Safety Data Sheet

Ampicillin trihydrate

Version: V2.0.0.1

Report No.: BWJ5683-2016-MSDS-US

Creation Date: 2025/09/30

Revision Date: -



*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1 Identification

| Product identifier

Product Name	Ampicillin trihydrate
Cat No.	BWJ5683-2016
CAS No.	7177-48-2
EC No.	615-347-9
Molecular Formula	C16H19N3O4S.3(H2O)

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang
	City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

| Emergency phone number

Emergency phone number	010-58103678
Emercency bhone humber	UTU=30TU3070

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Skin Corrosion/Irritation	Category 2
Sensitization - skin	Category 1
Serious eye damage/irritation	Category 2
Sensitization - respiratory	Category 1

Label elements

Hazard pictograms



Signal word	Danger	
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	
Precautionary statements		
Prevention		
P261	Avoid breathing dust/fume.	
P264	Wash hands and other parts of the body (if related) thoroughly after handling.	
P272	Contaminated work clothing should not be allowed out of the workplace.	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
P284	In case of inadequate ventilation wear respiratory protection.	
◆ Response		
P321	Specific treatment (see related instructions on the label).	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P302+P332	· · ·	
	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
◆ Storage	renses, it present and easy to do. Continue mising.	
Storage	Not applicable	
◆ Disposal		
·	Diamona of contents/container in accordance with least/regional/patients/	
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.	
Other hazards	Time mational regulations.	
	Not applicable.	
Hazard description		
 Physical and chemical haz 	ards	
	No information available	
Health hazards		
Inhaled	Inhalation of dusts or fumes may cause allergy or asthma symptoms or breathin difficulties if inhaled.	
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual	
Skin Contact	The product may cause an allergic skin reaction following direct contact with the skin. The product can cause skin irritation following direct contact with the skin.	
Eye	This product may cause serious eye irritation. Severe inflammation may be	
	expected with pain following direct contact with the eye.	
 Environmental hazards 		
	Please refer to 12th chapter of SDS.	

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3 Composition/information on ingredients

Substance/mixture

Substance

Component	CAS No.	EC No.	Concentration (wt, %)
4-Thia-1-azabicyclo[3.2.0] heptane-2-carboxylicacid, 6-[[(2R)-2-amino-2-phenyl acetyl]amino]-3,3-dimethyl -7-oxo-, hydrate(1:3), (2S,5R,6R)-	7177-48-2	615-347-9	99.6

4 First-aid measures

Description of first aid measures

•	
General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms/effects, acute and delayed

1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

5 Fire-fighting measures

| Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

Specific hazards arising from the substance or mixture

Development of hazardous combustion gases or vapor possible in the event of fire.
 May expansion or decompose explosively when heated or involved in fire.

Special protective equipment and precautions for fire-fighters

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

- Clore away from moompatible materials and locastal

Exposure controls/personal protection

Control parameters

Occupational exposure limit values

Occupational Exposure limit No relevant regulations values

Engineering controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.

- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

| Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

Appearance (physical state,	White or off-white crystalline powder
color, etc.)	
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling	No information available
range(°C)	
Flash point(Closed cup,°C)	Not applicable
Evaporation rate	Not applicable
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available
Vapor pressure	Not applicable
Vapor density(Air = 1)	Not applicable
Relative density(Water=1)	No information available
Solubility	No information available
n-octanol/water partition	No information available
coefficient	
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity	Not applicable

10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous	No information available.
reactions	
Conditions to avoid	Incompatible materials, heat, flame and spark.

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Incompatible materials	No information available.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

11 Toxicological information

| Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
4-Thia-1-azabicyclo[3.2.0] heptane-2-carboxylicacid, 6-[[(2R)-2-amino-2-phenyl acetyl]amino]-3,3-dimethy I-7-oxo-, hydrate(1:3), (2S,5R,6R)-	10000mg/kg(Rat)	No information available	No information available

| Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
4-Thia-1-azabicyclo[3.2.0]	Not Listed	Not Listed	Not Listed
heptane-2-carboxylicacid,			
6-[[(2R)-2-amino-2-phenyl			
acetyl]amino]-3,3-dimethy			
I-7-oxo-, hydrate(1:3),			
(2S,5R,6R)-			

Others

4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylicacid, 6-[[(2R)-2-amino-2-phenylacetyl]amino]-3,3-dimethyl-7-oxo-, hydrate(1:3), (2S,5R,6R)-(Component)							
Skin corrosion/irritation	Causes skin irritation(Category 2)						
Serious eye damage/irritation	Causes serious eye irritation(Category 2)						
Skin sensitization	May cause an allergic skin reaction(Category 1)						
Respiratory sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled(Category 1)						
Reproductive toxicity	Based on available data, the classification criteria are not met						
STOT-repeated exposure	Based on available data, the classification criteria are not met						
Aspiration hazard	Based on available data, the classification criteria are not met						
Germ cell mutagenicity	Based on available data, the classification criteria are not met						

12 Ecological information

| Acute aquatic toxicity

Acute aquatic toxicity	No information	available
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| Chronic aquatic toxicity

Chronic	aquatic	toxicity	/ N	o in	format	ion	availa	able	е
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| Persistence and degradability

Persistence and degradability	No information available
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| Bioaccumulative potential

Ampiciiiii tiiriyarate	Version : V2.0.0.1 Revision Date : -							
Bioaccumulative potential	No information available							
Mobility in soil								
Mobility in soil	No information available							
13 Disposal considerations								
Disposal considerations								

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

Label and Mark

Transporting Label Not applicable

IMDG-CODE

IMDG-CODE NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

IATA-DGR

IATA-DGR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

UN-ADR

UN-ADR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to IMO instruments

◆ Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

◆ Transport in bulk in accordance with the IGC Code

Not Available

Others

Precautions for transport

Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

15 Regulatory information

International chemical inventory

Component	Α	В	С	D	Е	F	G	Н	I	J	K	L	М
4-Thia-1-azabicyclo[3.2.0]	×	×	×	×	√	1	×	×	1	×	×	1	1
heptane-2-carboxylicacid,													
6-[[(2R)-2-amino-2-phenyl													

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acetyl]amino]-3,3-dimethy							
I-7-oxo-, hydrate(1:3),							
(2S,5R,6R)-							

- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZloC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
- [G] Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	A	В	С
4-Thia-1-azabicyclo[3.2.0] heptane-2-carboxylicacid, 6-[[(2R)-2-amino-2-phenyl acetyl]amino]-3,3-dimethy I-7-oxo-, hydrate(1:3), (2S,5R,6R)-	×	×	×

- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

Component	Α	В	С	D	E	F	G	Н
4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylicacid, 6-[[(2R)-2-amino-2-phenylacetyl]amino]-3,3-dimethyl-7-oxo-, hydrate(1:3), (2S,5R,6R)-	×	×	×	×	×	×	×	×

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

Note:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2025/09/30
Revision Date	-

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Reason for revision

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG- CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Pow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine dis ruptor	HCS	Hazard Communication Standard

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.