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

**Product Identifier** 

Material Name: FarrowSure GOLD B

FarrowSure GOLD B **Trade Name:** 

**Chemical Family:** Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Veterinary product used as Veterinary Vaccine Intended Use:

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 and Drug Center Phone: 1-866-531-8896 Belgium

Product Support/Technical Services Phone: 1-800-366-5288

**Emergency telephone number: Emergency telephone number:** 

CHEMTREC (24 hours): 1-800-424-9300

**Contact E-Mail:** VMIPSrecords@zoetis.com International CHEMTREC (24 hours): +1-703-527-3887

# 2. HAZARDS IDENTIFICATION

Zoetis Belgium S.A.

Mercuriusstraat 20

1930 Zaventem

Appearance: Liquid solution

Classification of the Substance or Mixture

**GHS - Classification** Not classified as hazardous

**EU Classification:** 

EU Indication of danger: Not classified

**Label Elements** 

Not Classified Signal Word:

**Hazard Statements:** Non-hazardous in accordance with international standards for workplace safety.

Other Hazards

May cause eye irritation, May cause skin irritation. (based on components) In the event of **Short Term:** 

accidental injection, an allergic reaction may occur. Signs and symptoms might include skin rash, itching, redness or swelling. Respiratory reactions may be characterized by rhinitis, sneezing, scratchy throat, oral mucosal edema, laryngeal mucosal edema, coughing, shortness of breath, wheezing, and chest pain. Asthma like reactions occur with acute exposures in sensitized patients. If an allergic reaction occurs, the worker should be removed

to the nearest emergency room and the appropriate therapy instituted.

**Australian Hazard Classification** 

(NOHSC):

Non-Hazardous Substance. Non-Dangerous Goods.

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Note:

This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Hazardous**

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Aluminum hydroxide	21645-51-2	244-492-7	Not Listed	Not Listed	2
Formaldehyde	50-00-0	200-001-8	T; R23/24/25 C; R34 Carc.Cat.3; R40 R43	Acute Tox. 3 (H301) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Carc. 1A (H350) Acute Tox. 3 (H331)	< 0.1
Merthiolate (as mercury)	54-64-8	200-210-4	T+; R26/27/28 R33 N; R50/53	Acute Tox. 2 (H330) Acute Tox. 1 (H310) Acute Tox. 2 (H300) STOT RE 2 (H373) Aq. Acute 1 (H400) Aq. Chronic 1 (H410)	##
Gentamicin	1403-66-3	215-765-8	Not Listed	Not Listed	##

Ingredient	CAS Number	EU	EU Classification	GHS	%
		EINECS/ELINCS		Classification	
		List			
Porcine Parvovirus	NOT ASSIGNED	Not Listed	Not Listed	Not Listed	*
Erysipelothrix rhusiopathiae	NOT ASSIGNED	Not Listed	Not Listed	Not Listed	*
Leptospira hardjo	NOT ASSIGNED	Not Listed	Not Listed	Not Listed	*
Leptospira grippotyphosa	NOT ASSIGNED	Not Listed	Not Listed	Not Listed	*
Leptospira pomona	NOT ASSIGNED	Not Listed	Not Listed	Not Listed	*
Leptospira bratislava	NOT ASSIGNED	Not Listed	Not Listed	Not Listed	*
Leptospira canicola	NOT ASSIGNED	Not Listed	Not Listed	Not Listed	*
Leptospira icterohaemorrhagiae	NOT ASSIGNED	Not Listed	Not Listed	Not Listed	*
Amphigen base	NOT ASSIGNED	Not Listed	Not Listed	Not Listed	*
Water, purified	7732-18-5	231-791-2	Not Listed	Not Listed	>90%

Additional Information:

\* Proprietary ## Trace

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.

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### 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** 

**Eve Contact:** Immediately flush eyes with water for at least 15 minutes. 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: Get medical attention. Do not induce vomiting unless directed by medical personnel. Never

give anything by mouth to an unconscious person.

Inhalation: Get medical attention immediately. Remove to fresh air. If not breathing, give artificial

respiration.

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

Aggravated by Exposure:

Indication of the Immediate Medical 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 Substance or Mixture

**Hazardous Combustion** 

**Products:** 

Formation of toxic gases is possible during heating or fire.

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

**Advice for Fire-Fighters** 

Wear approved positive pressure, self-contained breathing apparatus and full protective turn out gear. Dike and collect water

used to fight fire.

# 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 spill with absorbent material. Clean spill

Collecting: area thoroughly.

