

Revision date: 12-Sep-2013

Version: 2.0

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

Product Identifier

Material Name: Prednisolone Sodium Succinate Sterile Powder

Trade Name: Chemical Family: Solu-delta-cortef (R) Sterile Powder Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised AgainstIntended Use:Veterinary product used as anti-inflammatoryRestrictions on Use:Not for human use

Details of the Supplier of the Safety Data Sheet

Zoetis Inc. 100 Campus Drive, P.O. Box 651 Florham Park, New Jersey 07932 (USA) Rocky Mountain Poison Control Center Phone: 1-866-531-8896 Product Support/Technical Services Phone: 1-800-366-5288

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: Powder Classification of the Substance or Mixture GHS - Classification

Reproductive Toxicity: Category 2

EU Classification:

EU Indication of danger: Harmful

EU Symbol: Xn EU Risk Phrases:

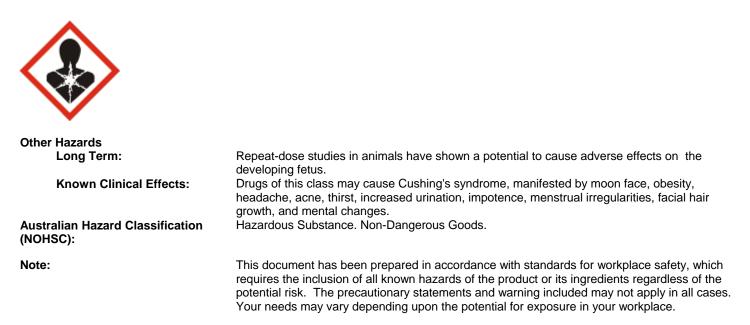
R63 - Possible risk of harm to the unborn child.

Label Elements

Signal Word:	Warning
Hazard Statements:	H361d - Suspected of damaging the unborn child
Precautionary Statements:	 P201 - Obtain special instructions before use 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

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Prednisolone sodium succinate	1715-33-9	216-995-1	Repr. 3;R63	Repr 2 (H361d)	1-5
Tyloxapol	25301-02-4	Not Listed	Not Listed	Not Listed	*
Chlorobutanol	57-15-8	200-317-6	Xn;R22	Acute Tox 4(H302)	*

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Sodium phosphate, monobasic	7558-80-7	231-449-2	Not Listed	Not Listed	*
Sodium phosphate, dibasic	7558-79-4	231-448-7	Not Listed	Not Listed	*
Lactose hydrous	64044-51-5	Not Listed	Not Listed	Not Listed	*

Additional Information:

* Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

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 immediately.
Skin Contact:	Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.

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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 Effe Symptoms and Effects of Exposure: Medical Conditions Aggravated by Exposure:	ects, Both Acute and Delayed For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information. None known
Indication of the Immediate Medica Notes to Physician:	I Attention and Special Treatment Needed None
	5. FIRE-FIGHTING MEASURES
Extinguishing Media:	Extinguish fires with CO2, extinguishing powder, foam, or water.
Special Hazards Arising from the S Hazardous Combustion Products:	ubstance or Mixture Formation of toxic gases is possible during heating or fire. May include oxides of carbon and products of chlorine
Fire / Explosion Hazards:	Fine particles (such as dust and mists) may fuel fires/explosions.
Advice for Fire-Fighters During all fire fighting activities	, wear appropriate protective equipment, including self-contained breathing apparatus.
6	. ACCIDENTAL RELEASE MEASURES
	quipment and Emergency Procedures should wear appropriate personal protective equipment (see Section 8). Minimize exposure

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. Collect spilled material by a method that
controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of
dry solids. Clean spill area thoroughly.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

Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). 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 at controlled room temperature. Protect from light. Keep out of reach of children.Storage Temperature:15-30°C

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Specific	end	use	(s):	
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No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters Refer to available public information for specific member state Occupational Exposure Limits. Prednisolone sodium succinate Zoetis OEL TWA 8-hr 4µg/m³, Skin **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 protective equipment (PPE). Equipment: Hands: Impervious, disposable gloves (double suggested) are recommended if skin contact with drug product is possible and for bulk processing operations. Eves: Wear safety glasses or goggles if eye contact is possible. Impervious disposable protective clothing is recommended if skin contact with drug product is Skin: possible and for bulk processing operations. If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate **Respiratory protection:** respirator with a protection factor sufficient to control exposures to below the OEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Odor: Molecular Formula:	Powder No data available. Mixture	Color: Odor Threshold: Molecular Weight:	No data available. No data available. Mixture
Solvent Solubility: Water Solubility: Solubility: pH: Melting/Freezing Point (°C): Boiling Point (°C): Partition Coefficient: (Method, pH, E No data available Decomposition Temperature (°C): Evaporation Rate (Gram/s): Vapor Pressure (kPa): Vapor Density (g/ml): Relative Density: Viscosity:	No data available No data available Soluble: Water No data available. No data available. Endpoint, Value) No data available. No data available No data available		
Flammablity: Autoignition Temperature (So Flammability (Solids): Flash Point (Liquid) (°C): Upper Explosive Limits (Liqui Lower Explosive Limits (Liqui	d) (% by Vol.):	No data available No data available No data available No data available No data available	

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10. STABILITY AND REACTIVITY

Stable under normal conditions of use.

