

Carbenicillin Disodium salt

CAR0005
CAR0025

SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product identifier

Identification of the product : Raw Material
Product code : CAR0005, CAR0025
Trade name : Carbenicillin Disodium salt
CAS number : 4800-94-6



Danger

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 nr : Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)
NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours)

SECTION 2 Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008

Physical hazards : Not classified
Health hazards : Resp. Sens. Category: 1 – H334, Skin Sens Category: 1 – H317
Environmental hazards : Not classified

2.2. Label elements

Labelling according to Regulation (EC) 1272/2008

Signal word: **Danger**



Hazard statement(s): H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statement(s): P261 Avoid breathing dust.
P280 Wear protective gloves / protective clothing / eye protection / 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.
P362 + P364 Take off contaminated clothing and wash it before re-use.
P501 Dispose of contents / container in accordance with national regulations.

SECTION 3 Composition/Information on Ingredients

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

Component

Substance name	contents	CAS No	EC No	Classification
Carbenicillin Disodium salt	100 %	4800-94-6	225-360-8	Resp. Sens. 1; Skin Sens. 1 H334 H317

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

Carbenicillin Disodium salt**CAR0005
CAR0025****SECTION 4 First Aid Measures****4.1. Description of first aid measures****General information:** Consult a physician if you feel unwell.**Inhalation:** Remove person to fresh air and keep comfortable for breathing. If breathing stops, provide artificial respiration. Consult a physician.**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if symptoms are severe or persist.**Skin contact:** Remove contaminated clothing. Rinse with water. Continue to rinse for at least 15 minutes. Wash contaminated clothing before re-use. Get medical attention if symptoms are severe or persist.**Eye contact:** Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist.**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

Treat symptomatically.

SECTION 5 Fire-fighting Measures**5.1. Extinguishing media****Suitable extinguishing media** : Alcohol-resistant foam, Carbon Dioxide (CO₂), Dry powder, Water fog**5.2. Special hazards arising from the substance or mixture**

Under fire conditions, hazardous fumes will be present – Nitrogen oxides, Carbon oxides, Sodium oxides

5.3. Advice for fire-fighters

Wear positive-pressure self contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighters clothing conforming to European standard En489 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents. Use protective equipment appropriate for surrounding materials.

SECTION 6 Accidental Release Measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective clothing as described in section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid inhalation of dusts and vapours

6.2. Environmental precautions

Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Wear protective clothing as described in section 8 of this safety data sheet. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely. Clear up spills immediately and dispose of waste safely. Flush contaminated areas with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see section 13.

6.4. Reference to other sections

For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7 Handling and Storage**7.1. Precautions for safe handling**

Wear protective clothing as described in section 8 of this safety data sheet. Wash hands thoroughly after handling. Provide adequate ventilation. Avoid generation and spreading of dust. Avoid contact with skin and eyes. Avoid inhalation of dust and vapours.

7.2. Conditions for safe storage, including any incompatibilitiesKeep away from heat. Keep container tightly closed. Protect from light.
Recommended storage temperature -20 °C**7.3. Specific end use(s)**

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

Carbenicillin Disodium salt

CAR0005
CAR0025

SECTION 8 Exposure Controls / Personal Protection

8.1. Control parameters

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Appropriate engineering controls Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye / face protection: Tight fitting safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand 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.

Body protection: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min
Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Environmental exposure controls : Keep containers tightly sealed when not in use.

SECTION 9 Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

a) Appearance	Form: solid
b) Colour	White to yellow
c) Odour	No data available
d) Odour Threshold	No data available
e) pH	No data available
f) Melting point/freezing point	> 200 °C
g) Initial boiling point and range	No data available
h) Flash point	No data available
i) Evaporation rate	No data available
j) Flammability (solid, gas)	No data available
k) 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) Solubility	Soluble in water, alcohols, methanol. Insoluble in ether.
o) Partition coefficient: n-octanol/water	log Pow: -0.969 at 23 °C
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

Molecular weight: 422.36

Carbenicillin Disodium salt**CAR0005
CAR0025****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

Moisture

10.5. Incompatible materials

Strong oxidizing agents, Acids.

10.6. Hazardous decomposition products

Oxides of carbon, Oxides of nitrogen, Oxides of sulphur. Sodium oxides.

SECTION 11 Toxicological Information**11.1. Information on toxicological effects****Acute toxicity**

LD50 Oral - Rat - 10,000 mg/kg. Based on available data the classification criteria are not met.

LC50 Inhalation - Based on available data the classification criteria are not met.

LD50 Dermal - Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data - Based on available data the classification criteria are not met.

Serious eye damage/eye irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity – in vitro - Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity – Based on available data the classification criteria are not met.

IARC carcinogenicity

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

Reproductive toxicity (Fertility and development)

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Not relevant – solid.

Additional Information

RTECS: ON9105000

Skin disorders and allergies

Carbenicillin Disodium salt**CAR0005**
CAR0025**SECTION 11 Toxicological Information (Continued)****11.2. 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.

SECTION 12 Ecological Information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity Based on available data the classification criteria are not met.

12.2. Persistence and degradability

Biodegradability The degradability of this product is not known.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6. Other adverse effects

None known.

12.7. 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****Product**

: 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 with an afterburner and scrubber.

Contaminated packaging

: Dispose of as unused product

Carbenicillin Disodium salt**CAR0005**
CAR0025**SECTION 14 Transport Information****14.1. UN Number**

ADR/RID: -

IMDG: -

IATA:-

14.2. UN Proper shipping**name** ADR/RID: -

IMDG: -

IATA: -

14.3. Transport hazard class(es)

ADR/RID:-

IMGD: -

IATA:-

14.4. Packaging group

ADR/RID:-

IMDG: -

IATA: -

14.5. Environmental hazards

ADR/RID: -

IMDG Marine pollutant: -

IATA: -

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**

This safety datasheet complies with the requirements of Regulation (EU) No. 2015/830.

15.6. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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.

End of document