

Material Safety Data Sheet

ANSI Format

Odor Not available

Tygacil

Preparation Date 09-Jul-2007 Revision Date 08-Dec-2008 Revision Number 5

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Tygacil

Common Name Tygacil (Tigecycline) for injection

Chemical Name Not applicable

Synonyms Tigecycline, Tigecycline for Injection, Reformulated Tygacil

Product Use Pharmaceutical product Classification 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

Emergency Overview

This is a research material that may affect body functions

Appearance Pharmaceutical powder Physical State Solid

Potential Physical Hazards Powders and solids are presumed to be combustible.

Potential Health Effects

Eyes May cause mechanical eye irritation

SkinNot availableInhalationNot availableIngestionNot available

Other The most common effects may include anaphylaxis photosensitivity pseudotumor cerebri

pancreatitis anti-anabolic action superinfection nausea vomiting diarrhea fever abdominal pain blood effects headache hypertension cough increase pain abnormal healing dizziness swelling abscess labored breathing constipation pruritus asthenia/weakness rash hypotension insomnia

sweating phlebitis and back pain

May cause harm to the unborn child. May cause harm to breastfed babies.

Please see Patient Package Insert for further information.

Therapeutic Target Organ(s) Systemic

Not listed by OSHA, NTP or IARC.

Potential Environmental Effects See Section 12

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name	CAS-No	Composition
Inactive Ingredients	Not applicable	Remainder
Tigecycline	220620-09-7	50 mg/vial
Lactose Monohydrate	64044-51-5	106 mg/vial
Hydrochloric Acid	7647-01-0	As needed to adjust pH
Sodium Hydroxide	1310-73-2	As needed to adjust pH

4. FIRST AID MEASURES

Eye Contact In case of contact with eyes, rinse immediately with plenty of water for 15 minutes and seek

medical advice

Skin Contact Wash off immediately with soap and plenty of water

Inhalation Artificial respiration and/or oxygen may be necessary

Ingestion Immediate medical attention is not required

5. FIRE-FIGHTING MEASURES

Flammable Properties Presumed to be a combustible particulate solid.

Extinguishing Media

Suitable Extinguishing Media Unsuitable Extinguishing

Media

Fire Fighting

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide Do not use a solid water stream as it may scatter and spread fire

Evacuate area and fight fire from a safe distance

Hazardous Combustion Products Hazardous Combustion Products

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Safety glasses or goggles when splash potential exists

Environmental Precautions 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

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice

Storage Keep container tightly closed

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Common Name Exposure Guideline

Tigecycline 70 mcg/m³

Engineering Controls Apply technical measures to comply with the occupational exposure guideline Local exhaust

ventilation is needed for open handling or where aerosols may be generated.

Personal Protective Equipment

Eye/face Protection Provide eye protection based on risk assessment. Skin Protection Wear nitrile or latex gloves. Wear protective garment. **Respiratory Protection** Base respirator selection on a risk assessment.

General Hygiene Considerations

When using, do not eat, drink or smoke

Limit access to only personnel trained in the safe handling of this material Consult a health and Other

safety professional for specific PPE, respirator, and risk assessment guidance

9. PHYSICAL AND CHEMICAL PROPERTIES

Pharmaceutical powder Solid **Appearance Physical State**

Orange Not available Color Odor

Odor Threshold Not available

Hq 4.8

Not applicable Not available **Specific Gravity Water Solubility** Not applicable Not applicable Solubility **Evaporation Rate** Not available Vapor Density Not applicable

Partition Coefficient (n-octanol/water)

Vapor Pressure Not applicable

Boiling Point Not applicable **Autoignition Temperature** Not applicable Method None

Flash Point Not applicable

Melting Point Not available

Flammability Limits **Upper** Not applicable

in Air **Explosion Limits Upper** Not applicable Lower Not applicable

10. STABILITY AND REACTIVITY

Lower Not applicable

Stable at room temperature. **Chemical Stability**

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

Tigecycline

LD50 Oral 160 mg/kg rats IV

124 mg/kg male mice

98 mg/kg female mice

Acute Dermal IrritationNot applicablePrimary Eye IrritationNot applicableSensitizationNot applicable

Multiple Dose Toxicity

Tigecycline

No Toxicologic Effect Effects on body weight, food consumption, blood, serum chemistry, bone discoloration (rats **Dose/Species/Study Length:** only), bone marrow, spleen, gastrointestinal tract (dogs only), and kidney were seen in

subacute toxicity studies in rats and dogs.

Maximum Tolerated Dose (MTD), Oral

Tigecycline

Carcinogenicity No studies to assess the carcinogenic potential have been performed.

Genetic Toxicity No evidence of mutagenicity was observed in a battery of *in vitro* and *in vivo* assays.

Reproductive Toxicity See Developmental Toxicity.

Developmental Toxicity Animal studies indicate no teratogenicity in rats and rabbits. There was a slight reduction in

fetal weights and an increased incidence of musculoskeletal anomalies.

Tigecycline

Target Organ(s) of Toxicity No data available

12. ECOLOGICAL INFORMATION

The following effects are based on the Active Pharmaceutical Ingredient.

Chemical Fate Information

Tigecycline

Mobility Not available

Biodegradability Inherent biodegradability = 36 % after 46 days.

Stability in Water Hydrolytically unstable at pH 2-11. **Bioaccumulation** Bioaccumulation is unlikely.

Ecotoxicity

Tigecycline

Microorganisms EC50/3h/bacteria = 140 mg/l

Algae Not available

Daphnia EC50/48h/daphnia = 2.0 mg/l NOEC = 0.39 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 International Maritime Dangerous Goods (IMDG)/International

Not regulated

Not regulated

Maritime Organization (IMO)

Transport of Dangerous Goods by Rail (RID)

Transport of Dangerous Goods by Road (ADR)

Not regulated

Not regulated

Not regulated

Not regulated

(ADN)

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

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.

Symbol(s)

Xi - Irritant.

N - Dangerous for the environment

R -phrase(s)

R36 - Irritating to eyes R52 - Harmful to aquatic organisms R63 - Possible risk of harm to the unborn child R64 - May cause harm to breastfed babies

S -phrase(s)

S13 - Keep away from food, drink and animal feedingstuffs S25 - Avoid contact with eyes S36 - Wear suitable protective clothing S37 - Wear suitable gloves S38 - In case of insufficient ventilation, wear suitable respiratory equipment S61 - Avoid release to the environment. Refer to special instructions/safety data sheets

16. OTHER INFORMATION

Prepared By Wyeth Department of Environment, Health & Safety

Format This MSDS was prepared in accordance with ANSI Z400.1-2004.

List of References See Patient Package Insert for more information.
Revision Summary Change to OEG Changes to Section 2,15

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End of MSDS