

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078856690

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

078856708

# SAFETY DATA SHEET



Revision date: 30-Jan-2014

Version: 6.0

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

### Product Identifier

**Material Name:** Pet-Tabs® Plus

**Trade Name:** Pet Tab® Plus  
**Chemical Family:** Mixture

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

**Intended Use:** Veterinary product used as dietary supplement

### 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

Zoetis Belgium S.A.  
Mercuriusstraat 20  
1930 Zaventem  
Belgium

**Emergency telephone number:**  
**CHEMTREC (24 hours):** 1-800-424-9300  
**Contact E-Mail:** VMIPSrecords@zoetis.com

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

## 2. HAZARDS IDENTIFICATION

**Appearance:** Tablet

### Classification of the Substance or Mixture

**GHS - Classification** Not classified as hazardous

### EU Classification:

EU Indication of danger: Not classified

### Label Elements

**Signal Word:** Not Classified  
**Hazard Statements:** Non-hazardous in accordance with international standards for workplace safety.

### Other Hazards

**Australian Hazard Classification (NOHSC):** Non-Hazardous Substance. Non-Dangerous Goods.

**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.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Hazardous

| Ingredient                            | CAS Number | EU<br>EINECS/ELINCS<br>List | EU Classification   | GHS<br>Classification   | %     |
|---------------------------------------|------------|-----------------------------|---|---|-------|
| Manganese sulfate                     | 7785-87-7  | 232-089-9                   | Xn; R48/20/22<br>N; R51-53  | STOT RE 2 (H373)<br>Aquatic Chronic 2<br>(H411)   | <0.15 |
| Zinc oxide                            | 1314-13-2  | 215-222-5                   | N; R50-53   | Aquatic Chronic 1<br>(H410)<br>Aquatic Acute 1<br>(H400)  | <0.1  |
| Cholecalciferol (Vitamin D3)          | 67-97-0    | 200-673-2                   | T; R24/25-48/25<br>T+; R26  | Acute Tox. 3<br>(H301)<br>Acute Tox. 3<br>(H311)<br>STOT RE 1 (H372)<br>Acute Tox. 2<br>(H330)  | <0.1  |
| Cupric acetate monohydrate            | 6046-93-1  | Not Listed                  | Not Listed  | Not Listed  | *     |
| Kaolin                                | 1332-58-7  | 310-194-1                   | Not Listed  | Not Listed  | *     |
| Cobalt sulfate                        | 10124-43-3 | 233-334-2                   | Xn; R22<br>R42/43<br>Carc.Cat.2; R49<br>N; R50-53<br>Repr.Cat.2; R60<br>Muta.Cat.3; R68 | Acute Tox. 4<br>(H302)<br>Muta. 2 (H341)<br>Repr. 1B (H360F)<br>Skin Sens. 1<br>(H317)<br>Resp. Sens. 1<br>(H334)<br>Aquatic Chronic 1<br>(H410)<br>Aquatic Acute 1<br>(H400)<br>Carc. 1B (H350i) | ##    |
| Sucrose                               | 57-50-1    | 200-334-9                   | Not Listed  | Not Listed  | *     |
| Iron oxide                            | 1309-37-1  | 215-168-2                   | Not Listed  | Not Listed  | *     |
| Phytonadione (Vit.K)                  | 84-80-0    | 201-564-2                   | Not Listed  | Not Listed  | *     |
| Magnesium stearate                    | 557-04-0   | 209-150-3                   | Not Listed  | Not Listed  | <0.1  |
| Cyanocobalamin (Vitamin B12)          | 68-19-9    | 200-680-0                   | Not Listed  | Not Listed  | *     |
| Pyridoxine Hydrochloride (Vitamin B6) | 58-56-0    | 200-386-2                   | Not Listed  | Not Listed  | *     |
| Niacinamide                           | 98-92-0    | 202-713-4                   | Not Listed  | Not Listed  | *     |

| Ingredient                     | CAS Number | EU<br>EINECS/ELINCS<br>List | EU Classification | GHS<br>Classification | % |
|--------------------------------|------------|-----------------------------|-------------------|-----------------------|---|
| Ascorbic acid (Vitamin C)      | 50-81-7    | 200-066-2                   | Not Listed        | Not Listed            | * |
| Folic Acid                     | 59-30-3    | 200-419-0                   | Not Listed        | Not Listed            | * |
| Vitamin A Acetate              | 127-47-9   | 204-844-2                   | Not Listed        | Not Listed            | * |
| Vitamin E (D-alpha-Tocopherol) | 59-02-9    | 200-412-2                   | Not Listed        | Not Listed            | * |
| Riboflavin (Vitamin B2)        | 83-88-5    | 201-507-1                   | Not Listed        | Not Listed            | * |

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**Additional Information:** \* Proprietary  
## Trace  
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 eye(s) immediately with plenty of water. If irritation occurs or persists, get medical attention.