**Additional Consideration for** 

Non-essential personnel should be evacuated from affected area. Report emergency

Large Spills: situations immediately. Clean up operations should only be undertaken by trained personnel.

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# 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

When handling, use appropriate personal protective equipment (see Section 8). Use with adequate ventilation. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Prevent environmental releases. Keep away from heat, sparks, and flame. Avoid accidental injection.

## Conditions for Safe Storage, Including any Incompatibilities

**Storage Conditions:** Store under refrigeration in closed container.

**Storage Temperature:** 

**Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers

No data available Specific end use(s):

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control Parameters**

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

### **Aluminum hydroxide**

ACGIH Threshold Limit Value (TWA)	1 mg/m³
Austria OEL - MAKs	5 mg/m <sup>3</sup>
Germany (DFG) - MAK	4 mg/m <sup>3</sup>
	1.5 mg/m <sup>3</sup>
Latvia OEL - TWA	6 mg/m <sup>3</sup>
Lithuania OEL - TWA	6 mg/m <sup>3</sup>
Poland OEL - TWA	2.5 mg/m <sup>3</sup>
	1.2 mg/m <sup>3</sup>
Slovakia OEL - TWA	1.5 mg/m <sup>3</sup>
Switzerland OEL -TWAs	3 mg/m <sup>3</sup>

## **Formaldehyde**

0.3 ppm Sensitizer
2 ppm
2.5 mg/m <sup>3</sup>
1 ppm
1.2 mg/m <sup>3</sup>
0.5 ppm
0.6 mg/m <sup>3</sup>
1.0 mg/m <sup>3</sup>
0.5 mg/m <sup>3</sup>
0.5 ppm
0.6 mg/m <sup>3</sup>
0.3 ppm
0.37 mg/m <sup>3</sup>
0.5 ppm
0.3 ppm

0.37 mg/m<sup>3</sup> no irritation should occur during mixed exposure

**Greece OEL - TWA** 2 ppm  $2.5 \text{ mg/m}^3$ **Hungary OEL - TWA**  $0.6 \text{ mg/m}^{3}$ Ireland OEL - TWAs 2 ppm

2.5 mg/m<sup>3</sup>

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Japan - OELs - Ceilings 0.2 ppm 0.24 mg/m<sup>3</sup> 0.5 ma/m<sup>3</sup> Latvia OEL - TWA Lithuania OEL - TWA 0.5 ppm 0.6 mg/m<sup>3</sup> **Netherlands OEL - TWA** 0.15 mg/m<sup>3</sup> 0.5 mg/m<sup>3</sup> **Vietnam OEL - TWAs OSHA - Final PELS - TWAs:** 0.75 ppm **OSHA - Specifically Regulated Chemicals** 2 ppm 0.5 ppm 0.75 ppm **Poland OEL - TWA** 0.5 mg/m<sup>3</sup> **Romania OEL - TWA** 1 ppm 1.20 mg/m<sup>3</sup> Slovakia OEL - TWA 0.3 ppm 0.37 mg/m<sup>3</sup> Slovenia OEL - TWA 0.5 ppm 0.62 mg/m<sup>3</sup> Sweden OEL - TWAs 0.3 ppm 0.37 mg/m<sup>3</sup> **Switzerland OEL -TWAs** 0.3 ppm 0.37 mg/m<sup>3</sup>

Gentamicin

**Bulgaria OEL - TWA** 0.1 mg/m<sup>3</sup>

The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

Gentamicin

**Zoetis OEB** OEB 2 (control exposure to the range of 100ug/m<sup>3</sup> to < 1000ug/m<sup>3</sup>)

**Exposure Controls** 

**Engineering Controls:** Engineering controls should be used as the primary means to control exposures. Keep air

contamination levels below the exposure limits or within the OEB range listed above in this section. General room ventilation is adequate unless the process generates dust, mist or

fumes.

**Personal Protective** 

Refer to applicable national standards and regulations in the selection and use of personal **Equipment:** 

protective equipment (PPE).

Wear impervious gloves if skin contact is possible. Hands:

Eves: Safety glasses or goggles

Skin: Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and

laboratory areas.

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. 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.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:LiquidColor:Cloudy whiteOdor:No data available.Odor Threshold:No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility: No data available Water Solubility: No data available

Solubility: Soluble: Water (based on components)

pH: 7.0 +/- 1.5
Melting/Freezing Point (°C): No data available

Boiling Point (°C): >100

Partition Coefficient: (Method, pH, Endpoint, Value)

No data available

**Decomposition Temperature (°C):** No data available.

Evaporation Rate (Gram/s): No data available

Vapor Pressure (kPa): Expected to be negligible

Vapor Density (g/ml):

Relative Density:

Specific Gravity:

Viscosity:

No data available
No data available
1.0 +/- 0.2
No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

No data available
Flammability (Solids):

No data available

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

Polymerization:

No data available

No data available

Will not occur

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

**Possibility of Hazardous Reactions** 

Oxidizing Properties: No data available

Conditions to Avoid: Store at 2-7°C. Prolonged exposure to higher temperatures may adversely affect potency. Do

not freeze.

Incompatible Materials:

As a precautionary measure, keep away from strong oxidizers

**Hazardous Decomposition** None expected under normal conditions.

Products:

# 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. The antigens included in this product are non-infectious. All have been prepared from killed or inactivated preparations of microorganisms. Routes of exposure: eye contact, skin contact

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

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# 11. TOXICOLOGICAL INFORMATION

## Merthiolate (as mercury)

Rat Oral LD50 75 mg/kg

Rat Subcutaneous LD50 98mg/kg

#### Gentamicin

Rat Oral LD50 6600 mg/kg

Rat Subcutaneous LD50 710mg/kg

Mouse IM LD50 167 mg/kg Rat IM LD50 463 mg/kg

### Formaldehyde

Rat Oral LD50 800 mg/kg

Inhalation Acute Toxicity

Allergic reactions might occur based on effects of the individual components.

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

### Merthiolate (as mercury)

Eye Irritation Rabbit Mild

#### Gentamicin

Eye Irritation Rabbit Non-irritating

### Formaldehyde

Eye Irritation Rabbit Severe

Skin Irritation Rabbit Moderate Severe

Skin Sensitization Positive

**Irritation / Sensitization Comments:** 

May cause eye irritation based on components.

Skin Irritation / Sensitization

May cause skin irritation based on components. May cause allergic reactions in susceptible individuals. This product contains formaldehyde and merthiolate which are considered to be

skin sensitizers.

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

## Formaldehyde

90 Day(s) Dog Inhalation Not Specified Lungs 90 Day(s) Rat Inhalation Not Specified Lungs

90 Day(s) Monkey Inhalation Not Specified Lungs

90 Day(s) Rat Inhalation 15 ppm LOAEL Respiratory system

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

#### Gentamicin

Embryo / Fetal Development Rat Intramuscular 75 mg/kg/day LOAEL Developmental toxicity,

#### **Formaldehyde**

D700007

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## 11. TOXICOLOGICAL INFORMATION

Embryo / Fetal Development Mouse Oral 185 mg/kg/day Not teratogenic, Maternal toxicity Embryo / Fetal Development Rat Inhalation 40 ppm Not Teratogenic, Maternal Toxicity

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

### Formaldehyde

In Vitro Bacterial Mutagenicity (Ames) Bacteria Positive
In Vitro Chromosome Aberration Rodent Positive
In Vitro Sister Chromatid Exchange Rodent Positive
In Vivo Chromosome Aberration Not specified Positive

## Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

### **Formaldehyde**

2 Year(s) Rat Inhalation 6 ppm LOAEL Tumors2 Year(s) Mouse Inhalation 15 ppm LOAEL Tumors

Carcinogen Status: None of the components present in this material at concentrations equal to or greater than

0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

Formaldehyde

IARC: Group 1 (Carcinogenic to Humans)

NTP: Known Human Carcinogen

OSHA: Listed

## 12. ECOLOGICAL INFORMATION

**Environmental Overview:** Environmental properties have not been investigated. This product contains trace quantities of

mercury, 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. This product contains trace quantities of mercury and may qualify as a RCRA Hazardous Waste. Status should be confirmed using the EPA Toxicity Characteristic Leaching Procedure (TCLP).

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**Formaldehyde** 

RCRA - U Series Wastes Listed

# 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.

### U.S. DOT Reportable Quantity (RQ), 49 CFR 172.101 Appendix A:

**Formaldehyde** 

CERCLA/SARA Hazardous Substances 100 lb and their Reportable Quantities: 45.4 kg

# 15. REGULATORY INFORMATION

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

Canada - WHMIS: Classifications

WHMIS hazard class:

Non-controlled

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.

