

Revision date: 10-Feb-2015

Version: 2.1

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

Product Identifier

Material Name: Methylprednisolone Tablets (4 mg)

Trade Name: Synonyms: Chemical Family: MEDRONE V, MEDROL, MODERIN MODERIN TABLETS 4 mg Corticosteroid hormone

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Intended Use: Veterinary product Restrictions 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: Animal Health Division (office hours): +44 (0)1737 331333

2. HAZARDS IDENTIFICATION

	of the Substance or M Classification	White tablets lixture	
	Reproductive Toxicity: Category 1A Specific target organ systemic toxicity (repeated exposure): Category 2		
EU Cla	ssification:		
	EU Indication of dange	r: Harmful Toxic to reproduction: Category 1	
	EU Symbol: EU Risk Phrases:	T R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed. R61 - May cause harm to the unborn child.	
Label Elemen	its		
Signal Hazard	Word: Statements:	Danger H360 - May damage fertility or the unborn child H373 - May cause damage to organs through prolonged or repeated exposure (blood and blood forming organs , reproductive system , adrenal gland)	

Precautionary Statements: P2

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
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P308 + P313 IF exposed or concerned: Get medical attention/advice
- P314 Get medical attention/advice if you feel unwell
- P405 Store locked up
- P501 Dispose of contents/container in accordance with all local and national regulations

potential risk. The precautionary statements and warning included may not apply in all cases.

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



Other Hazards Short Term: Long Term:	May be absorbed through the skin and cause systemic effects. Repeat-dose studies in animals have shown a potential to cause adverse effects on blood and blood forming organs. May cause allergic reactions in susceptible individuals following repeated contact with this material. Repeat-dose studies in animals have shown a potential to cause adverse effects on the hematological and reproductive systems. may have the potential to produce effects on the developing fetus.
Known Clinical Effects:	Adverse clinical reactions include the development of hypersensitivity and/or irritation leading to rashes, itching, and burning. Clinical use has resulted in hormonal alterations.
Australian Hazard Classification (NOHSC):	Hazardous Substance. Non-Dangerous Goods.
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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU	EU Classification	GHS	%
		EINECS/ELINCS		Classification	
		List			
Methylprednisolone	83-43-2	201-476-4	Xn;R48/22	Repr. 1A (H360)	4 mg
			Repr.Cat.1;R61	STOT RE 2 (H373)	
Corn Starch	9005-25-8	232-679-6	Not Listed	Not Listed	<10
Sucrose	57-50-1	200-334-9	Not Listed	Not Listed	<5
Calcium stearate	1592-23-0	216-472-8	Not Listed	Not Listed	<1
Mineral oil	8012-95-1	232-384-2	Not Listed	Not Listed	<1

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Sorbic acid	110-44-1	203-768-7	Not Listed	Not Listed	*
Lactose	63-42-3	200-559-2	Not Listed	Not Listed	*

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Additional Information:

* Proprietary

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.

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 eye(s) immediately with plenty of water. If irritation occurs or persists, get medical attention. Skin Contact: Wash skin with soap and water. If irritation occurs or persists, get 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 Effects, Both Acute and Delayed Symptoms and Effects of For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information. Exposure: **Medical Conditions** None known

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

Aggravated by Exposure:

5. FIRE-FIGHTING MEASURES

Extinguishing Media:

Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

Hazardous CombustionFormation of toxic gases is possible during heating or fire.Products:

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

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 /	Contain the source of spill if it is safe to do so. Collect spilled material by a method that
Collecting:	controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of
-	dry solids. Clean spill area thoroughly.

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Additional Consideration for No. Large Spills: si

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

When handling, use proper personal protective equipment as specified in Section 8. Avoid contact with eyes, skin and clothing. If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Prevent environmental releases.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions:Store as directed by product packaging.Specific end use(s):No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

4 µg/m³, Skin

Control Parameters

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

Methylprednisolone	
Zoetis OEL TWA	8-hr

Corn Starch	
ACGIH Threshold Limit Value (TWA)	10 mg/m ³
Australia TWA	10 mg/m ³
Belgium OEL - TWA	10 mg/m ³
Bulgaria OEL - TWA	10.0 mg/m ³
Czech Republic OEL - TWA	4.0 mg/m^3
Greece OEL - TWA	10 mg/m ³
••••••••	5 mg/m ³
Ireland OEL - TWAs	10 mg/m ³
	4 mg/m ³
OSHA - Final PELS - TWAs:	15 mg/m ³
Portugal OEL - TWA	10 mg/m ³
Slovakia OEL - TWA	4 mg/m ³
Spain OEL - TWA	10 mg/m ³
Switzerland OEL -TWAs	3 mg/m ³
Sucrose	
ACGIH Threshold Limit Value (TWA)	10 mg/m ³
Australia TWA	10 mg/m ³
Belgium OEL - TWA	10 mg/m ³
Bulgaria OEL - TWA	10.0 mg/m ³
Estonia OEL - TWA	10 mg/m ³
France OEL - TWA	10 mg/m ³
Ireland OEL - TWAs	10 mg/m ³
Latvia OEL - TWA	5 mg/m ³
Lithuania OEL - TWA	10 mg/m ³
OSHA - Final PELS - TWAs:	15 mg/m ³
Portugal OEL - TWA	10 mg/m ³
Slovakia OEL - TWA	6 mg/m ³
Spain OEL - TWA	10 mg/m ³

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Calcium stearate 10 mg/m³ ACGIH Threshold Limit Value (TWA) 5 mg/m³ Lithuania OEL - TWA Sweden OEL - TWAs 5 mg/m^3 Mineral oil **ACGIH Threshold Limit Value (TWA)** 5 mg/m³ 5 mg/m^3 **Australia TWA Belgium OEL - TWA** 5 mg/m³ **Bulgaria OEL - TWA** 5.0 mg/m³ 5 mg/m^3 **Czech Republic OEL - TWA Denmark OEL - TWA** 1 mg/m³ **Finland OEL - TWA** 5 mg/m^3 **Greece OEL - TWA** 5 mg/m^3 Lithuania OEL - TWA 1 mg/m^3 **Netherlands OEL - TWA** 5 mg/m^3 5 mg/m^3 Vietnam OEL - TWAs **OSHA - Final PELS - TWAs:** 5 mg/m^3 Poland OEL - TWA 5 mg/m³ Portugal OEL - TWA 5 mg/m^3 5 mg/m³ **Romania OEL - TWA** 5 ppm Slovakia OEL - TWA 1 mg/m^3 5 mg/m³ 5 mg/m³ Spain OEL - TWA Sweden OEL - TWAs 1 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. Refer to applicable national standards and regulations in the selection and use of personal **Personal Protective** Equipment: protective equipment (PPE). Wear impervious gloves if skin contact is possible. Hands: Eyes: Safety glasses or goggles Skin: Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas. 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:

Solvent Solubility: Water Solubility: pH: Melting/Freezing Point (°C): Tablets No data available. Mixture

No data available Insoluble No data available. No data available Color: Odor Threshold: Molecular Weight: White No data available. Mixture

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9. PHYSICAL AND CHEMICAL PROPERTIES		
Boiling Point (°C):	No data available.	
Partition Coefficient: (Method, pH, E	Endpoint, Value)	
No data available		
Methylprednisolone		
Predicted 7.4 Log D 1.99		
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	
Viscosity:	No data available	
Flammablity:		
Autoignition Temperature (So	vlid) (°C): No data available	
Flammability (Solids):	No data available	
Flash Point (Liquid) (°C):	No data available	
Upper Explosive Limits (Liqui		
Lower Explosive Limits (Liqu	id) (% by Vol.): 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 Thermal decomposition products may include carbon monoxide, carbon dioxide and other toxic vapors.