**Skin Contact:** Wash hands and arms thoroughly after handling this material. Obtain medical assistance if skin effects occur.

**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 Exposure:** No data available

**Medical Conditions Aggravated by Exposure:** None known

#### 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

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 / Collecting:** Wipe up with a damp cloth and place in container for disposal. Clean contaminated surface thoroughly.

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**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

If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with eyes. Use adequate ventilation.

#### Conditions for Safe Storage, Including any Incompatibilities

**Storage Conditions:** Store as directed by product packaging.

**Incompatible Materials:** None known

**Specific end use(s):** No data available

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control Parameters

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

#### Manganese sulfate

|                                   |                        |
|-----------------------------------|------------------------|
| ACGIH Threshold Limit Value (TWA) | 0.02 mg/m <sup>3</sup> |
|                                   | 0.1 mg/m <sup>3</sup>  |
| Finland OEL - TWA                 | 0.2 mg/m <sup>3</sup>  |

#### Zinc oxide

|                                    |                       |
|------------------------------------|-----------------------|
| ACGIH Threshold Limit Value (TWA)  | 2 mg/m <sup>3</sup>   |
| ACGIH Threshold Limit Value (STEL) | 10 mg/m <sup>3</sup>  |
| Australia STEL                     | 10 mg/m <sup>3</sup>  |
| Australia TWA                      | 10 mg/m <sup>3</sup>  |
|                                    | 5 mg/m <sup>3</sup>   |
| Austria OEL - MAKs                 | 5 mg/m <sup>3</sup>   |
| Belgium OEL - TWA                  | 10 mg/m <sup>3</sup>  |
|                                    | 5 mg/m <sup>3</sup>   |
| Bulgaria OEL - TWA                 | 5.0 mg/m <sup>3</sup> |
| Czech Republic OEL - TWA           | 2 mg/m <sup>3</sup>   |
| Denmark OEL - TWA                  | 4 mg/m <sup>3</sup>   |
| Estonia OEL - TWA                  | 5 mg/m <sup>3</sup>   |
| Finland OEL - TWA                  | 2 mg/m <sup>3</sup>   |
| France OEL - TWA                   | 5 mg/m <sup>3</sup>   |
|                                    | 10 mg/m <sup>3</sup>  |
| Germany (DFG) - MAK                | 1 mg/m <sup>3</sup>   |
| Greece OEL - TWA                   | 5 mg/m <sup>3</sup>   |
| Hungary OEL - TWA                  | 5 mg/m <sup>3</sup>   |
| Ireland OEL - TWAs                 | 2 mg/m <sup>3</sup>   |
| Latvia OEL - TWA                   | 0.5 mg/m <sup>3</sup> |
| Lithuania OEL - TWA                | 5 mg/m <sup>3</sup>   |
| Vietnam OEL - TWAs                 | 5 mg/m <sup>3</sup>   |
| OSHA - Final PELs - TWAs:          | 5 mg/m <sup>3</sup>   |
|                                    | 15 mg/m <sup>3</sup>  |
| Poland OEL - TWA                   | 5 mg/m <sup>3</sup>   |
| Portugal OEL - TWA                 | 2 mg/m <sup>3</sup>   |
| Romania OEL - TWA                  | 5 mg/m <sup>3</sup>   |
| Slovakia OEL - TWA                 | 1 mg/m <sup>3</sup>   |
| Slovenia OEL - TWA                 | 5 mg/m <sup>3</sup>   |

