

# Safety Data Sheet

**European Format** 

# **Torisel Injection**

Preparation Date 28-Mar-2007 Revision Date 22-Jan-2010\*\*\* Revision Number 6.1\*\*\*

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product NameTorisel InjectionCommon NameNot availableChemical NameNot applicableSynonymsNot available

Product Use Pharmaceutical product

Classification Cytostatic Agent, Anti-Inflammatory Agent

Supplier Wyeth

P.O. Box 8299

Philadelphia, PA 19101 USA. Telephone: 1-610-688-4400

Contact E-Mail: pfizer-MSDS@pfizer.com

Emergency Telephone Number Chemtrec USA, Puerto Rico, Canada 1-800-424-9300

Chemtrec International 1-703-527-3887

# 2. HAZARDS IDENTIFICATION

**Emergency Overview** 

This contains an active pharmaceutical ingredient that can affect body functions; handle with caution.

Appearance Pharmaceutical LiquidPhysical StateLiquidOdor Slight Alcohol odor

Potential Physical Hazards Flammable liquid

**Potential Health Effects** 

Eyes Irritating to eyes

Skin Prolonged skin contact may defat the skin and produce dermatitis Inhalation May cause mucous membrane and upper respiratory tract irritation

Ingestion Not available

Other The most common effects may include anemia, weakness, hyperglycemia, shortness of breath,

hypophosphatemia, headache, diarrhea, vomiting, dizziness, Herpes simplex, rash,

drowsiness, taste perversion, mouth sores, nausea, irritation, difficulty breathing, symptoms of

drunkeness, sore throat and urticaria.

Possible development of immunosuppression.

May impair fertility. May cause harm to the unborn child.

Please see Patient Package Insert for further information.

Therapeutic Target Organ(s) Systemic

Ethanol listed by NTP and IARC.

Potential Environmental Effects See Section 12

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Common Name      | CAS-No      | EC No.         | Composition | Classification |
|------------------|-------------|----------------|-------------|----------------|
| Temsirolimus     | 162635-04-3 | Not Applicable | 25 mg/ml    | N/A            |
| Propylene Glycol | 57-55-6     | 200-338-0      | 56-60%      | R37, S36       |
| Ethanol          | 64-17-5     | 200-578-6      | 39.45%      | R10,R38, S37   |
| dl-a-Tocopherol  | 59-02-9     | 200-412-2      | < 1%        | R36, S39       |

# 4. FIRST AID MEASURES

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

medical advice.

**Skin Contact** Wash off with soap and plenty of water

Inhalation Artificial respiration and/or oxygen may be necessary

Ingestion Immediate medical attention is required

Other Participate in a medical surveillance program if working directly with this product

#### **5. FIRE-FIGHTING MEASURES**

Flammable Properties Flammable liquid Vapors may cause flash fire or explosion.

**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

**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.

Other Information Flammability Class (OSHA): IA

# **6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Safety glasses or goggles when splash potential exists

Local authorities should be advised if a significant spill cannot be contained **Environmental Precautions** 

**Methods for Containment** Not available

Methods for Cleaning up Take up mechanically and collect in suitable container for disposal

#### 7. HANDLING AND STORAGE

Handling Restrict access to work area. Avoid breathing vapor or mist. Avoid contact with eyes, skin,

and clothing. When handling, use appropriate personal protective equipment (see Section 8).

Wash thoroughly after handling.

Storage No special safety precautions required

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

**Temsirolimus** 

Pfizer Occupational Exposure

Band (OEB):

OEB5 (control exposure to <1ug/m<sup>3</sup>)

**Ethanol** 

Exposure Guideline: 1900 mg/m<sup>3</sup>

Engineering Controls Engineering controls should be used as the primary means to control exposures. General

room ventilations is adequate unless the porcess generates dusts mists, fumes, or vapors. Keep alborne contamination levels below the exposre limits listed above in this section.

**Personal Protective Equipment** 

Eye/face Protection

Wear safety glasses or goggles if eye contact is possible.

Skin Protection

Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations.

**Respiratory Protection** If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear

an appropriate respirator with a protection factor sufficient to control exposures to the bottom of

the OEB range.

General Hygiene

Considerations

Avoid contact with skin, eyes and clothing Conduct a task-specifc risk assessment prior to authorizing work with this product Consult a health and safety professional for specific PPE,

respirator and risk assessment guidance

Other Limit access to only personnel trained in the safe handling of this material

# 9. PHYSICAL AND CHEMICAL PROPERTIES

AppearancePharmaceutical LiquidPhysical StateLiquid

Color Clear Odor Slight Alcohol odor

Odor Threshold Not available

**pH** Not applicable

Specific Gravity0.9237g/mlWater SolubilityPoorly solubleSolubilityNot applicableEvaporation RateNot applicable

Partition Coefficient Not available Vapor Pressure Not applicable (n-octanol/water)

Boiling Point93°CAutoignition TemperatureNot availableFlash Point21.1°CMelting PointNot available

Flash Point 21.1°C Melting Point Not available
Flammability Limits in Air Upper Not available
Upper Not available
Lower Not available

#### **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

**Temsirolimus** 

LD50 Oral > 100 mg/kg rats

> 100 mg/kg mice

Acute Dermal Irritation

Primary Eye Irritation

Sensitization

> 100 mg/kg mice

No data available

No data available

No data available

**Ethanol** 

LD50 Oral 3450 mg/kg mice

7060 mg/kg rats

Acute Dermal Irritation Moderate irritation effect in rabbits.

