



**Safety Data Sheet - GHS**

**1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY**

**PRODUCT NAME:** DANITOL® Insecticide  
**PCPA REGISTRATION NUMBER:** 33817  
**PRODUCT CODE:** 69625  
**VC NUMBER(S):** VC-1541, VC-2154  
**SYNONYM(S):** None  
**PRODUCT DESCRIPTION:** Insecticide - Miticide

Danitol® is a registered trademark of Sumitomo Chemical Company, Ltd.

**MANUFACTURER/DISTRIBUTOR**  
 VALENT CANADA, INC.  
 201-230 Hanlon Creek Blvd.  
 Guelph, Ontario N1C 0A1  
 (519) 767-9262  
 www.valent.ca

**EMERGENCY TELEPHONE NUMBERS**  
 HEALTH EMERGENCY OR SPILL (24 hr):  
 (800) 682-5368  
 TRANSPORTATION (24 hr.): CHEMTREC  
 (800) 424-9300 or (202) 483-7616

**2. HAZARDS IDENTIFICATION**

**Classification** - Per WHMIS 2015

This product has been classified under the Guidelines of 2015 Health Canada requirements and the implementation of the GHS (Revision 5) under HPR and the HPA.

|  |                             |
|--|-----------------------------|
| Flammable liquids                                  | Category 4                  |
| Acute toxicity - Oral                              | Category 3                  |
| Acute toxicity - Inhalation (Dusts/Mists)          | Category 4                  |
| Serious eye damage/eye irritation                  | Category 2                  |
| Carcinogenicity                                    | Category 2                  |
| Specific target organ toxicity (single exposure)   | Category 1 (Nervous System) |
| Specific target organ toxicity (repeated exposure) | Category 2 (Nervous System) |
| Aspiration toxicity                                | Category 1                  |

**Signal Word**

**DANGER**



**Hazard statements**

- Combustible liquid
- Toxic if swallowed
- Harmful if inhaled
- Causes serious eye irritation

Suspected of causing cancer  
 Causes damage to the nervous system  
 May cause damage to the nervous system through prolonged or repeated exposure  
 May be fatal if swallowed and enters airways

### **Precautionary statements**

#### **Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignitions sources. No smoking.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Wash face, hands and any exposed skin thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Do not breathe fume/mist/vapors/spray.  
 Use only outdoors or in a well-ventilated area.

#### **Response**

In case of fire: Use CO2, dry chemical, or foam to extinguish.  
 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 Rinse mouth. DO NOT induce vomiting.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 eye irritation persists: Get medical advice/attention.  
 IF EXPOSED OR CONCERNED: Call a POISON CENTER/doctor.  
 Get medical attention if you feel unwell.

#### **Storage**

Store in a well-ventilated place.

#### **Disposal**

Dispose of in accordance with local/regional/national/international regulations.

#### **Hazards not otherwise classified (HNOC)**

Very toxic to aquatic life with long lasting effects

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical name         | CAS No.             | Weight-% |
|-----------------------|---------------------|----------|
| Fenprothrin Technical | 39515-41-8          | 30.90    |
| Agnique BL 5150       | Proprietary Mixture | 7.00     |
| Aromatic 150          | 64742-94-5          | 59.41    |

### **4. FIRST AID MEASURES**

#### **EYE CONTACT:**

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.

#### **SKIN CONTACT:**

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.

#### **INGESTION:**

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.

**INHALATION:**

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**NOTES TO PHYSICIAN:**

Effect of exposure to substance may be delayed. Medical observation is indicated.

Treatment is supportive and symptomatic. Diazepam has been recommended to reduce the CNS effects of fenpropathrin. It is reported that methocarbamol is effective as medical treatment at Fenpropathrin toxicosis in the animal study.

Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid, which can cause pneumonitis. If ingested, probable mucosal damage may contraindicate the use of gastric lavage.

**5. FIRE FIGHTING MEASURES**

**Flash point °C** 70 °C  
**Flash point °F** 158 °F  
**EXTINGUISHING MEDIA:** Water fog, carbon dioxide, foam, dry chemical

**FIRE FIGHTING INSTRUCTIONS:** Liquid evaporates and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 85 °F.

Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse.

**6. ACCIDENTAL RELEASE MEASURES**

**CONTAINMENT:** Avoid runoff into storm sewers and ditches which lead to waterways. Contain spilled liquids with dry sorbents.

**CLEANUP:** Clean up spill immediately. Absorb spill with inert material (such as dry sand or earth), then place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

**7. HANDLING AND STORAGE****HANDLING:**

Users should wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Wear protective clothing and equipment when handling this product. Goggles or protective eyewear, gloves, long-sleeved shirt, long pants, socks and shoes are appropriate. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Do not use or store near heat or open flame.

