

SAFETY DATA SHEET

Section 1 - Identification of Substance or Mixture and Company

Product identify:

Product name: Ticarcillin disodium

Synonyms: (2S,5R,6R)-6-[[(2R)-Carboxy-3-thienylacetyl]amino]-3,3-

dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0] heptane-2-carboxylic acid disodium salt

Catalog number: PI-13731

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

Identified uses: Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company identification: PI Chemicals Ltd.

633 Eshan Road,

Pudong New Area, Shanghai China, 201203

Telephone number: +86-21-58953700 Fax number: +86-21-58953701 E-mail address: info@pipharm.com

Emergency telephone number

Emergency number: +86-21-58953706

Section 2 - Hazards Identification

Classification of the substance or mixture:

Regulation (EC) No 1272/2008

Skin irritation Category 2 Eye irritation Category 2

Respiratory sensitization Category 1

Specific target organ toxicity - single exposure Category 3

Label elements

Classification according to (EC) No 1272/2008





Signal word: Danger

Hazard statement(s):



H315: Causes skin irritation.

H319: Causes serious eye irritation.

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

H335: May cause respiratory irritation.

Precautionary statement(s)

P261: Avoid breathing dust.

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 or doctor/physician.

Accroding to EU Directive 67/548/EEC or 1999/45/EC.

Symbol(s): Xn Harmful

Risk phrases:

R 36/37/38: Irritating to eyes, respiratory system and skin.

R 42: May cause sensitization by inhalation.

R 43: May cause sensitization by skin contact.

Safety phrases:

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37: Wear suitable protective clothing and gloves.

HMIS classification:

Health hazard: 2
Chronic health hazard: *
Flammability: 0
Physical hazards: 0

NFPA rating:

Health hazard: 2
Fire: 0
Reactivity hazard: 0

Section 3: Composition & Information on Ingredients

 $Molecular formula: C_{15}H_{14}N_2Na_2O_6S_2$

Molecular weight: 428.39

Component		Concentration
CAS Number:	4697-14-7	80%
EC Number:		

Section 4 - First Aid Measures



Eye: Flush eyes with plenty of water for at least 15 minutes. Get medical aid if symptoms appear.

Skin: Wash skin with plenty of water at least 15 minutes while removing contaminated clothing and

shoes. Get medical aid if irritation develops and persists.

Ingestion: Wash mouth out with water. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give

oxygen. If not breathing, give artificial respiration. Get medical aid.

Section 5 – Fire-Fighting Measures

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

Special hazards arising from the substance or mixture: Carbon oxides, Nitrogen oxides, Sulphur oxides.

Advice for firefighters: Wear a self-contained breathing apparatus for fire fighting if necessary

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use proper personal protective equipment as indicated in Section 8.

Environmental precautions: Prevent further spillage or leakage when safe and capable

Methods and materials for containment and cleaning up:

Vacuum or sweep up material and keep in a suitable closed container for disposal. Do not flush with water.

Section 7 - Handling and Storage

Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin, eyes and clothes. Avoid inhalation of vapors and spray mist.

Conditions for safe storage, including any incompatibilities:

Store in a dry, well-ventilated place. Keep tightly closed.

Recommended storage temperature: 2 - 8 $^{\circ}$ C

Moisture sensitive. Keep in a dry place.

Section 8 - Exposure Controls/Personal Protection

Control parameters:

Contains no materials with occupational exposure limits.

Exposure controls:

Ensure well ventilation, good industrial hygiene and safety practice.

Personal protective equipment

Eye/Face protection:

Wear appropriate protective eyeglasses under the standards such as EN166(EU) or type ABEK(EN14387).



Skin/Body protection:

Wear appropriate protective gloves which have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it to prevent skin exposure. Dispose of contaminated gloves in accordance with applicable laws. Wash and dry hands.

Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection:

Use an approved respirator and components under appropriate government standards such as NIOSH(US) or CEN(EU) if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9- Physical and Chemical Properties

Physical state: Crystalline powder

Color: White to yellowish-white

Odour:No data availableMelting point/freezing point:No data availableInitial boiling point and boiling range:No data availableFlash point:No data availableEvaporation rate:No data availableFlammability(solid, gas):No data available

Upper/lower flammability

or explosive limits:

Vapour pressure:

No data available

No data available

No data available

Relative density:

No data available

Solubility: ca.50 g/l

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

No data available

No data available

No data available

Viscosity:

No data available

Section 10-Stability and Reactivity

Reactivity: No data available

Chemical stability: Stable under recommended temperatures and pressures.

Possibility of hazardous reactions:

Conditions to avoid:

Incompatible materials:

No data available

Moisture sensitive.

Oxidizing agents

Hazard Decomposition products: Carbon oxides, Nitrogen oxides (NOx), Sulphur

Oxides(SOx).

Section 11 - Toxicological Information



Acute toxicity:

Component: Ticarcillin disodium LD50 Oral - rat - 16000 mg/kg.

Remarks: Behavioral:Somnolence (general depressed activity). Diarrhoea

Skin corrosion/irritation: No data available Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: May cause allergic respiratory reaction.

Germ cell mutagenicity: No data available

Carcinogenicity:

Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. *Reproductive toxicity:* No data available

Specific target organ toxicity(STOT)-single exposure: Inhalation - May cause respiratory irritation.

Specific target organ toxicity (STOT)-repeated exposure: No data available

Aspiration hazard: No data available

Additional information: RTECS#: XM9410000

Section 12 – Ecological Information

Toxicity: No data available

Component: Ticarcillin disodium

Persistence and degradability:

Bioaccumulative potential:

Mobility in soil:

Results of PBT and vPvB assessment:

Other adverse effects:

No data available

No data available

Section 13 - Disposal Consideration

Waste treatment methods

Product: Dispose of in accordance with federal, state and local environmental regulations

Contaminated packaging: Dispose of as unused product

Section 14 - Transport Information

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID/ADR

Not dangerous goods

DOT(US)



Not dangerous goods

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture No data available

Chemical safety assessment: No data available

Section 16 - Other Information

SDS creation date: May 06, 2013 Update: Oct 22, 2013

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