This SDS packet was issued with item:

078393061

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078488207



Revision date: 11-Mar-2015

Version: 3.2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: Lutalyse Sterile Solution

Trade Name: Synonyms:	LUTALYSE; DINOLYTIC Dinoprost tromethamine sterile solution; Lutalyse/Dinolytic 5 mg/ml Sterile Injectable Solution; Lutalyse 5; Dinolytic 5
Chemical Family:	Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised AgainstIntended Use:Veterinary product used for estrus synchronizationRestrictions on Use:Not for human use

Details of the Supplier of the Safety Data Sheet

Zoetis Inc.Zoetis B100 Campus Drive, P.O. Box 651MercuriuFlorham Park, New Jersey 07932 (USA)1930 ZavRocky Mountain Poison and Drug Center Phone: 1-866-531-8896BelgiumProduct Support/Technical Services Phone: 1-800-366-52881930 Zav

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail: VMIPSrecords@zoetis.com Zoetis Belgium S.A. Mercuriusstraat 20 1930 Zaventem Belgium

Emergency telephone number: International CHEMTREC (24 hours): +1-703-527-3887

2. HAZARDS IDENTIFICATION

Appearance:	Clear liquid
Classification of the Substance or GHS - Classification	Mixture
Reproductive Toxicity	/: Category 1B
EU Classification: EU Indication of dang	ger: Toxic to reproduction, Category 2
EU Symbol: EU Risk Phrases:	T R61 - May cause harm to the unborn child.
Label Elements Signal Word:	Danger
Hazard Statements:	H360D - May damage the unborn child

Material Name: Lutalyse Sterile Solution Revision date: 11-Mar-2015

Precautionary Statements:

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P202 - Do not handle until all safety precautions have been read and understood P280 - Wear protective gloves/protective clothing/eye protection/face protection P308 + P313 - IF exposed or concerned: Get medical attention/advice P405 - Store locked up P501 - Dispose of contents/container in accordance with all local and national regulations

P201 - Obtain special instructions before use

Short Term: May cause eye and skin irritation (based on components) . Signs and symptoms might include redness, swelling, blurred vision or pain. Signs and symptoms might include skin rash, itching, redness or swelling. May be absorbed through the skin and cause systemic effects. May be harmful if swallowed. Indestion may result in mild dastrointestinal irritation with nausea. vomiting, or diarrhea. Individuals sensitive to this chemical or other materials in its chemical class may develop allergic reactions. Long Term: Repeat-dose studies in animals have shown a potential to cause adverse effects on testes the developing fetus. Common adverse effects include gastrointestinal disturbances nausea vomiting diarrhea **Known Clinical Effects:** Individuals sensitive to this material or other materials in its chemical class may develop allergic reactions. Hazardous Substance. Non-Dangerous Goods. **Australian Hazard Classification** (NOHSC): Note: This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU	EU Classification		%
		EINECS/ELINCS		Classification	
		List			
Dinoprost Tromethamine	38562-01-5	254-002-3	Repr.Cat.2;R61	Acute tox. 4 (H302)	0.6-0.7
			Xn;R22	Eye Irrit. 2A (H319)	
			Xi;R36	Repr. 1B (H360D)	
Benzyl Alcohol	100-51-6	202-859-9	Xn; R20/22	Acute Tox.4 (H302)	0.9-1.0
-				Acute Tox.4 (H332)	

Additional Information:

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

Your needs may vary depending upon the potential for exposure in your workplace.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of First Aid Measures Eye Contact:	Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention
Lye contact.	immediately.
Skin Contact:	Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.
Ingestion:	Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.
Inhalation:	Remove to fresh air and keep patient at rest. Seek medical attention immediately.
Most Important Symptoms and Eff	ects. Both Acute and Delaved
Symptoms and Effects of	For information on potential signs and symptoms of exposure, See Section 2 - Hazards
Exposure:	Identification and/or Section 11 - Toxicological Information.
Medical Conditions	None known
Aggravated by Exposure:	
Indication of the Immediate Medica	al Attention and Special Treatment Needed
Notes to Physician:	None
	5. FIRE-FIGHTING MEASURES
Extinguishing Media:	Extinguish fires with CO2, extinguishing powder, foam, or water.
Special Hazards Arising from the S	Substance or Mixture
Hazardous Combustion	Formation of toxic gases is possible during heating or fire.

Products:

Fire / Explosion Hazards: Not flammable.

Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

Additional Information: This product is a nonflammable aqueous solution.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Collecting:	Contain the source of spill if it is safe to do so. area thoroughly.	Collect spill with absorbent material. Clean spill	

Additional Consideration for
Large Spills:Non-essential personnel should be evacuated from affected area. Report emergency
situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

Precautions for Safe Handling

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7. HANDLIN	G AND	STORAGE
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Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Avoid accidental injection. Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions:Store as directed by product packaging.Specific end use(s):Veterinary product used for estrus synchronization