**STORAGE:**

Keep container closed when not in use. Keep container tightly closed. Keep only in original container. Do not put concentrate into food or drink containers. Do not dilute concentrate in food or drink containers. Do not store or transport near food or feed. Do not use or store in or around the home. Keep pesticide in original container only. Store in a cool, dry secure place. Store in a well-ventilated area. Protect from excessive heat. Do not store at temperatures below -1° C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE LIMITS

| Chemical name | Alberta    | British Columbia | Ontario     | Quebec     |
|---------------|------------|------------------|-------------|------------|
| Naphthalene   | Not listed | Not listed       | TWA: 10 ppm | Not listed |

**EYES & FACE:** Do not get this material in your eyes. Eye contact can be avoided by wearing safety goggles or a face shield.

**RESPIRATORY PROTECTION:** Use this material only in well ventilated areas. If ventilation is not adequate to keep airborne concentrations below recommended exposure standards, approved respiratory protection should be worn.

**SKIN & HAND PROTECTION:** Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including chemical-resistant gloves. Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves, such as Barrier Laminate, Butyl Rubber, Nitrile Rubber or Viton  $\geq$  to 14 mils, and socks plus shoes.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                       |                  |                                     |                                      |
|---------------------------------------|------------------|-------------------------------------|--------------------------------------|
| <b>Appearance:</b>                    |                  | <b>Vapor pressure</b>               |                                      |
| <b>Physical State</b>                 | Liquid           | <b>Vapor density</b>                | Not determined                       |
| <b>Color</b>                          | Clear Amber      | <b>Specific Gravity</b>             | Not determined                       |
| <b>Odor</b>                           | Hydrocarbon odor | <b>Water solubility</b>             | Emulsifiable                         |
| <b>pH</b>                             | 5.2 at 25 °C     | <b>Solubility in other solvents</b> | Soluble in common organic solvents   |
| <b>Melting point / freezing point</b> | Not determined   | <b>Partition coefficient</b>        | Not determined                       |
| <b>Boiling point / boiling range</b>  | Not determined   | <b>Autoignition temperature</b>     | Not determined                       |
| <b>Flash point</b>                    | 70 °C / 158 °F   | <b>Decomposition temperature</b>    | Not determined                       |
| <b>Evaporation rate</b>               | Not determined   | <b>Viscosity</b>                    | 5.13 cP at 20 °C<br>3.11 cP at 40 °C |
| <b>Flammability (solid, gas)</b>      | Not determined   | <b>Explosive properties</b>         | Not determined                       |
| <b>Flammability Limits in Air:</b>    |                  | <b>Oxidizing properties</b>         | Not determined                       |
| <b>Upper flammability limits</b>      | Not determined   | <b>Liquid Density</b>               | 8.2 lb/gal @ 20°C                    |
| <b>Lower flammability limits</b>      | Not determined   | <b>Bulk density</b>                 | Not determined                       |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under normal ambient conditions. Do not store at temperatures below 0°C (32°F).

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Extremes of temperature and direct sunlight.

**Incompatible materials**

Avoid contact with alkaline materials.

**Hazardous Decomposition Products**

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY:**

|   |  |                  |                |
|---|--|------------------|----------------|
| Oral Toxicity LD <sub>50</sub> (rats)       | 66 mg/kg   | EPA Tox Category | II             |
| Dermal Toxicity LD <sub>50</sub> (rabbits)  | > 2000 mg/kg   | EPA Tox Category | III            |
| Inhalation Toxicity LC <sub>50</sub> (rats) | 1.21 mg/L  | EPA Tox Category | III            |
| Eye Irritation (rabbits)                    | Severe reversible irritation;<br>resolved by day 21. | EPA Tox Category | II             |
| Skin Irritation                             | Moderately irritating;<br>resolved by day 14         | EPA Tox Category | III            |
| Skin Sensitization (guinea pigs)            | Negative   | EPA Tox Category | Not applicable |

**CARCINOGEN CLASSIFICATION**

| Chemical name | IARC Group 1 or 2 | OSHA - Select Carcinogens | NTP Carcinogen List |
|---------------|-------------------|---------------------------|---------------------|
| Naphthalene   | Group 2B          | Carcinogen                | Suspect Carcinogen  |

**TOXICITY OF FENPROPATHRIN TECHNICAL**

**SUBCHRONIC:** Fenpropathrin Technical is a nervous system toxin that causes salivation, weakness, ataxia, tremors, and convulsions in laboratory animals.

**CHRONIC/CARCINOGENICITY:** No oncogenic effects were observed at any dose level.

**DEVELOPMENTAL TOXICITY:** No developmental effects were observed in rabbits even at the highest dose of 36 mg/kg/day.

**REPRODUCTION:** The systemic NOEL in the parental generations was 40 ppm (2 mg/kg/day). The reproductive NOEL was 120 ppm (6 mg/kg/day). The NOEL for systemic toxicity in the pups was 40 ppm (2 mg/kg/day)

**MUTAGENICITY:** Fenpropathrin Technical was negative in the following studies: gene mutation, chromosomal aberration, DNA damage/repair in *Bacillus subtilis*, micronucleus assay and sister chromatid exchange.

**TOXICITY OF OTHER INGREDIENTS:**

Acute exposure to naphthalene by inhalation, ingestion, and dermal contact has been associated with hemolytic anemia, damage to the kidneys, cataracts, and, in infants, brain damage. There is limited evidence of fetal and maternal toxicity from exposure to naphthalene.