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|                                    |                        |
|------------------------------------|------------------------|
| Spain OEL - TWA                    | 2 mg/m <sup>3</sup>    |
| Sweden OEL - TWAs                  | 5 mg/m <sup>3</sup>    |
| Switzerland OEL -TWAs              | 3 mg/m <sup>3</sup>    |
| <b>Cupric acetate monohydrate</b>  |                        |
| ACGIH Threshold Limit Value (TWA)  | 1 mg/m <sup>3</sup>    |
| <b>Kaolin</b>                      |                        |
| ACGIH Threshold Limit Value (TWA)  | 2 mg/m <sup>3</sup>    |
| Australia TWA                      | 10 mg/m <sup>3</sup>   |
| Belgium OEL - TWA                  | 2 mg/m <sup>3</sup>    |
| Bulgaria OEL - TWA                 | 3.0 mg/m <sup>3</sup>  |
|                                    | 6.0 mg/m <sup>3</sup>  |
| Denmark OEL - TWA                  | 2 mg/m <sup>3</sup>    |
| Finland OEL - TWA                  | 2 mg/m <sup>3</sup>    |
| France OEL - TWA                   | 10 mg/m <sup>3</sup>   |
| Ireland OEL - TWAs                 | 2 mg/m <sup>3</sup>    |
| OSHA - Final PELs - TWAs:          | 15 mg/m <sup>3</sup>   |
| Poland OEL - TWA                   | 10.0 mg/m <sup>3</sup> |
| Portugal OEL - TWA                 | 2 mg/m <sup>3</sup>    |
| Slovakia OEL - TWA                 | 2 mg/m <sup>3</sup>    |
|                                    | 10 mg/m <sup>3</sup>   |
| Spain OEL - TWA                    | 2 mg/m <sup>3</sup>    |
| Switzerland OEL -TWAs              | 3 mg/m <sup>3</sup>    |
| <b>Cobalt sulfate</b>              |                        |
| ACGIH Threshold Limit Value (TWA)  | 0.02 mg/m <sup>3</sup> |
| ACGIH - Biological Exposure Limit: | 15 µg/L                |
|                                    | 1 µg/L                 |
| Finland OEL - TWA                  | 0.02 mg/m <sup>3</sup> |
| Spain OEL - TWA                    | 0.02 mg/m <sup>3</sup> |
| <b>Sucrose</b>                     |                        |
| ACGIH Threshold Limit Value (TWA)  | 10 mg/m <sup>3</sup>   |
| Australia TWA                      | 10 mg/m <sup>3</sup>   |
| Belgium OEL - TWA                  | 10 mg/m <sup>3</sup>   |
| Bulgaria OEL - TWA                 | 10.0 mg/m <sup>3</sup> |
| Estonia OEL - TWA                  | 10 mg/m <sup>3</sup>   |
| France OEL - TWA                   | 10 mg/m <sup>3</sup>   |
| Ireland OEL - TWAs                 | 10 mg/m <sup>3</sup>   |
| Latvia OEL - TWA                   | 5 mg/m <sup>3</sup>    |
| Lithuania OEL - TWA                | 10 mg/m <sup>3</sup>   |
| OSHA - Final PELs - TWAs:          | 15 mg/m <sup>3</sup>   |
| Portugal OEL - TWA                 | 10 mg/m <sup>3</sup>   |
| Slovakia OEL - TWA                 | 6 mg/m <sup>3</sup>    |
| Spain OEL - TWA                    | 10 mg/m <sup>3</sup>   |
| <b>Iron oxide</b>                  |                        |
| ACGIH Threshold Limit Value (TWA)  | 5 mg/m <sup>3</sup>    |
| Australia TWA                      | 5 mg/m <sup>3</sup>    |
|                                    | 10 mg/m <sup>3</sup>   |