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

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

Dinoprost Tromethamine		
Zoetis OEL TWA 8-hr	1 µg/m³	
Benzyl Alcohol		
Bulgaria OEL - TWA	5.0 mg/m ³	
Czech Republic OEL - TWA	40 mg/m ³	
Finland OEL - TWA	10 ppm	
	45 mg/m ³	
Latvia OEL - TWA	5 mg/m ³	
Lithuania OEL - TWA	5 mg/m ³	
Poland OEL - TWA	240 mg/m ³	
Exposure Controls		
Engineering Controls:	Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne contamination levels below the exposure limits listed above in this section.	
Personal Protective	Refer to applicable national standards and regulations in the selection and use of personal	
Equipment:	protective equipment (PPE).	
Hands:	Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.	
Eyes:	Wear safety glasses or goggles if eye contact is possible.	
Skin:	Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.	
Respiratory protection:	If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Color:
Odor:	No data available.	Odor Th
Molecular Formula:	Mixture	Molecul
Solvent Solubility:	No data available	
Water Solubility:	No data available	
Solubility:	Soluble: Water	
pH:	7.8-8.2	
Melting/Freezing Point (°C):	0	

or: or Threshold: ecular Weight: Clear No data available. Mixture

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°C): No data available. Partition Coefficient: (Method, pH, Endpoint, Value) **Dinoprost Tromethamine** Predicted 7.4 Log D -0.46 **Decomposition Temperature (°C):**

No data available.

Evaporation Rate (Gram/s):	No data available
Vapor Pressure (kPa):	No data available
Vapor Density (g/ml):	No data available
Relative Density:	No data available
Specific Gravity:	0.996-1.004
Viscosity:	No data available

Flammablity:

Autoignition Temperature (Solid) (°C): Flammability (Solids): Flash Point (Liquid) (°C): Upper Explosive Limits (Liquid) (% by Vol.): Lower Explosive Limits (Liquid) (% by Vol.): No data available No data available No data available No data available No data available

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions Oxidizing Properties: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products:

No data available Stable under normal conditions of use.

No data available Fine particles (such as dust and mists) may fuel fires/explosions. As a precautionary measure, keep away from strong oxidizers No data available

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects **General Information:**

Toxicological properties of the formulation have not been investigated. The information in this section describes the potential hazards of the individual ingredients and the formulation. Routes of exposure: eye contact, skin contact

Acute Toxicity: (Species, Route, End Point, Dose)

Dinoprost Tromethamine

665 mg/kg Rat Oral LD 50 LD 50 101mg/kg Rat Para-periosteal Mouse Oral LD 50 711mg/kg Mouse Intravenous LD 50 331mg/kg

Benzyl Alcohol

LD50 Rat Oral 1230 mg/kg Para-periosteal LD50 Rat 53mg/kg Inhalation LC50 >4.178mg/L Rat

Irritation / Sensitization: (Study Type, Species, Severity)

11. TOXICOLOGICAL INFORMATION

Dinoprost Tromethamine

Eye Irritation Rabbit Severe Skin Irritation Rat No effect Skin Sensitization - GPMT Guinea Pig Negative

Benzyl Alcohol

Eye Irritation Rabbit Severe Skin Irritation Rabbit Minimal Skin Irritation Guinea Pig Moderate

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Dinoprost Tromethamine 6 Month(s) Rat Intraperitoneal 32.8 mg/kg LOAEL Male reproductive system

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Dinoprost Tromethamine

Reproductive & Fertility Rat 1-3 mg/kg/day NOAEL Fertility Embryo / Fetal Development Subcutaneous 0.5 mg/kg/day LOAEL Teratogenic Rat Embryo / Fetal Development Rat 1-3 mg/kg/day LOAEL Fetotoxicity

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Dinoprost Tromethamine Bacterial Mutagenicity (Ames) Salmonella Negative Direct DNA Interaction Negative

Carcinogen Status:

None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

Product Level Toxicity Data Acute Toxicity Estimate (ATE), oral

>5000 mg/kg

12. ECOLOGICAL INFORMATION

Environmental Overview:	Environmental properties of the formulation have not been investigated. The following information is available for the individual ingredients. Releases to the environment should be avoided.
Toxicity:	
Aquatic Toxicity: (Species, Method,	End Point, Duration, Result)
Benzyl Alcohol Pimephales promelas (Fathead Minnor Daphnia magna (Water Flea) OECD Pseudokirchneriella subcapitata (Gree Benzyl Alcohol Daphnia magna (Water Flea) OECD	D EC50 48 Hours 230 mg/L n Alga) OECD EC50 72 Hours 500 mg/L
Persistence and Degradability: Benzyl Alcohol	No data available
OECD Activated sludge Ready	92% After 14 Day(s) Ready
Bio-accumulative Potential:	No data available
Dinoprost Tromethamine Predicted 7.4 Log D -0.46	
Mobility in Soil:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:Should not be released into the environment. 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

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications WHMIS hazard class: Class D, Division 2, Subdivision A This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.



Dinoprost Tromethamine	Not Listed
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Australia (AICS):	Present
EU EINECS/ELINCS List	254-002-3
Benzyl Alcohol	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	202-859-9

16. OTHER INFORMATION

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed Acute toxicity, inhalation-Cat.4; H332 - Harmful if inhaled Serious eye damage/eye irritation-Cat.2A; H319 - Causes serious eye irritation Reproductive toxicity-Cat.1B; H360D - May damage the unborn child

Toxic to Reproduction: Category 2 Xn - Harmful Xi - Irritant

R22 - Harmful if swallowed. R36 - Irritating to eyes. R61 - May cause harm to the unborn child. R20/22 - Harmful by inhalation and if swallowed.

Data Sources:

The data contained in this SDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.

Material Name: Lutalyse Sterile Solution Revision date: 11-Mar-2015

Reasons for Revision:	Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. Updated Section 2 - Hazard Identification. Updated Section 5 - Fire Fighting Measures. Updated Section 11 - Toxicology Information.
Prepared by:	Toxicology and Hazard Communication Zoetis Global Risk Management

Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet