sensitisation

##### Germ cell mutagenicity

No data available(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl]oxy]methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### Reproductive toxicity

##### Specific target organ toxicity - single exposure

No data available(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl]oxy]methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

##### Specific target organ toxicity - repeated exposure

No data available

#### Aspiration hazard

No data available(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl]oxy]methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

#### Additional Information

RTECS: Not available

Diarrhoea, Vomiting, Itching, eosinophilia, Kidney disorders, Liver disorders, decreased hemoglobin level, Because of the similarity in structure of the penicillins and cephalospori manifest cross-allergenicity when a member of the other class is encounte(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl)oxy)methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

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## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available(Sodium [6r-[6 $\alpha$ ,7 $\beta$ (z)]]-3-[[aminocarbonyl)oxy)methyl]-7-[2-furyl(methoxyimin o)acetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-)

### 12.5 Results of PBT and vPvB 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

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

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## SECTION 14: Transport information

### 14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

### 14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for user

No data available

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## SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

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**SECTION 16: Other information****Full text of H-Statements referred to under sections 2 and 3.**

H317                      May cause an allergic skin reaction.

**Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.