No data available

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

None 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:

The information included in this section describes the potential hazards of various forms of the active ingredient. The remaining information describes the potential hazards of the individual ingredients.

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

Prednisolone sodium succinate

Rat Intravenous LD50 770 mg/kg Mouse IV LD50 1125mg/kg

Sodium phosphate, monobasic

Rat Oral LD 50 8290 mg/kg

Sodium phosphate, dibasic

Rat Oral LD 50 17 g/kg

Chlorobutanol

Rat Oral LD50 510 mg/kg

Prednisolone (anhydrous)

MouseOralLD501680mg/kgRatSub-tenon injection (eye)LD50767mg/kgMouseIntraperitonealLD 5065mg/kg

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

Sodium phosphate, dibasic

Eye IrritationRabbitMildSkin IrritationRabbitMild

Chlorobutanol

Eye Irritation Rabbit Mild Skin Irritation Rabbit Mild

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

Prednisolone (anhydrous) 4 Day(s) Rat Oral10.1 mg/kg LOAEL None identified

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11. TOXICOLOGICAL INFORMATION
6 Week(s) Dog Oral 2.5 mg/kg/day LOAEL Adrenal gland, Liver
24 Week(s) Guinea Pig Oral 1 mg/kg/day LOAEL Bone, Blood
Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))
Prednisolone (anhydrous)
Embryo / Fetal Development Mouse No route specified 0.5 mg/day LOEL Teratogenic
Embryo / Fetal Development Rat Subcutaneous 2.5 mg/kg LOEL Teratogenic
Reproductive & Fertility Rat Oral 250 - 600 mg/kg/day LOAEL Teratogenic
Genetic Toxicity: (Study Type, Cell Type/Organism, Result)
Chlorobutanol
In Vitro Bacterial Mutagenicity (Ames) Salmonella Positive
In Vitro Micronucleus Mouse Bone Marrow Negative
Prednisolone (anhydrous)
In Vivo Mammalian Cell Mutagenicity Mouse Lymphoma Negative
Sister Chromatid Exchange Human Lymphocytes Negative
Cytogenetics Human Lymphocytes Negative
Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.
12. ECOLOGICAL INFORMATION

Environmental Overview:	Environmental properties have not been investigated. Releases to the environment should be avoided.
Toxicity:	No data available
Persistence and Degradability:	No data available
Bio-accumulative Potential:	No data available
Mobility in Soil:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: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.

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Canada - WHMIS: Classifications

Class D, Division 2, Subdivision A

WHMIS hazard class:

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

Prednisolone sodium succinate	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Australia (AICS):	Present
EU EINECS/ELINCS List	216-995-1
Tyloxapol	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Australia (AICS):	Present
EU EINECS/ELINCS List	Not Listed
Sodium phosphate, monobasic	
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	231-449-2
Sodium phosphate, dibasic	
CERCLA/SARA 313 Emission reporting	Not Listed
CERCLA/SARA Hazardous Substances	5000 lb
and their Reportable Quantities:	2270 kg
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present

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EU EINECS/ELINCS List	TORY INFORMATION 231-448-7	
actose hydrous		
CERCLA/SARA 313 Emission reporting	Not Listed	
California Proposition 65	Not Listed	
Australia (AICS):	Present	
EU EINECS/ELINCS List	Not Listed	
hlorobutanol		
CERCLA/SARA 313 Emission reporting	Not Listed	
California Proposition 65	Not Listed	
Inventory - United States TSCA - Sect. 8(b)	Present	
Australia (AICS):	Present	
Standard for the Uniform Scheduling	Schedule 2	
for Drugs and Poisons:	Schedule 3	
EU EINECS/ELINCS List	200-317-6	

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

Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed Reproductive toxicity-Cat.2; H361d - Suspected of damaging the unborn child

Toxic to Reproduction: Category 3 Xn - Harmful

 R22 - Harmful if swallowed.

 R63 - Possible risk of harm to the unborn child.

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

 Reasons for Revision:
 Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. Updated Section 2 - Hazard Identification. Updated Section 4 - First Aid Measures. Updated Section 7 - Handling and Storage.

 Prepared by:
 Toxicology and Hazard Communication

 Zoetis Global Risk Management
 Zoetis Global Risk Management

Zoetis Inc. believes that the information contained in this Material 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

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