Chronic (long-term) exposure of workers and rodents to naphthalene has been reported to cause cataracts and damage to the retina. Lesions in the kidneys and thymus, signs of anemia, and reduced spleen weights have been observed in rats and mice chronically exposed via gavage. Naphthalene has been listed by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B).

**12. ECOLOGICAL INFORMATION**

**AVIAN TOXICITY:** Fenpropathrin Technical is moderately toxic to birds following acute exposures:  
 Oral LD<sub>50</sub> mallard duck: 1,089 mg/kg;  
 Dietary LC<sub>50</sub> bobwhite quail: > 10,000 ppm;  
 Dietary LC<sub>50</sub> mallard duck: 9,026 ppm.

No reproductive effects were observed in mallard ducks or bobwhite quail exposed to dietary levels of Fenpropathrin Technical. In mallard ducks, a NOEL was established at 125 ppm. In bobwhite quail, the NOEL was established at 25 ppm.

**AQUATIC ORGANISM TOXICITY:** Fenpropathrin TG is very highly toxic to freshwater organisms:

Acute Toxicity to fish:

Common Carp: LC50 (96 h) 0.015 mg/L

Rainbow Trout: LC50 (96 h) 0.00075 mg/L

Acute Toxicity to crustacea:

Daphnia magna: EC50 (48 h) 0.080 mg/L

Amphipod: LC50 (96 h) 0.0029 µg/L

Acute Toxicity to alga:

Green alga: ErC50 (0 - 72 h) > 0.59 mg/L

Diatoms: ErC50 (0 - 96 h) > 1.0 mg/L

Marine Diatom: ErC50 (0 - 96 h) 0.12 mg/L

Blue-green alga: ErC50 (0 - 96 h) > 1.0 mg/L

**OTHER NON-TARGET ORGANISM TOXICITY:**

Fenpropathrin Technical is highly toxic to bees. The acute contact 48-hour LD<sub>50</sub> for honey bees is 0.05 µg/bee. This product is highly toxic to bees or other pollinating insects exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees or other pollinating insects are foraging in the treatment area.

**OTHER ENVIRONMENTAL INFORMATION:**

This product is extremely toxic to fish and aquatic organisms and is toxic to wildlife. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below mean high water mark. Do not apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS:** Check government regulations and local authorities for approved disposal of this material. Dispose of in accordance with applicable laws and regulations.

### 14. TRANSPORTATION INFORMATION

**DOT (ground) SHIPPING NAME:** UN 3352, Pyrethroid pesticide, Liquid, toxic, n.o.s. (contains Fenpropathrin), 6.1, III

**ICAO/IATA SHIPPING NAME:** UN 3352, Pyrethroid pesticide, Liquid, toxic, n.o.s. (contains Fenpropathrin), 6.1, Marine Pollutant

**IMDG SHIPPING NAME:** UN 3352, Pyrethroid pesticide, Liquid, toxic, n.o.s. (contains Fenpropathrin), 6.1, Marine Pollutant

**REMARKS:** Flash point = 70° C

### 15. REGULATORY INFORMATION

**CANADIAN REGULATIONS**

**WHMIS Hazard Class:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all information required by the CPR.

Emergency Telephone: (800) 682-5368  
REVISION NUMBER: 2

SDS NO.: CAN-0030  
REVISION DATE: 08/12/2020

**Fenpropathrin Technical 92.0%**

EINECS Inventory List - Present

**Total hydrocarbons**

Canada DSL Inventory List - Present

EINECS Inventory List - Present

**Naphthalene**

Canada DSL Inventory List - Present

EINECS Inventory List - Present

**1,2,4-Trimethylbenzene**

Canada DSL Inventory List - Present

EINECS Inventory List - Present

**PMRA SIGNAL WORD:** Danger

**PMRA pesticide label hazard information:** Fatal or poisonous if swallowed. Severely irritating to the eye. DO NOT get in eyes. Causes skin irritation. DO NOT get on skin. Potential skin sensitizer. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

**PESTICIDE REGULATIONS:** All pesticides are governed under Pest Control Products Act (PCPA). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

**PROVINCIAL REGULATIONS:** This product did not trigger any provincial regulations.

**16. OTHER INFORMATION**

|                                  |                                   |
|----------------------------------|-----------------------------------|
| <b>REASON FOR ISSUE:</b>         | General Update                    |
| <b>SDS NO.:</b>                  | CAN-0030                          |
| <b>PCPA REGISTRATION NUMBER:</b> | 33817                             |
| <b>REVISION NUMBER:</b>          | 2                                 |
| <b>REVISION DATE:</b>            | 08/12/2020                        |
| <b>SUPERCEDES DATE:</b>          | 06/03/2017                        |
| <b>RESPONSIBLE PERSON(S):</b>    | Valent U.S.A. LLC, Corporate EH&S |

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The Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE PMRA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use.

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The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the PMRA under the authority of the *Pest Control Products Act* through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use a PMRA-registered pesticide product in any manner inconsistent with its labeling.

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