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|                                   |  |
|-----------------------------------|--|
| Austria OEL - MAKs                | 5 mg/m <sup>3</sup><br>10 mg/m <sup>3</sup>                        |
| Belgium OEL - TWA                 | 2 ppm<br>5 mg/m <sup>3</sup>                                       |
| Bulgaria OEL - TWA                | 5.0 mg/m <sup>3</sup>  |
| Denmark OEL - TWA                 | 3.5 mg/m <sup>3</sup>  |
| Estonia OEL - TWA                 | 3.5 mg/m <sup>3</sup>  |
| Finland OEL - TWA                 | 5 mg/m <sup>3</sup>  |
| France OEL - TWA                  | 5 mg/m <sup>3</sup>  |
| Greece OEL - TWA                  | 10 mg/m <sup>3</sup>   |
| Hungary OEL - TWA                 | 6 mg/m <sup>3</sup>  |
| Ireland OEL - TWAs                | 5 mg/m <sup>3</sup><br>10 mg/m <sup>3</sup><br>4 mg/m <sup>3</sup> |
| Lithuania OEL - TWA               | 3.5 mg/m <sup>3</sup>  |
| Vietnam OEL - TWAs                | 5 mg/m <sup>3</sup>  |
| OSHA - Final PELs - TWAs:         | 10 mg/m <sup>3</sup><br>15 mg/m <sup>3</sup>                       |
| Poland OEL - TWA                  | 5 mg/m <sup>3</sup>  |
| Portugal OEL - TWA                | 5 mg/m <sup>3</sup>  |
| Romania OEL - TWA                 | 5 mg/m <sup>3</sup>  |
| Slovakia OEL - TWA                | 1.5 mg/m <sup>3</sup>  |
| Spain OEL - TWA                   | 5 mg/m <sup>3</sup>  |
| Sweden OEL - TWAs                 | 3.5 mg/m <sup>3</sup>  |
| Switzerland OEL - TWAs            | 3 mg/m <sup>3</sup>  |
| Magnesium stearate                |  |
| ACGIH Threshold Limit Value (TWA) | 10 mg/m <sup>3</sup>   |
| Lithuania OEL - TWA               | 5 mg/m <sup>3</sup>  |
| Sweden OEL - TWAs                 | 5 mg/m <sup>3</sup>  |
| Riboflavin (Vitamin B2)           |  |
| Latvia OEL - TWA                  | 1 mg/m <sup>3</sup>  |
| Lithuania OEL - TWA               | 1 mg/m <sup>3</sup>  |
| Niacinamide                       |  |
| Zoetis OEL TWA 8-hr               | 250 µg/m <sup>3</sup>  |
| Latvia OEL - TWA                  | 1 mg/m <sup>3</sup>  |
| Lithuania OEL - TWA               | 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.

### Folic Acid

Zoetis OEB OEB 3 (control exposure to the range of 10ug/m<sup>3</sup> to < 100ug/m<sup>3</sup>)

### Cholecalciferol (Vitamin D3)

Zoetis OEB OEB 5 (control exposure to <1ug/m<sup>3</sup>)

### Phytonadione (Vit.K)

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|   |   |
|---|---|
| Zoetis OEB  | OEB 3 (control exposure to the range of 10ug/m <sup>3</sup> to < 100ug/m <sup>3</sup> )   |
| Vitamin A Acetate<br>Zoetis OEB                     | OEB 3 (control exposure to the range of 10ug/m <sup>3</sup> to < 100ug/m <sup>3</sup> )   |
| Riboflavin (Vitamin B2)<br>Zoetis OEB               | OEB 2 (control exposure to the range of 100ug/m <sup>3</sup> to < 1000ug/m <sup>3</sup> )   |
| Pyridoxine Hydrochloride (Vitamin B6)<br>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. General room ventilation is adequate unless the process generates dust, mist or fumes. Keep air contamination levels below the exposure limits or within the OEB range listed above in this section. |
| Personal Protective Equipment:                      | Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).   |
| Hands:  | Wear impervious gloves as minimum protection.   |
| Eyes:   | Wear safety glasses as minimum protection.  |
| Skin:   | Wear impervious protective clothing when handling this compound.  |
| Respiratory protection:                             | If airborne exposures are within or exceed the OEB, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEB range. Respiratory protection should be worn to supplement engineering controls when handling this compound.           |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |                    |                   |                    |
|--|--------------------|-------------------|--------------------|
| Physical State:                                      | Tablet             | Color:            | Light brown        |
| Odor:  | No data available. | Odor Threshold:   | No data available. |
| Molecular Formula:                                   | Mixture            | Molecular Weight: | Mixture            |
| Solvent Solubility:                                  | No data available  |                   |                    |
| Water Solubility:                                    | Soluble            |                   |                    |
| pH:  | No data available. |                   |                    |
| Melting/Freezing Point (°C):                         | No data available  |                   |                    |
| Boiling Point (°C):                                  | No data available. |                   |                    |
| Partition Coefficient: (Method, pH, Endpoint, Value) |                    |                   |                    |
| 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  |                   |                    |
| Flammability:  |                    |                   |                    |
| Autoignition Temperature (Solid) (°C):               | No data available  |                   |                    |
| Flammability (Solids):                               | No data available  |                   |                    |
| Flash Point (Liquid) (°C):                           | No data available  |                   |                    |
| Upper Explosive Limits (Liquid) (% by Vol.):         | No data available  |                   |                    |
| Lower Explosive Limits (Liquid) (% by Vol.):         | No data available  |                   |                    |

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### 10. STABILITY AND REACTIVITY

|                                    |  |
|------------------------------------|--|
| Reactivity:                        | No data available  |
| Chemical Stability:                | Stable   |
| Possibility of Hazardous Reactions |  |
| Oxidizing Properties:              | No data available  |
| Conditions to Avoid:               | Fine particles (such as dust and mists) may fuel fires/explosions. |
| Incompatible Materials:            | None known   |
| Hazardous Decomposition Products:  | Not determined   |

### 11. TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects

**General Information:** The information included in this section describes the potential hazards of the individual ingredients. Toxicological properties of the formulation have not been investigated.