## **Aluminum hydroxide**

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Eisted

Not Eisted

Not Listed

Not

**Porcine Parvovirus** 

CERCLA/SARA 313 Emission reporting

California Proposition 65

EU EINECS/ELINCS List

Not Listed

Not Listed

Erysipelothrix rhusiopathiae

CERCLA/SARA 313 Emission reporting

California Proposition 65

EU EINECS/ELINCS List

Not Listed

Not Listed

Leptospira hardjo

CERCLA/SARA 313 Emission reporting Not Listed

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15. REGULATORY INFORMATION
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California Proposition 65 Not Listed **EU EINECS/ELINCS List** Not Listed

Leptospira grippotyphosa

**CERCLA/SARA 313 Emission reporting** Not Listed **California Proposition 65** Not Listed **EU EINECS/ELINCS List** Not Listed

Leptospira pomona

**CERCLA/SARA 313 Emission reporting** Not Listed **California Proposition 65** Not Listed **EU EINECS/ELINCS List** Not Listed

Leptospira bratislava

**CERCLA/SARA 313 Emission reporting** Not Listed **California Proposition 65** Not Listed **EU EINECS/ELINCS List** Not Listed

Leptospira canicola

**CERCLA/SARA 313 Emission reporting** Not Listed California Proposition 65 Not Listed **EU EINECS/ELINCS List** Not Listed

Leptospira icterohaemorrhagiae

**CERCLA/SARA 313 Emission reporting** Not Listed **California Proposition 65** Not Listed **EU EINECS/ELINCS List** Not Listed

Amphigen base

Not Listed **CERCLA/SARA 313 Emission reporting California Proposition 65** Not Listed **EU EINECS/ELINCS List** Not Listed

**Formaldehyde** 

**CERCLA/SARA 313 Emission reporting** 0.1 % **CERCLA/SARA Hazardous Substances** 100 lb and their Reportable Quantities: 45.4 kg **CERCLA/SARA - Section 302 Extremely Hazardous** 500 lb

**TPQs** 

CERCLA/SARA - Section 302 Extremely Hazardous

**Substances EPCRA RQs** 

carcinogen initial date 1/1/88 gas

**California Proposition 65 OSHA - Specifically Regulated Chemicals** 2 ppm

0.5 ppm 0.75 ppm Present

100 lb

Inventory - United States TSCA - Sect. 8(b) Australia (AICS):

Present Standard for the Uniform Scheduling Schedule 2 for Drugs and Poisons: Schedule 6 200-001-8 **EU EINECS/ELINCS List** 

Merthiolate (as mercury)

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# 15. REGULATORY INFORMATION

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Not Listed

Not Listed

Present

**REACH - Annex XVII - Restrictions on Certain**Use restricted. See item 18.

**Dangerous Substances:** 

EU EINECS/ELINCS List 200-210-4

Water, purified

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

REACH - Annex IV - Exemptions from the

Not Listed

Present

Present

obligations of Register:

EU EINECS/ELINCS List 231-791-2

Gentamicin

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Standard for the Uniform Scheduling

Not Listed

Not Listed

Present

Schedule 4

for Drugs and Poisons:

EU EINECS/ELINCS List 215-765-8

# 16. OTHER INFORMATION

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

Acute toxicity, oral-Cat.2; H300 - Fatal if swallowed Acute toxicity, oral-Cat.3; H301 - Toxic if swallowed

Acute toxicity, dermal-Cat.1; H310 - Fatal in contact with skin

Skin corrosion/irritation-Cat.1B; H314 - Causes severe skin burns and eye damage

Sensitization, skin-Cat.1; H317 - May cause an allergic skin reaction

Acute toxicity, inhalation-Cat.2; H330 - Fatal if inhaled Acute toxicity, inhalation-Cat.3; H331 - Toxic if inhaled

Specific target organ toxicity, repeated exposure-Cat.2; H373 - May cause damage to organs through prolonged or repeated exposure

Hazardous to the aquatic environment, acute toxicity-Cat.1; H400 - Very toxic to aquatic life

Hazardous to the aquatic environment, chronic toxicity-Cat.1; H410 - Very toxic to aquatic life with long lasting effects

Carcinogenicity-Cat.1A; H350 - May cause cancer

Carcinogenic: Category 3

T+ - Very toxic

T - Toxic

C - Corrosive

N - Dangerous for the environment

R33 - Danger of cumulative effects.

R34 - Causes burns.

R40 - Limited evidence of a carcinogenic effect

R43 - May cause sensitization by skin contact.

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R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed. R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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 11 - Toxicology Information.

Updated Section 16 - Other 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** 

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