

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Trade name : Zodiac Flea & Tick Collar for Dogs
 Synonyms : EPA Reg. No.: 2596-84-89459, 100520396, 100520397

1.2. Recommended use and restrictions on use

Recommended use : Flea and tick collar.
 Restrictions on use : Avoid contact with skin and eyes. Keep out of reach of children.

1.3. Supplier

Central Garden & Pet Company
 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

Acute toxicity (oral) Category 4	Harmful if swallowed
Serious eye damage/eye irritation Category 2B	Causes eye irritation
Carcinogenicity Category 2	Suspected of causing cancer

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : Harmful if swallowed
 Causes eye irritation
 Suspected of causing cancer

Precautionary statements (GHS-US) : Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Wash hands, forearms and face thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If swallowed: Call a poison center or doctor if you feel unwell
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 If exposed or concerned: Get medical advice/attention.
 Rinse mouth.
 If eye irritation persists: Get medical advice/attention.
 Store locked up.
 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 : Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this

Zodiac Flea & Tick Collar for Dogs

Safety Data Sheet

classification 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

Name	Product identifier	%
Tetrachlorvinphos	(CAS-No.) 22248-79-9	14.55
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. 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 inhalation : None under normal use.
- Symptoms/effects after skin contact : None under normal use.
- Symptoms/effects after eye contact : Causes mild eye irritation.
- Symptoms/effects after ingestion : Harmful if swallowed.
- Chronic symptoms : May cause cancer.

4.3. Immediate medical attention and special treatment, if necessary

This product contains tetrachlorvinphos (an organophosphate) which is a cholinesterase inhibitor. Cholinergic symptoms may include salivation, miosis, incoordination, muscle fasciculation and/or weakness, vomiting and diarrhea. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine. 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 : No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.
- 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.

Zodiac Flea & Tick Collar for Dogs

Safety Data Sheet

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Shovel or sweep up and put in a closed container for disposal. Use appropriate PPE.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store in original container. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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:

Not required for normal conditions of use

Respiratory protection:

Not required for normal conditions of use



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Variable colored collars
Color	: Variable
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available

Zodiac Flea & Tick Collar for Dogs

Safety Data Sheet

Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Insoluble
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
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

None under recommended storage and handling conditions.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May decompose upon heating to produce toxic vapors/gases including hydrogen chloride gas.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Tetrachlorvinphos (22248-79-9)	
LD50 oral rat	480 mg/kg
LD50 dermal rabbit	> 2500 mg/kg
IARC group	2B - Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen list?	Yes

GHS-US Properties	Classification
Acute toxicity	Oral: Harmful if swallowed.
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Causes eye irritation.
Respiratory or skin sensitization	Not classified
Germ cells mutagen	Not classified
Carcinogenicity	Suspected of causing cancer.
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

Zodiac Flea & Tick Collar for Dogs

Safety Data Sheet

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

Eye

Acute : Causes mild eye irritation.

Ingestion

Acute : Harmful if swallowed.

Mutagenicity : Not classified.

Carcinogenicity : Tetrachlorvinphos is classified as a 2B carcinogen by IARC.

Reproductive Effects : Not classified.

SECTION 12: Ecological information

12.1. Toxicity

Tetrachlorvinphos (22248-79-9)	
LC50 Acute fish 1	0.43 mg/l (Exposure time: 96h - Rainbow trout)
LC50 Acute fish 2	0.53 mg/l (Exposure time: 96h - Blue gill)
LC50 Acute crustacea 1	0.0019 mg/l (Exposure time: na - Daphnia magna)
LC50 Acute crustacea 2	0.28 mg/l (Exposure time: na - Pink shrimp)

12.2. Persistence and degradability

No additional information available

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
DOT	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable
IMDG	UN3077	Packaging 5 kg or greater: Environmentally hazardous substance, solid, n.o.s (Tetrachlorvinphos)	9	III	Marine pollutant
IATA	UN3077	Packaging 5 kg or greater: Environmentally hazardous substance, solid, n.o.s (Tetrachlorvinphos)	9	III	Acute aquatic toxicity

SECTION 15: Regulatory information

15.1. US Federal regulations

FIFRA Labelling	
EPA Registration Number	2596-84-89459
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	Do Not Let Children Play With This Collar

Zodiac Flea & Tick Collar for Dogs

Safety Data Sheet

FIFRA Hazards to Humans and Domestic Animals	HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION: Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
FIFRA First Aid	IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. 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. IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice. Note to Physicians and Veterinarians: This product contains tetrachlorvinphos (an organophosphate) which is a cholinesterase inhibitor. Cholinergic symptoms may include salivation, miosis, incoordination, muscle fasciculation and/or weakness, vomiting and diarrhea. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine.

15.2. US State regulations

No additional information available

SECTION 16: Other information

Date of issue : 02 December 2014

Revision date : 19 April 2018

SDS US (GHS HazCom 2012) - CGP

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.