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

##### **Vitamin E (D-alpha-Tocopherol)**

Mouse Oral LD 50 >25 mL/kg

##### **Ascorbic acid (Vitamin C)**

Rat Oral LD 50 11.9 g/kg

##### **Vitamin A Acetate**

Mouse Oral LD 50 4100 mg/kg

##### **Folic Acid**

Mouse Oral LD 50 10 g/kg

##### **Sucrose**

Rat Oral LD50 29.7 g/kg

##### **Cupric acetate monohydrate**

Rat Oral LD50 710 mg/kg

##### **Cobalt sulfate**

Rat Oral LD50 424 mg/kg

Mouse Oral LD50 584mg/kg

##### **Magnesium stearate**

Rat Oral LD50 > 2000 mg/kg

Rat Inhalation LC50 > 2000 mg/m<sup>3</sup>

##### **Zinc oxide**

Mouse Oral LD50 7950 mg/kg

Rat IP LD50 240mg/kg

Mouse Inhalation LD50 2500mg/m<sup>3</sup>

Rat Oral LD 50 >5000mg/kg

##### **Cholecalciferol (Vitamin D3)**

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Rat Oral LD50 42 mg/kg  
Mouse Sub-tenon injection (eye) LD 50 136 mg/kg  
Rat Inhalation LC50/4h 0.13-0.38mg/L  
Rat Dermal LD50 61-185mg/kg

#### Pyridoxine Hydrochloride (Vitamin B6)

Rat Oral LD 50 4 g/kg

#### Manganese sulfate

Rat Oral LD50 2150 mg/kg

#### Niacinamide

Rat Oral LD50 3500 mg/kg  
Mouse Oral LD50 2500mg/kg  
Rat Subcutaneous LD50 1680g/kg  
Mouse IP LD50 2050mg/kg  
Rabbit Dermal LD 50 >2000mg/kg

**Acute Toxicity Comments:** 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)

##### Zinc oxide

Eye Irritation Rabbit Mild  
Skin Irritation Rabbit Mild

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

##### Cobalt sulfate

2 Week(s) Rat Oral 10 mg/kg LOEL Heart  
13 Week(s) Rat Inhalation 0.3 mg/m<sup>3</sup> LOEL Respiratory system, Male reproductive system

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

##### Cholecalciferol (Vitamin D3)

Embryo / Fetal Development Rat Subcutaneous 90 mg/kg/day LOEL Teratogenic

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

##### Sucrose

Bacterial Mutagenicity (Ames) *Salmonella* Negative

##### Cholecalciferol (Vitamin D3)

*In Vitro* Bacterial Mutagenicity (Ames) *Salmonella* Negative

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

##### Cobalt sulfate

2 Year(s) Rat Inhalation 0.3 mg/m<sup>3</sup> LOEL Tumors, Lungs  
2 Year(s) Mouse Inhalation 0.3 mg/m<sup>3</sup> LOEL Tumors, Lungs

**Carcinogen Status:** See below

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**Iron oxide**

IARC: Group 3 (Not Classifiable)

**Cobalt sulfate**

IARC: Group 2B (Possibly Carcinogenic to Humans)  
NTP: Reasonably Anticipated To Be A Human Carcinogen  
OSHA: Listed

**Phytonadione (Vit.K)**

IARC: Group 3 (Not Classifiable)

### 12. ECOLOGICAL INFORMATION

**Environmental Overview:** Environmental properties have not been thoroughly investigated. Releases to the environment should be avoided.

**Toxicity:**

**Aquatic Toxicity: (Species, Method, End Point, Duration, Result)**

**Zinc oxide**

Tadpole EC50 48 Hours 3.2 mg/L

**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.

### 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.

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### 15. REGULATORY INFORMATION

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

##### Canada - WHMIS: Classifications

###### WHMIS hazard class:

None required

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

##### Ascorbic acid (Vitamin C)

|   |            |
|---|------------|
| 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 obligations of Register: | Present    |
| EU EINECS/ELINCS List   | 200-066-2  |

##### Folic Acid

|  |            |
|--|------------|
| 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 for Drugs and Poisons: | Schedule 2 |
| EU EINECS/ELINCS List                                      | Schedule 4 |
|  | 200-419-0  |

