

Ampicillin Sodium Salt**AMP****SECTION 1 Identification of the substance/mixture and of the company/undertaking**According to REACH Regulations (EC) 1907 / 2006 and (EU) 2020/878**1.1. Product identifier**

Identification of the product : Raw material
Product code : AMP01, AMP05, AMP10, AMP25, AMP50, AMP100
Trade name : Ampicillin Sodium Salt
CAS number : 000069-52-3
EINECS : 200-708-1
Molecular Formula : C₁₆H₁₈N₃NaO₄S
Molecular Weight : 371.39 g/mol

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

Use : For research purposes only

1.3. Details of the supplier of the safety data sheet

Company identification **Formedium Ltd.**
King's Lynn, England, PE31 6DJ
Tel: +44(0)1485 609069
Web: www.Formedium.com
E-mail: info@formedium.com

1.4. Emergency telephone number

Emergency phone number : Tel: +44(0)1485 609069 (local time : 09.00 to 17.00)
National Poison Information Centre : Europe UK : +44 0845 4647
(this service is only available to health professionals)
See www.toxbase.org for a local poison centre

SECTION 2 Hazards identification**2.1. Classification of the substance or mixture**

Classification under CLP according to (EC) 1272/2008

Hazard categories:

H315 - Skin Irr. 2
H317 - Skin Sens. 1
H319 - Eye Irr. 2A
H334 - Resp. Sens. 1
H335 - STOT SE 3
H336 - STOTSE 3

2.2. Label elements

Classification under CLP according to (EC) 1272/2008

Pictograms :



• Signal word

: **Danger**

Ampicillin Sodium Salt**AMP****SECTION 2 Hazards identification (continued)****Hazard statements**

- H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness

Precautionary statements

- P261 Avoid breathing dust.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses if present and easy to do - continue rinsing.
P342+P311 IF experiencing respiratory symptoms: Call a POISON CENTER /d Doctor
P264 Do not breathe fume.

2.3. Other hazards

PBT

This substance is not identified as a PBT substance.

SECTION 3 Composition / information on ingredients**3.1. Substances****Chemical characterization**Synonyms : D-(-)- α -Aminobenzylpenicillinsodium saltFormula : C₁₆H₁₈N₃NaO₄S

Molecular Weight : 371.39 g/mol

CAS No : 69-52-3

EC No : 200-708-1

Component :

Sodium [2S-[2 α ,5 α ,6 β (S*)]]-6-(aminophenylacetamido)-3,3-dimethyl-7-oxo-4-thia-1 azabicyclo[3.2.0]heptane-2-carboxylat**SECTION 4 First aid measures****4.1. Description of first aid measures****General Information:** Consult a physician. Show this safety data sheet to the doctor in attendance.**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a physician.**Skin contact:** Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Remove all contaminated clothing and footwear immediately unless stuck to skin. Consult a physician.**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a physician.**Ingestion:** Do not induce vomiting. If conscious give half a litre of water immediately. Wash out mouth with water. Consult a physician.**4.2. Most important symptoms and effects, both acute and delayed****Inhalation:** Nausea and stomach pain may occur. There may be soreness and redness of the mouth and throat. There may be vomiting.**Skin contact:** There may be irritation and redness at the site of contact.**Eye contact:** The eyes may water profusely. There may be irritation and redness.**Ingestion:** Nausea and stomach pain may occur. There may be soreness and redness of the mouth and throat. There may be vomiting.**Delayed / Immediate effects:** Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.**4.3. Indication of any immediate medical attention and special treatment needed**

Do not induce vomiting.

Ampicillin Sodium Salt**AMP****SECTION 5 Fire-fighting measures****5.1. Extinguishing media**

Suitable extinguishing media : Water spray.
Alcohol resistant foam.
Dry extinguishing powder.
Carbon Dioxide (CO₂).

Unsuitable extinguishing media : High power water jet.

5.2. Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides, Sodium oxides.

5.3. Advice for firefighters

Wear protective clothing to protect skin and eyes. ear self-contained breathing apparatus.

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

If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point.
Mark out the contaminated area with signs and prevent access to unauthorised personnel.
Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Do not allow product to enter drains or surface water.