Primary Eye Irritation Severely irritating to rabbit eyes.

Sensitization Not applicable

#### **Multiple Dose Toxicity**

**Temsirolimus** 

**No Toxicologic Effect**The acute and chronic toxicity has been evaluated in mice, rats and monkeys. No compound-related effects observed in rats and related mortality was observed in mice or rats. Compound-related effects observed in rats and

monkeys included thymic and/or lymphoid atrophy, blood effects, and changes in male reproductive organs. In rats only, the following compound-related effects were observed: blood effects, hyperglycemia, cataracts, pancreatic effects, bone marrow effects, changes in female reproductive organs, and increased numbers of pulmonary alveolar macrophages. In

monkeys only, colitis and chronic diarrhea were observed.

**Ethanol** 

No Toxicologic Effect Repeated contact can dry the skin with cracking, peeling, and itching. Repeated high exposure

**Dose/Species/Study Length:** may affect the liver and nervous system.

#### Maximum Tolerated Dose (MTD), Oral

**Temsirolimus** 

Carcinogenicity No data available

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

Reproductive Toxicity Studies were found to adversely affect male, but not female, fertility in rats causing decreased

sperm counts, sperm mobility, hypospermia, decreased reproductive organ weights, testicular

tubular degeneration, and prostate atrophy.

Developmental Toxicity Developmental studies in rats and rabbits have shown embryo/fetal mortality, decreased fetal

growth and increased incidence of intestinal protrusion through the abdomen in rabbits.

**Ethanol** 

Carcinogenicity No data available

**Genetic Toxicity** May cause genetic changes. **Reproductive Toxicity** See Developmental Toxicity.

Developmental Toxicity Repeated exposure may cause spontaneous abortions, as well as birth defects and other

developmental problems (fetal alcohol syndrome).

**Temsirolimus** 

Target Organ(s) of Toxicity No data available

**Ethanol** 

Target Organ(s) of Toxicity No data available

#### 12. ECOLOGICAL INFORMATION

Chemical Fate Information Not available

**Temsirolimus** 

MobilityNot availableBiodegradabilityNot available

Stability in Water Slowly hydrolizes at neutral pH, with an increasing rate as pH increases.

Bioaccumulation Not available

**Ecotoxicity** Not available

**Temsirolimus** 

Microorganisms EC50 > Aqueous solubility limit

Algae EC50/72h/algae = 0.063 mg/l, NOEC = 0.015 mg/l
Daphnia EC50/48h/daphnia > Aqueous solubility limit

Fish LC50/96h/Fathead minnows > Aqueous solubility limit

#### 13. DISPOSAL CONSIDERATIONS

# **Waste Disposal Method**

Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

#### 14. TRANSPORT INFORMATION

**Transport Information** This material is classified as hazardous for transport.

**Proper Shipping Name:** Flammable liquid, n.o.s. (ethanol)

Identification Number:UN 1993Hazard Class:3Packing Group:IIFlashpoint:21 °C

**Exceptions:** For small quantities packed in combination packaging [limited to inner packaging <= 1.0L\*\*\*

and outer packaging <= 30 kg (66 lb.) gross weight], the following will apply. In addition, see

"excepted quantity" provisions if applicable.\*\*\*

Note: If your commodity meets the definition of a limited quantity and is packaged for retail sale, it

may be considered a Consumer Commodity and excepted from additional requirements as

applicable.

**U.S. Department of Transport (DOT)** 

Proper Shipping Name Consumer Commodity

Hazard Class ORM-D International Air Transport Association (IATA) UN-No ID 8000

Proper Shipping Name Consumer Commodity

Hazard Class

Packing Group Not Applicable International Maritime Dangerous Goods (IMDG)

**Proper Shipping Name** Flammable liquid, n.o.s. (ethanol), Ltd. Qty

Hazard Class 3
UN-No 1993
Packing Group II
Flashpoint: 21 °C
Transport of Dangerous Goods by Road (ADR)

Proper Shipping Name Flammable liquid, n.o.s. (ethanol), Ltd. Qty

Hazard Class 3 UN-No 1993 Packing Group II

#### 15. REGULATORY INFORMATION

According to present data no classification and labeling is required according to Directives 67/548/EEC or 1999/45/EC.

# **16. OTHER INFORMATION**

Prepared By Wyeth Department of Environment, Health & Safety

Format This MSDS was prepared in accordance with Directive 2001/58/EC.

**List of References** See Patient Package Insert for more information.

Revision Summary Changes to Section 7, 8

#### Disclaimer:

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**End of MSDS**