##### Manganese sulfate

|   |            |
|---|------------|
| 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                       | 232-089-9  |

##### Zinc oxide

|   |            |
|---|------------|
| 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                       | 215-222-5  |

##### Cholecalciferol (Vitamin D3)

|   |            |
|---|------------|
| CERCLA/SARA 313 Emission reporting          | Not Listed |
| California Proposition 65                   | Not Listed |
| Inventory - United States TSCA - Sect. 8(b) | Present    |
| Australia (AICS):                           | Present    |

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### 15. REGULATORY INFORMATION

|  |                                 |
|--|---------------------------------|
| Standard for the Uniform Scheduling for Drugs and Poisons:         | Schedule 7                      |
| EU EINECS/ELINCS List  | 200-673-2                       |
| <b>Cupric acetate monohydrate</b>                                  |                                 |
| CERCLA/SARA 313 Emission reporting                                 | Not Listed                      |
| California Proposition 65  | Not Listed                      |
| Australia (AICS):  | Present                         |
| EU EINECS/ELINCS List  | Not Listed                      |
| <b>Kaolin</b>  |                                 |
| 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  | 310-194-1                       |
| <b>Cobalt sulfate</b>  |                                 |
| CERCLA/SARA 313 Emission reporting                                 | Not Listed                      |
| California Proposition 65  | carcinogen initial date 5/20/05 |
| Inventory - United States TSCA - Sect. 8(b)                        | Present                         |
| Australia (AICS):  | Present                         |
| REACH - Annex XVII - Restrictions on Certain Dangerous Substances: | Use restricted. See item 28.    |
| REACH - Carcinogens Category 2:                                    | Present                         |
| REACH - Toxic to Reproduction Category 2:                          | Present                         |
| EU EINECS/ELINCS List  | 233-334-2                       |
| <b>Sucrose</b>   |                                 |
| 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 obligations of Register:    | Present                         |
| EU EINECS/ELINCS List  | 200-334-9                       |
| <b>Iron oxide</b>  |                                 |
| 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  | 215-168-2                       |
| <b>Phytonadione (Vit.K)</b>  |                                 |
| 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  | 201-564-2                       |
| <b>Vitamin A Acetate</b>   |                                 |

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|   |            |
|---|------------|
| 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                       | 204-844-2  |

#### Vitamin E (D-alpha-Tocopherol)

|   |            |
|---|------------|
| 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                       | 200-412-2  |

#### Magnesium 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                       | 209-150-3  |

#### Cyanocobalamin (Vitamin B12)

|   |            |
|---|------------|
| 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                       | 200-680-0  |

#### Riboflavin (Vitamin B2)

|   |            |
|---|------------|
| 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                       | 201-507-1  |

#### Pyridoxine Hydrochloride (Vitamin B6)

|   |            |
|---|------------|
| 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                       | 200-386-2  |

#### Niacinamide

|   |            |
|---|------------|
| 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                       | 202-713-4  |

|                       |     |
|-----------------------|-----|
| REACH Authorizations: | 6.0 |
|-----------------------|-----|

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### 16. OTHER INFORMATION

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

H301 - Toxic if swallowed  
H302 - Harmful if swallowed  
H311 - Toxic in contact with skin  
H317 - May cause an allergic skin reaction  
H330 - Fatal if inhaled  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H341 - Suspected of causing genetic defects  
H350 - May cause cancer  
H360 - May damage fertility or the unborn child  
H372 - Causes damage to organs through prolonged or repeated exposure  
H373 - May cause damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H411 - Toxic to aquatic life with long lasting effects

Xn - Harmful  
N - Dangerous for the environment  
T - Toxic  
T+ - Very toxic  
Toxic to Reproduction: Category 2  
Carcinogenic: Category 2  
Mutagenic: Category 3

R22 - Harmful if swallowed.  
R26 - Very toxic by inhalation.  
R49 - May cause cancer by inhalation.  
R60 - May impair fertility.  
R68 - Possible risks of irreversible effects.  
R24/25 - Toxic in contact with skin and if swallowed.  
R42/43 - May cause sensitization by inhalation and skin contact.  
R48/25 - Toxic: danger of serious damage to health by prolonged exposure if swallowed.  
R48/20/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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 3 - Composition / Information on Ingredients. Updated Section 5 - Fire Fighting Measures. Updated Section 6 - Accidental Release Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 11 - Toxicology Information. Updated Section 15 - Regulatory Information.

**Prepared by:** Toxicology and Hazard Communication  
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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