



# Zodiac Flea & Tick Powder for Dogs, Puppies, Cats & Kittens

## Safety Data Sheet

Date of issue: 05/13/2016

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Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : Zodiac Flea & Tick Powder for Dogs, Puppies, Cats & Kittens  
Synonyms : 27830A, 100539608, EPA Reg. No.: 2724-627, Elite Pyrethrin Powder

#### 1.2. Recommended use and restrictions on use

Recommended use : Insecticide.  
Restrictions on use : Keep out of reach of children. Avoid contact with eyes, skin or clothing.

#### 1.3. Supplier

Wellmark International  
1501 E. Woodfield Road, Suite 200W  
Schaumburg, IL 60173 - United States  
www.zodiacpet.com

#### 1.4. Emergency telephone number

Emergency number : 1-800-950-4783  
1-800-424-9300 - CHEMTREC  
1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin sensitization, Category 1 May cause an allergic skin reaction

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



GHS07

Signal word (GHS US) : Warning  
Hazard statements (GHS US) : May cause an allergic skin reaction  
Precautionary statements (GHS US) : Avoid breathing dust/fume/gas/mist/vapors/spray.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin: Wash with plenty of water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
Dispose of contents/container to in accordance with local/regional/national/international regulations.

#### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : This product is toxic to aquatic organisms including fish and invertebrates. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

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| Name                                    | Product identifier    | %       |
|---|-----------------------|---------|
| Pyrethrins                              | (CAS-No.) 8003-34-7   | 0.1     |
| Piperonyl butoxide                      | (CAS-No.) 51-03-6     | 1       |
| Silica, amorphous, precipitated and gel | (CAS-No.) 112926-00-8 | 2.5     |
| Talc                                    | (CAS-No.) 14807-96-6  | 48 - 67 |
| Carbonic acid, magnesium salt (1:1)     | (CAS-No.) 546-93-0    | 29 - 43 |
| Other ingredients                       | (CAS-No.) N/A         | Balance |

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.
- First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after skin contact : May cause an allergic skin reaction.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Use extinguishing agent suitable for surrounding fire.
- Unsuitable extinguishing media : Avoid heavy hose streams.

#### 5.2. Specific hazards arising from the chemical

- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

#### 5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Do not breathe dust. Avoid contact with skin, eyes and clothing. Wear appropriate personal protective equipment, avoid direct contact.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Positive pressure self-contained breathing apparatus (SCBA).
- Emergency procedures : No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Sweep or scoop spills, dispose of any unusable material in approved landfill.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Avoid humid, wet or moist conditions. Avoid excess heat. Keep container tightly closed. Protect from moisture. Protect from sunlight. Keep only in original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Pyrethrins (8003-34-7)                                |                                      |   |
|---|--------------------------------------|---|
| ACGIH   | ACGIH TWA (mg/m <sup>3</sup> )       | 5 mg/m <sup>3</sup>   |
| ACGIH   | Remark (ACGIH)                       | Liver dam; LRT irr  |
| OSHA  | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 5 mg/m <sup>3</sup>   |
| IDLH  | US IDLH (mg/m <sup>3</sup> )         | 5000 mg/m <sup>3</sup>  |
| NIOSH   | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 5 mg/m <sup>3</sup>   |
| Silica, amorphous, precipitated and gel (112926-00-8) |                                      |   |
| OSHA  | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | Mineral Dusts: 20 mppcf TWA; (80)/(%) SiO <sub>2</sub> mg/m <sup>3</sup>  |
| OSHA  | Remark (OSHA)                        | (3) See Table Z-3.  |
| Talc (14807-96-6)                                     |                                      |   |
| ACGIH   | ACGIH TWA (mg/m <sup>3</sup> )       | 2 mg/m <sup>3</sup> (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter) |
| OSHA  | OSHA PEL (TWA) (ppm)                 | 20 mppcf  |
| OSHA  | Remark (OSHA)                        | Table Z-3. CAS No. source: eCFR Table Z-1.  |
| IDLH  | US IDLH (mg/m <sup>3</sup> )         | 1000 mg/m <sup>3</sup> (containing no asbestos and <1% quartz)  |
| NIOSH   | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 2 mg/m <sup>3</sup> (containing no Asbestos and <1% Quartz-respirable dust)   |
| Carbonic acid, magnesium salt (1:1) (546-93-0)        |                                      |   |
| NIOSH   | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 10 mg/m <sup>3</sup> (total dust)<br>5 mg/m <sup>3</sup> (respirable dust)  |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Not required for normal conditions of use

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, use NIOSH approved respiratory protection.