6.3. Methods and material for containment and cleaning up

Clean up procedures
Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Refer to section 8 of the SDS. For disposal : see section 13

SECTION 7 Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid direct contact with the substance.
Avoid the formation or spread of dust in the air.
Do not handle in a confined space.
Ensure there is sufficient ventilation of the area.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Avoid contact with water or humidity.
Store in a cool, well ventilated place.
Keep container tightly closed.

Recommended storage temperature

2 – 8 Deg C

7.3. Specific end use(s)

For research purposes only.

Ampicillin Sodium Salt**AMP****SECTION 8 Exposure controls/personal protection****8.1. Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

8.2. Exposure controls**Appropriate engineering controls**

Ensure there is sufficient ventilation of the area. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Personal protective equipment**Eye / face protection**

Ensure eye bath is to hand. Wear safety glasses when handling.

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Skin protection

Wear suitable protective clothing.

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.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Self-contained breathing apparatus must be used in the event of an emergency.

SECTION 9 Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state : Powder
Colour : off-white
Odour : no data available
pH value (at 20°C) : 8 – 10 100 g/l

Changes in the physical state

Melting point : 215 °C
Initial boiling point and boiling range: no data available
Flash point : no data available

Flammability

Solid : not determined
Gas : not determined
Lower explosion limits : not determined
Upper explosion limits : not determined

Ampicillin Sodium Salt**AMP****SECTION 9 Physical and chemical properties (continued)****Auto-ignition temperature**

Solid : not determined.

Gas : not applicable.

Decomposition temperature : not determined.

Oxidizing properties

Not oxidizing

Vapour pressure : not determined.

Density (at 20°C) : not determined

Bulk density (at 20°C) : not determined

Water solubility (at 20°C) : 50 g/L

Solubility in other solvents

Not determined

Partition coefficient : not determined

Vapour density : not determined

Evaporation rate : not determined

9.2. Other information

No data available

SECTION 10 Stability and reactivity**10.1. Reactivity**

Stable under recommended storage and transport conditions.

10.2. Chemical stability

The product is chemically stable under normal conditions.

10.3. Possibility of hazardous reactionsDecomposition may occur on exposure to conditions or materials listed below.
Hazardous reactions will not occur under normal transport or storage conditions.**10.4. Conditions to avoid**

Heat. Exposure to moisture.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

No data available.

Ampicillin Sodium Salt**AMP****SECTION 11 Toxicological information****11.1. Information on toxicological effects**

- a) **Acute toxicity** : No data available.
- b) **Skin corrosion/irritation** : Skin corrosion/irritation (Category 2)
- c) **Serious eye damage/irritation** : Serious eye damage/eye irritation (Category 2A)
- d) **Respiratory or skin sensitisation** : Sensitization, Skin (Category 1)
- e) **Germ cell mutagenicity** : No data available.
- f) **Carcinogenicity** : No data available.
- g) **Reproductive toxicity** : No data available.
- h) **STOT-single exposure** : Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)
- i) **STOT-repeated exposure** : No data available.
- j) **Aspiration hazard** : No data available.

11.2. Symptoms / routes of exposure

Inhalation: Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be vomiting.

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: The eyes may water profusely. There may be irritation and redness.

Ingestion: Nausea and stomach pain may occur. There may be soreness and redness of the mouth and throat. There may be vomiting.

Delayed / Immediate effects: Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.

11.3. Additional Information**Endocrine disrupting properties**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Ampicillin Sodium Salt**AMP****SECTION 12 Ecological information****12.1. Toxicity**

No data available.

12.2. Persistence and degradability

Biodegradable.

12.3. Bioaccumulative potential

No bioaccumulation potential.

12.4. Mobility in soil

Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

This substance is not identified as a PBT substance.

12.6. Endocrine disrupting properties

This substance is not identified as having endocrine disrupting properties.

12.7. Other adverse effects

No data available.

12.8. Endocrine disrupting properties

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13 Disposal considerations**13.1. Waste treatment methods****Disposal operations**

Transfer to a suitable container and arrange for collection by specialised disposal company.

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

NB: The user's attention is drawn to the possible existence of regional or national regulations relating to disposal.**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

Ampicillin Sodium Salt**AMP****SECTION 14 Transport information**

This product does not require a classification for any mode of transport.

SECTION 15 Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16 Other information**Hazard statements**

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

Further information : 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. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision: Complete SDS revision