

# SAFETY DATA SHEET



## Beetle Shield 6

Version 1.1      Revision Date: 10/08/2020      SDS Number: 122000009166      Date of last issue: 06/23/2020  
Date of first issue: 06/23/2020

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### SECTION 1. IDENTIFICATION

#### Product information

Product Name : Beetle Shield 6  
SDS Number : 122000009166

Use : Pesticide

#### Company

Elanco US Inc.  
2500 Innovation Way  
Greenfield, IN 46140  
USA  
+1-877-Elanco1(+1-877-3526261)  
elanco\_sds@elanco.com

**In case of emergency:** CHEMTREC International: +1 703-527-3887 (24 hours)

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with 29 CFR 1910.1200

Not a dangerous substance / mixture according to GHS.

#### GHS label elements

Not a dangerous substance / mixture according to GHS.

#### Other hazards

May form explosive dust-air mixture during processing, handling or other means.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Tetrachlorvinphos	22248-79-9	6

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### SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

If inhaled : Not an expected entry route.

In case of skin contact : No hazards which require special first aid measures.

In case of eye contact : Flush eyes with water as a precaution.

If swallowed : In case of accidental ingestion, contact your regional poison center or physician immediately.

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Most important symptoms and effects, both acute and delayed : No information available.

Notes to physician : No information available.

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### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : None known.

Specific hazards during fire-fighting : Fire may cause evolution of:  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)

Dust can form an explosive mixture in air.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

Dust/air-mixtures are explosive at intense warming.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid breathing dust.  
Flush the area with water to remove any residue. Contain any washwaters. Do not allow washwaters to contaminate surface waters and do not flush to sewer systems.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

For small spills, absorb on absorbent material, sweep up and place in an approved chemical container.

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge.

Advice on safe handling : Avoid dust formation.  
Use with local exhaust ventilation.  
Avoid contact with skin, eyes and clothing.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Calcium carbonate	471-34-1	TWA (Respirable)	5 mg/m <sup>3</sup> (Calcium carbonate)	NIOSH REL
		TWA (Respirable)	5 mg/m <sup>3</sup> (Calcium carbonate)	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup> (Calcium carbonate)	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup> (Calcium carbonate)	NIOSH REL
		TWA (Respirable)	5 mg/m <sup>3</sup> (Calcium carbonate)	NIOSH REL
		TWA (Respirable)	5 mg/m <sup>3</sup> (Calcium carbonate)	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup> (Calcium carbonate)	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup> (Calcium carbonate)	NIOSH REL

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Tetrachlorvinphos	22248-79-9	Acetylcholinesterase activity	In red blood cells	End of shift	70 % of an individual's baseline	ACGIH BEI
		Acetylcholinesterase activity	In red blood cells	End of shift	70 % of an individual's baseline	ACGIH BEI
		Butyrylcholinesterase activity	In serum or plasma	End of shift	60 % of an individual's baseline	ACGIH BEI
		Butyrylcholinesterase activity	In serum or plasma	End of shift	60 % of an individual's baseline	ACGIH BEI

#### Personal protective equipment

Respiratory protection : NIOSH approved pesticide respirator.  
 Recommended Filter type:  
 HEPA

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Hand protection  
Material : Hand protection: protective gloves for chemicals made of Baypren, nitrile rubber or PVC

Remarks : Breakthrough time not tested; dispose of immediately after contamination. Advice: The gloves should not be reused.

Eye protection : Safety glasses

Protective measures : Wear suitable protective equipment.

Hygiene measures : Wash hands and face before breaks and immediately after handling the product.  
Use protective skin cream before handling the product.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : beige, brownish

Odour : weak

pH : 8.57  
Concentration: 10 g/l

Melting point / range : ca. 3,092 °F / 1,700 °C

Boiling point/boiling range : No data available

Flash point : Not applicable

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Density : 2.8 g/cm<sup>3</sup> (68 °F / 20 °C)

Solubility(ies)  
Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

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Decomposition temperature : No data available

Viscosity  
  Viscosity, dynamic : Not applicable

  Viscosity, kinematic : Not applicable

Explosive properties : No statements available.

Oxidizing properties : No data available

Minimum ignition energy : No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available

Chemical stability : No data available

Possibility of hazardous reactions : No data available

Conditions to avoid : No data available

Incompatible materials : Strong acids  
Strong bases  
Strong oxidizing agents

Hazardous decomposition products : Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.26 mg/l

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

##### Components:

##### **Tetrachlorvinphos:**

Acute oral toxicity : LD50 (Rat): 480 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,500 mg/kg  
Assessment: The component/mixture is minimally toxic after single contact with skin.

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### Skin corrosion/irritation

**Product:**

Result : Moderate skin irritation

### Serious eye damage/eye irritation

**Product:**

Result : Mild eye irritation

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Components:**

**Tetrachlorvinphos:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.5 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.002 mg/l  
Exposure time: 48 h

### Persistence and degradability

No data available

### Bioaccumulative potential

**Components:**

**Tetrachlorvinphos:**

Partition coefficient: n-octanol/water : log Pow: 3.53

### Mobility in soil

No data available

### Other adverse effects

**Product:**

Additional ecological information : This product is toxic to fish and aquatic organisms. Do not apply directly to water, or surface/ground water exchange or intertidal areas below the mean high water mark.  
Toxic to birds.  
Do not contaminate surface or ground water by cleaning equipment or disposing of wash water.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : If discarded in its purchased form, this product would not be a

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hazardous waste either by listing or by characteristic.

However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### IATA-DGR

UN/ID No. : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TETRACHLORVINPHOS)  
Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes

##### IMDG-Code

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TETRACHLORVINPHOS)  
Class : 9  
Packing group : III  
Labels : 9  
Marine pollutant : yes

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

##### 49 CFR

Not regulated as a dangerous good

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### SECTION 15. REGULATORY INFORMATION

#### International Regulations

Montreal Protocol (Ozone Depleting Substances) : Not applicable  
Rotterdam Convention (Prior Informed Consent) : Not applicable  
Stockholm Convention (Persistent Organic Pollutants) : Not applicable

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**The components of this product are reported in the following inventories:**

TSCA : Not On TSCA Inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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### SECTION 16. OTHER INFORMATION

**Further information**

**Full text of other abbreviations**

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
NIOSH REL : USA. NIOSH Recommended Exposure Limits  
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek

Revision Date : 10/08/2020

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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