

**ANSI Format** 



# Zosyn Galaxy

Preparation Date 30-Nov-2006	Revision Date 24-Apr-2007	<b>Revision Number</b> 1
1. PRODUCT AND COMPANY IDENTIFICATION		
Product Name Common Name Chemical Name Synonyms Product Use Classification	Zosyn Galaxy Not available Not applicable Tazocin, Pipracillin, Tazobactam Pharmaceutical product Anti-infective Agent	
Supplier	Wyeth P.O. Box 8299 Philadelphia, PA 19101 USA. Telephone: 1-610-688-4400	
Emergency Telephone Number	Chemtrec USA, Puerto Rico, Canada 1-800-424-9300 Chemtrec International 1-703-527-3887	
	2. HAZARDS IDENTIFICATION	

<b>Emergency Overview</b> This contains an active pharmaceutical ingredient that can affect body functions; handle with caution.		
Appearance Pharmaceutical frozen liquid Physical State Liquid Odor Odor		Odor Odorless
Potential Physical Hazards	None known	
Potential Health Effects Eyes Skin Inhalation Ingestion	Not available Not available Not available Hypersensitivity (anaphylactic/anaphylactoid) reactions (inc patients receiving therapy with penicillins. Individuals with a or a history of sensitivity to multiple allergens should avoid may include diarrhea, headache, constipation, nausea, inse pruritus, stool changes, fever, agitation, pain, moniliasis, hy pain, chest pain, edema, anxiety, rhinitis, and dyspnea.	a history of penicillin hypersensitivity contact. The most common effects omnia, rash, vomiting, dyspepsia,
	May cause harm to breastfed babies. Please see Patient Package Insert for further information.	
Therapeutic Target Organ(s)	None Not listed by OSHA, NTP or IARC.	
Potential Environmental Effects	See Section 12.	

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Common Name		CAS-No	Composition
Piperacillin sodium 59703-84-3 40 - 60 mg		40 - 60 mg/ml	
Tazobactam Sodium		89785-84-2	5 - 7.5 mg/ml
Inactive Ingredients		Not applicable	Remainder
	4. F	IRST AID MEASURES	
Eye Contact	In the case of medical advic	<b>,</b>	with plenty of water for 15 minutes and seek
Skin Contact	Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.		
Inhalation	Move to fresh air. Artificial respiration and/or oxygen may be necessary. If symptoms persist, call a physician.		
Ingestion	If symptoms persist, call a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.		
Aggravated Medical Conditions	Allergy to pen	icillins.	

**5. FIRE-FIGHTING MEASURES** 

Flammable Properties	Not flammable.
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Extinguishing Media

Suitable Extinguishing Media Unsuitable Extinguishing Media	Use water spray, foam, dry chemical or carbon dioxide. Do NOT use water jet.
Fire Fighting	Evacuate area and fight fire from a safe distance. Cool closed containers exposed to fire with water spray. In the event of fire and/or explosion do not breathe fumes.
Hazardous Combustion Products	Carbon oxides, nitrogen oxides.
Protective Equipment and Precautions for Firefighters	In the event of fire, wear self-contained breathing apparatus and special protective equipment for fire fighters.

# **6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions	Refer to protective measures listed in Sections 7 and 8.
Environmental Precautions	Prevent product from entering drains. Local authorities should be advised if a significant spill cannot be contained.
Methods for Containment	Not available
Methods for Cleaning up	Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Avoid formation of dust and aerosols.

### 7. HANDLING AND STORAGE

Handling

For personal protection see Section 8. Handle in accordance with good industrial hygiene and safety practice. Skin should be washed after contact. Avoid formation of dust and aerosols.

Storage

No special safety precautions required. Keep container tightly closed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Common Name</b> Piperacillin sodium Tazobactam Sodium	Exposure Guideline 3000 mcg/m <sup>3</sup> 750 mcg/m <sup>3</sup>
Engineering Controls	Apply technical measures to comply with the occupational exposure guideline. Local exhaust ventilation is needed for limited open handling or where aerosols may be generated.
Personal Protective Equipment Eye/face Protection Skin Protection Respiratory Protection	Provide eye protection based on risk assessment. Wear nitrile or latex gloves. Wear suitable protective equipment. Base respirator selection on a risk assessment.
General Hygiene Considerations	When using, do not eat, drink or smoke. General industrial hygiene practice. Wash hands before breaks and at the end of workday.
Other	Limit access to only personnel trained in the safe handling of this material. Consult a health and safety professional for specific PPE, respirator, and risk assessment guidance.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Color Odor Threshold	Pharmaceutical frozen liquid Frozen Gray Not available	Physical State Odor	Liquid Odorless
рН	Not available		
Specific Gravity Solubility Partition Coefficient (n-octanol/water) Vapor Pressure	Not available Not applicable Not available Not applicable	Water Solubility Evaporation Rate Vapor Density	Soluble Not applicable Not available
Boiling Point Flash Point Melting Point Flammability Limits in Air Explosion Limits	Not available Not applicable Not applicable <b>Upper</b> Not applicable <b>Upper</b> Not applicable	Autoignition Temperature Method Lower Not applicable Lower Not applicable	Not applicable None

	10. STABILITY AND REACTIVITY
Chemical Stability	Stable at room temperature.
Conditions to Avoid	No data available
Materials to Avoid	No materials to be especially mentioned.
Hazardous Decomposition Products	None under normal use.
Possibility of Hazardous Reactions	None under normal use.

