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.
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Guelph, Ontario N1C 0A1
(519) 767-9262
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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-%
Fenpropathrin 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 eyeware, 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 >= to 14 mils, and socks plus shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:		**Vapor pressure**	
Physical State	Liquid	**Vapor density**	Not determined
Color	Clear Amber	**Specific Gravity**	Not determined
Odor	Hydrocarbon odor	**Water solubility**	Emulsifiable
pH	5.2 at 25 °C	**Solubility in other solvents**	Soluble in common organic solvents
Melting point / freezing point	Not determined	**Partition coefficient**	Not determined
Boiling point / boiling range	Not determined	**Autoignition temperature**	Not determined
Flash point	70 °C / 158 °F	**Decomposition temperature**	Not determined
Evaporation rate	Not determined	**Viscosity**	5.13 cP at 20 °C 3.11 cP at 40 °C
Flammability (solid, gas)	Not determined	**Explosive properties**	Not determined
Flammability Limits in Air:		**Oxidizing properties**	Not determined
Upper flammability limits	Not determined	**Liquid Density**	8.2 lb/gal @ 20°C
Lower flammability limits	Not determined	**Bulk density**	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_{50} (rats)	66 mg/kg	EPA Tox Category	II
Dermal Toxicity LD_{50} (rabbits)	> 2000 mg/kg	EPA Tox Category	III
Inhalation Toxicity LC_{50} (rats)	1.21 mg/L	EPA Tox Category	III
Eye Irritation (rabbits)	Severe reversible irritation; resolved by day 21.	EPA Tox Category	II
Skin Irritation	Moderately irritating; 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_{50} mallard duck: 1,089 mg/kg;
Dietary LC_{50} bobwhite quail: > 10,000 ppm;
Dietary LC_{50} 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_{50} 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.

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

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

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