



Vectra 3D®

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Vectra 3D®
Other means of identification : Vectra 3D® for Dogs and Puppies 5-10 lbs. and over 8 weeks of age
Vectra 3D® for Dogs and Puppies 11-20 lbs and over 8 weeks of age
Vectra 3D® for Dogs and Puppies 21-55 lbs and over 8 weeks of age
Vectra 3D® for Dogs and Puppies 56-95 lbs
Vectra 3D® for Dogs and Puppies over 95 lbs
EPA Registration No. : 83399-6

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Control of fleas, ticks, mosquitoes, sand flies, mites and biting and sucking lice on dogs.

1.3. Details of the supplier of the safety data sheet

Ceva Animal Health, LLC
8735 Rosehill Road, Suite 300
Lenexa, KS 66215

1.4. Emergency telephone number

Emergency number : Chemtrec 1 800 424 9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

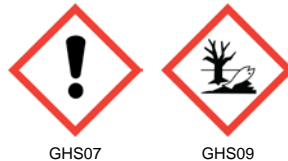
Classification (GHS-US)

Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Inhalation) H332
Skin Sens. 1 H317
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H302+H332 - Harmful if swallowed or if inhaled
H317 - May cause an allergic skin reaction
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (GHS-US) : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P272 - Contaminated work clothing must not be allowed out of the workplace
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P312 - If swallowed: Call a poison center/doctor/... if you feel unwell
P302 + P352 - If on skin: Wash with plenty of water/...
P304 + P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P312 - Call a poison center/doctor if you feel unwell
P321 - Specific treatment (see label)
P330 - Rinse mouth
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P362 + P364 - Take off contaminated clothing and wash it before reuse
P391 - Collect spillage
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Permethrin	(CAS No) 52645-53-1	35 - 37	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1-Methyl-2-nitro-3-[(3-tetrahydrofuryl)methyl]guanidine	(CAS No) 165252-70-0	4.7 - 5.2	Acute Tox. 4 (Oral), H302 Eye Irrit. 2B, H320
2-[1-Methyl-2-(4-phenoxyphenoxy)ethoxy]pyridine	(CAS No) 95737-68-1	0.4 - 0.48	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Move to fresh air, if breathing is difficult give oxygen. Contact a physician if irritation develops.
First-aid measures after skin contact	: Take off contaminated clothing, rinse effected area with plenty of water for 15-20 minutes. Wash clothing and shoes before reuse. Contact a physician if irritation develops.
First-aid measures after eye contact	: Hold eye(s) open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and continue rinsing. Call a poison control center or doctor for treatment advice. Get medical attention if irritation develops or persists.
First-aid measures after ingestion	: Contact a physician or Poison Control Center. Give water to help dilute. Avoid alcohol. If, ingested, do not induce vomiting, unless instructed by doctor or medical personnel. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: Inhalation exposure is unlikely when product is used as directed.
Symptoms/injuries after skin contact	: May cause mild skin irritation after prolonged contact with skin. Paraesthesia (a tingling sensation on the skin) may result from synthetic pyrethroid contact with the skin. (Paraesthesia will generally subside after 24 hours without treatment.)
Symptoms/injuries after eye contact	: Contact with eyes may cause irritation resulting in reddening, tearing or stinging. Avoid contact with eyes and skin or clothing. Wash thoroughly with soap and water after use.
Symptoms/injuries after ingestion	: Not considered toxic to humans. Symptoms after accidental ingestion may include; gastrointestinal discomfort, diarrhea, nausea and vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water, Foam, Carbon Dioxide, Dry Chemical
Unsuitable extinguishing media	: None.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: None
Explosion hazard	: None known.

5.3. Advice for firefighters

Protection during firefighting	: Firefighters should wear full protective gear.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Stop the flow of material, if this is without risk.
Methods for cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Absorbents and other materials contaminated by the spill should be collected for proper disposal. Do not allow spilled material and or wash water to enter sewers, surface water, or ground water. Place in an approved container and dispose in accordance with local, state and federal regulations.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Product packaged in single dose pipettes. Pipette should only be opened at time of treatment.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Avoid extreme heating and freezing. Optimum storage temperatures 32°F to 95°F. Do not store opened and unused pipettes. Store in a cool dry place, in original container, out of the reach of children. Store separate from food products. Keep away from heat, sparks and open flame.

7.3. Specific end use(s)

Control of fleas, ticks, mosquitoes, sand flies, mites and biting and sucking lice on dogs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls	: None required under normal product handling conditions.
Hand protection	: Avoid unnecessary contact with skin. If handling large quantities/volumes use permeation resistant gloves, footwear and clothing as practical.
Eye protection	: Avoid contact with eyes. If handling large quantities/volumes use chemical safety goggles or glasses.
Skin and body protection	: Wear suitable working clothes.
Respiratory protection	: None required under normal product handling conditions. Use local and general exhaust ventilation to control levels of exposure when handling large quantities of material.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear
Color	: Light Yellow
Odor	: Mild Furan
Odor threshold	: No data available
pH	: 5.88 at 1% w/w
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: >233°F (112°C)

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Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity	: 9.171 lb/gal @25°C
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity	: 13 cps@ 21.5°C
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

Temperature extremes, flames and sparks

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known, other than carbon oxides. Thermal release of large quantities may lead to release of irritating gases and vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Harmful if inhaled.

Permethrin (52645-53-1)	
LD50 oral rat	220 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 0.69 mg/l/4h
ATE US (oral)	220.00000000 mg/kg body weight
ATE US (gases)	4500.00000000 ppmV/4h
ATE US (vapors)	11.00000000 mg/l/4h
ATE US (dust, mist)	1.50000000 mg/l/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Permethrin (52645-53-1)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified

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Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Permethrin (52645-53-1)	
LC50 fish 1	0.008 - 0.03 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	0.001 - 0.009 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Permethrin (52645-53-1)	
Log Pow	6.5

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

In accordance with DOT

Not a dangerous good as defined in transport regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

Permethrin (52645-53-1)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 313 - Emission Reporting	1.0 %

15.2. US State regulations

Permethrin (52645-53-1)	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	

SECTION 16: Other information

Full text of H-phrases:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Skin Sens. 1	Skin sensitization Category 1
H301	Toxic if swallowed
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H320	Causes eye irritation

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H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product