# **11. TOXICOLOGICAL INFORMATION**

The following effects are based on the Active Pharmaceutical Ingredient.

Acute Toxicity	
Piperacillin sodium	
LD50 Oral	10 mg/kg rats 10 mg/kg mice
Acute Dermal Irritation	Not available
Primary Eye Irritation	Not available
Sensitization	Not available
Tazobactam Sodium	
LD50 Oral	>5000 mg/kg mice
Acute Dermal Irritation	Not applicable
Primary Eye Irritation	Not applicable
Sensitization	Not applicable
Multiple Dose Toxicity	
Piperacillin sodium	
No Toxicologic Effect Dose/Species/Study Length:	Multiple doses used in reproduction studies carried out in mice and rats showed no evidence of impaired fertility at half of the maximum recommended human daily dose.
Tazobactam Sodium	
No Toxicologic Effect Dose/Species/Study Length:	Not available
Maximum Tolerated Dose (MTD), Or	al
Piperacillin sodium	
Carcinogenicity	Long-term animal toxicity studies to evaluate the carcinogenic potential have not been conducted.
Genetic Toxicity	Non-mutagenic in the mouse micronucleus assay. Positive in mouse lymphoma cells assay. Negative in <i>in vivo</i> assays in mice.
Reproductive Toxicity	Studies in rats and mice have shown no evidence of impaired fertility or harm to the fetus.
Developmental Toxicity	No teratogenic effects were observed in mice and rats.
Tazobactam Sodium	

Carcinogenicity	Long-term animal toxicity studies to evaluate the carcinogenic potential have not been conducted.
Genetic Toxicity	Mutagenic potential was assessed in 5 <i>in vitro</i> and 1 <i>in vivo</i> assay; positive results occurred in one assay (forward mutation assay using mouse lymphoma cells). However, the results were negative when the combination of Pipracillin Sodium and Tazobactum Sodium was assessed in a similar battery of tests.
Reproductive Toxicity	Studies in mice and rats have shown no evidence of impaired fertility.
Developmental Toxicity	Animal reproduction studies have not been conducted.
Piperacillin sodium	
Target Organ(s) of Toxicity	No data available
Tazobactam Sodium	
Target Organ(s) of Toxicity	No data available

**12. ECOLOGICAL INFORMATION** 

The following effects are based on the Active Pharmaceutical Ingredient.

### **Chemical Fate Information**

Piperacillin sodium	
Mobility	Not available
Biodegradability	Not available
Stability in Water	Not available
Bioaccumulation	Not available
Tazobactam Sodium	
Mobility	Not available
Biodegradability	Not readily biodegradable.
Stability in Water	Stable at pH 7 and below. At pH 9, half life = 29h.
Bioaccumulation	Not available
Ecotoxicity	
Piperacillin sodium	
Microorganisms	Not available
Algae	Not available
Daphnia	Not available
Fish	Not available
Tazobactam Sodium	
Microorganisms	Minimum inhibitory concentration (MIC) > 1000 mg/l for 3 test species. Pseudomonas MIC = 250 mg/l.
Algae	Not available
Daphnia	LC50/48h/daphnia > 8.5 mg/l, NOEC = 8.5 mg/l
Fish	Not available

# **13. DISPOSAL CONSIDERATIONS**

Waste Disposal Method

Dispose of in accordance with local and national regulations.

# **14. TRANSPORT INFORMATION**

**Transport Information** 

This material is not classified as hazardous for transport.

U.S. Department of Transport (DOT) Canadian Transport of Dangerous Goods (TDG) International Civil Aviation Organization (ICAO) International Air Transport Association (IATA)	Not regulated Not regulated Not regulated Not regulated
International Maritime Dangerous Goods (IMDG)/International Maritime Organization (IMO) Transport of Dangerous Goods by Rail (RID)	0
Transport of Dangerous Goods by Road (ADR) Transportation of Dangerous Goods via Inland Waterways (ADN)	Not regulated Not regulated

### **15. REGULATORY INFORMATION**

USA

**Federal Regulations** 

### **OSHA Regulatory Status**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization	
Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

This product does not contain any HAPs.

### **State Regulations**

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

Canada Not classified

#### WHMIS Hazard Class Non-controlled

### European Union

In accordance with EC directives or respective national laws, the product does not need to be classified nor labeled.

## **16. OTHER INFORMATION**

Prepared By
Format
List of References
Revision Summary

Wyeth Department of Environment, Health & Safety This MSDS was prepared in accordance with ANSI Z400.1-2004. See Patient Package Insert for more information. Changes to Section 2 due to change in Package Insert.

#### Disclaimer:

The information, data, recommendations, and suggestions appearing in this material safety data sheet (MSDS) and/or in materials regarding our active pharmaceutical ingredients (APIs) or products are based upon tests and data believed to be reliable as of the date of publication. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS MADE WITH REGARD TO THE INFORMATION PROVIDED IN THE MSDS, REGARDING THE API, OR THE PRODUCT TO WHICH THE INFORMATION PERTAINS. Accordingly, Wyeth will not be responsible for any damages resulting from use of, or reliance upon, this information as conditions of use are beyond our control. Users are responsible for assuring the safety of their workers and safe operating conditions, and for determining whether the API or product is suitable for their particular purposes. Users shall assume all risks of their use, handling, and disposal of the API and/or product in accordance with all appropriate and applicable regulations. This information relates only to the API or product designated herein, and does not relate to its use in combination with any other API, material, product, or process. No permission is granted for the use of any API or product in a manner that might infringe on existing patents.

End of MSDS