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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|   |                                   |
|---|-----------------------------------|
| Physical state                              | : Solid                           |
| Appearance                                  | : White to off-white solid powder |
| Color                                       | : White to off-white              |
| Odor  | : No data available               |
| Odor threshold                              | : No data available               |
| pH  | : No data available               |
| Melting point                               | : Not applicable                  |
| Freezing point                              | : No data available               |
| Boiling point                               | : No data available               |
| Flash point                                 | : No data available               |
| Relative evaporation rate (butyl acetate=1) | : No data available               |
| Flammability (solid, gas)                   | : Not applicable                  |
| Vapor pressure                              | : No data available               |
| Relative vapor density at 20 °C             | : No data available               |
| Relative density                            | : 1.06 g/cc                       |
| Bulk density                                | : 28.8 lb/cu. ft.                 |
| Solubility                                  | : Insoluble                       |
| Log Pow                                     | : No data available               |
| Auto-ignition temperature                   | : No data available               |
| Decomposition temperature                   | : No data available               |
| Viscosity, kinematic                        | : No data available               |
| Viscosity, dynamic                          | : No data available               |
| Explosion limits                            | : No data available               |
| Explosive properties                        | : Not explosive                   |
| Oxidizing properties                        | : Not applicable                  |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Direct sunlight. Avoid extreme heat. Moisture. Water, humidity.

#### 10.5. Incompatible materials

Heat, sparks, open flame. Strong acids. Strong bases. Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

| Pyrethrins (8003-34-7)       |  |
|------------------------------|--|
| LD50 oral rat                | 2370 mg/kg Adult male; 1030 mg/kg Adult female |
| LD50 dermal rat              | 2000 mg/kg                                     |
| LC50 inhalation rat (mg/l)   | 3.4 mg/l/4h                                    |
| Piperonyl butoxide (51-03-6) |  |
| LD50 oral rat                | 4300 mg/kg                                     |

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| Piperonyl butoxide (51-03-6) |             |
|------------------------------|-------------|
| LD50 dermal rat              | > 2000      |
| LC50 inhalation rat (mg/l)   | > 5 mg/l/4h |

| GHS-US Properties                                  | Classification                       |
|--|--------------------------------------|
| Acute toxicity (oral)                              | Not classified                       |
| Acute toxicity (dermal)                            | Not classified                       |
| Acute toxicity (inhalation)                        | Not classified                       |
| Skin corrosion/irritation                          | Not classified                       |
| Serious eye damage/irritation                      | Not classified                       |
| Respiratory or skin sensitization                  | May cause an allergic skin reaction. |
| Germ cells mutagen                                 | Not classified                       |
| Carcinogenicity                                    | Not classified                       |
| Reproductive toxicity                              | Not classified                       |
| Specific target organ toxicant (single exposure)   | Not classified                       |
| Specific target organ toxicant (repeated exposure) | Not classified                       |
| Aspiration hazard                                  | Not classified                       |

### Potential health effects

#### Inhalation

Acute : Under normal conditions of use, no health effects are expected.

#### Skin

Acute : May cause an allergic reaction in individuals with a sensitivity to Piperonyl butoxide.

#### Eye

Acute : Under normal conditions of use, no health effects are expected.

#### Ingestion

Acute : Under normal conditions of use, no health effects are expected.

#### Mutagenicity

: Pyrethrins were not found to be genotoxic and did not damage DNA in any study conducted which included: Ames assay, chromosome aberration in Chinese hamster ovaries (CHO) cells and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells. Piperonyl butoxide was not mutagenic in a battery of tests.

#### Carcinogenicity

: Pyrethrins are not listed as a carcinogen by OSHA, IARC, or NTP. Piperonyl butoxide is not classified as carcinogen by NTP, IARC and OSHA.

#### Reproductive Effects

: Pyrethrins did not produce any birth defects or adverse effects on reproductive parameters in tests with rats and rabbits. Piperonyl butoxide did not produce any birth defects or adverse effects on reproductive parameters in tests with rats and rabbits.