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)

Sorbic acid

Rat Oral LD50 7360 mg/kg Mouse Oral LD50 3200mg/kg

Sucrose

Rat Oral LD50 29.7 g/kg

Methylprednisolone

RatOralLD 50> 2000mg/kgMouseOralLD 50450mg/kgRatIntraperitonealLD 501000mg/kg

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11. TOXICOLOGICAL INFORMATION

MouseIntraperitonealLD 501409mg/kgRatSubcutaneousLD 50>3000mg/kgAcute Toxicity Comments:A greate

A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable at the highest dose used in the test.

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

Mineral oil

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Mild

Methylprednisolone

Skin IrritationRabbitNo effectEye IrritationRabbitNo effectSkin Sensitization - GPMTGuinea PigNo effect

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

Methylprednisolone

42 Day(s)	Dog	Oral 167 µg/k	g/day LOAEL	Adrenal g	land	
6 Week(s)	Rat	Subcutaneous	500 µg/kg/day	LOAEL	None identified	
14 Week(s)	Rat	Subcutaneous	0.4 µg/kg/day	NOAEL	Blood forming organs	, Adrenal gland
52 Week(s)	Rat	Subcutaneous	4 µg/kg/day	NOAEL	Blood forming organs	Adrenal gland

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

Methylprednisolone

Reproductive & Fertility Rat Subcutaneous 0.004 mg/kg/day NOAEL Paternal toxicity Reproductive & Fertility Rat Subcutaneous 0.02 mg/kg/day LOAEL Fetotoxicity Embryo / Fetal Development Rat Subcutaneous 1.0 mg/kg/day LOAEL Fetotoxicity, Teratogenic Embryo / Fetal Development Mouse Intramuscular 330 mg/kg/day LOAEL Teratogenic 0.1 mg/kg/day Teratogenic Embryo / Fetal Development Rabbit Intramuscular LOAEL

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

Sucrose

Bacterial Mutagenicity (Ames) Salmonella Negative

Methylprednisolone

Bacterial Mutagenicity (Ames)SalmonellaNegativeUnscheduled DNA SynthesisRat HepatocyteNegativeMammalian Cell MutagenicityChinese Hamster Ovary (CHO) cellsNegativeDirect DNA InteractionNegative

Carcinogen Status:

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

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12. ECOLOGICAL INFORMATION

Environmental Overview:	Environmental properties of the formulation have not been investigated. Releases to the environment should be avoided.
Toxicity:	No data available
Persistence and Degradability:	No data available
Bio-accumulative Potential: Methylprednisolone Predicted 7.4 Log D 1.99	No data available
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.



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15. REGULATORY INFORMATION

Methylprednisolone	NI 711 7 1
CERCLA/SARA 313 Emission reporting California Proposition 65	Not Listed Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
Standard for the Uniform Scheduling	Schedule 4
for Drugs and Poisons:	
EU EINECS/ELINCS List	201-476-4
Corn Starch	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
REACH - Annex IV - Exemptions from the	Present
obligations of Register:	
EU EINECS/ELINCS List	232-679-6
Sucrose	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
REACH - Annex IV - Exemptions from the	Present
obligations of Register:	200 224 0
EU EINECS/ELINCS List	200-334-9
Calcium stearate	
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	216-472-8
Mineral oil	
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	232-384-2
Sorbic acid	
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	203-768-7
Lactose	
CERCLA/SARA 313 Emission reporting	Not Listed

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California Proposition 65 Inventory - United States TSCA - Sect. 8(b) Australia (AICS): REACH - Annex IV - Exemptions from the obligations of Register: EU EINECS/ELINCS List Not Listed Present Present Present

200-559-2

16. OTHER INFORMATION

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

Reproductive toxicity-Cat.1A; H360 - May damage fertility or the unborn child Specific target organ toxicity, repeated exposure-Cat.1; H373 - May cause damage to organs through prolonged or repeated exposure

Toxic to reproduction: Category 1 Xn - Harmful

R61 - May cause harm to the unborn child.

R48/22 - Harmful: danger of serious damage to health by prolonged exposure 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.
Reasons for Revision:	Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 7 - Handling and Storage. 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