## SECTION 12: Ecological information

### 12.1. Toxicity

| Pyrethrins (8003-34-7)       |   |
|------------------------------|---|
| LC50 Acute fish 1            | 0.0051 mg/l (Exposure time: 96h - Rainbow trout)              |
| LC50 Acute fish 2            | 0.016 mg/l (Exposure time: 96h - Sheepshead minnow)           |
| LC50 Acute crustacea 1       | 0.0014 mg/l (Exposure time: 96h - Mysid shrimp)               |
| LC50 Acute crustacea 2       | 0.0116 mg/l (Exposure time: 48h - Daphnia magna)              |
| NOEC Chronic fish 1          | 0.0019 mg/l (Fathead minnow)                                  |
| NOEC Chronic fish 2          | 0.0059 mg/l (Sheepshead minnow - Estimated)                   |
| NOEC Chronic crustacea 1     | 0.00086 mg/l (Daphnia magna)                                  |
| NOEC Chronic crustacea 2     | 0.0001 mg/l (Mysid shrimp - Estimated)                        |
| Piperonyl butoxide (51-03-6) |   |
| LC50 Acute fish 1            | 1.9 mg/l (Exposure time: na - Rainbow trout)                  |
| LC50 Acute fish 2            | 3.94 mg/l (Exposure time: na - Sheepshead minnow)             |
| LC50 Acute crustacea 1       | 0.49 mg/l (Exposure time: na - Mysid shrimp)                  |
| LC50 Acute crustacea 2       | 0.51 mg/l (Exposure time: na - Gammarus fasciatus (amphipod)) |
| NOEC Chronic fish 1          | 0.04 mg/l (Fathead minnow)                                    |
| NOEC Chronic crustacea 1     | 0.03 mg/l (Daphnia magna)                                     |

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### 12.2. Persistence and degradability

#### Pyrethrins (8003-34-7)

Persistence and degradability

Pyrethrins have low persistence in the environment due to rapid breakdown in presence of UV light.

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## SECTION 14: Transport information

|             | UN number | Proper Shipping Name  | Transport hazard class(es) | Packing group | Environmental hazards  |
|-------------|-----------|---|----------------------------|---------------|------------------------|
| <b>DOT</b>  | UN3077    | Packaging greater than 1000 lbs.:<br>Environmentally hazardous substance,<br>solid, n.o.s. (Carbaryl) | 9                          | III           | RQ: Pyrethrins = 1 lb. |
| <b>IMDG</b> | UN3077    | Packaging greater than 5 kg:<br>Environmentally hazardous substance,<br>solid, n.o.s (Carbaryl)       | 9                          | III           | Marine pollutant       |
| <b>IATA</b> | UN3077    | Packaging greater than 5 kg:<br>Environmentally hazardous substance,<br>solid, n.o.s (Carbaryl)       | 9                          | III           | Acute aquatic toxicity |

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Pyrethrins (8003-34-7)

CERCLA RQ

1 lb listed under Pyrethrins

#### Piperonyl butoxide (51-03-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting

1 %

#### Talc (14807-96-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Carbonic acid, magnesium salt (1:1) (546-93-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### FIFRA Labelling

EPA Registration Number

2724-627

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

FIFRA Signal word

**Caution**

FIFRA Precautionary Statement

KEEP OUT OF REACH OF CHILDREN.

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|  |  |
|--|--|
| FIFRA Hazards to Humans and Domestic Animals | Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wear long sleeved shirt, long pants, socks, and shoes. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Do not use on puppies or kittens under 12 weeks. Consult a veterinarian before using this product on debilitated, aged, pregnant or nursing animals, or animals on medication. Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe your pet with a mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately. |
| FIFRA First Aid                              | IF SWALLOWED: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Note to physician: Contains petroleum distillate. Vomiting may cause aspiration pneumonia. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.  |
| FIFRA Environmental Hazards                  | OUTDOOR USE ONLY: This product is toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging the treatment area.  |

### 15.2. US State regulations

No additional information available

## SECTION 16: Other information

Date of issue : 13 May 2016  
Revision date : 24 May 2019

### Indication of changes:

Revised Sec. 1: Added material number(s). Revised Sec. 3: Formulation change.

SDS US (GHS HazCom 2012) - CGP

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