

SECTION 1 - PRODUCT IDENTIFICATION

Product identifier/Trade name: DISVAP V **Product code/Internal Identification:** PCP# 23029

Product use/Description: Insecticide in 4 L, 10 L and 20 L container

Product chemical name: N/Ap
Chemical family: N/Ap

MSDS preparation/review date: May 12, 2015

Supplier identifier: Vétoquinol N.-A. Inc.

2000 Chemin Georges, Lavaltrie, Qué (Canada), J5T 3S5 Tél. (450) 586-2252

Emergency phone number: 1-800 463-5060 OR (418) 656-8090 (CONTROL POISON CENTER)

1-613-996-6666 (CANUTEC)

Manufacturer identifier:Same as supplierEmergency phone number:Same as supplierWHMIS Classification:Refer to Section 15.

SECTION 2 - CHEMICAL COMPOSITION/HAZARDOUS INGREDIENTS								
Hazardous Ingredients	CAS#	% (weight)	LD ₅₀ (route, specie)	LC ₅₀ (specie)				
Pyrethrin	8003-34-7	0.1-1.0	200 mg/kg (oral, rat)	N/Av				
			300 mg/kg (dermal, rabbit)					
Piperonyl butoxide	51-03-6	0.1-1.0	6150 mg/kg (oral, rat)	N/Av				
			200 mg/kg (dermal, rabbit)					
Permetrin	52645-53-1	0.1-1.0	383 mg/kg (oral, rat)	$485 \text{ mg/m}^3/4 \text{ hours (rat)}$				
Isopropyl alcohol	67-63-0	3-7	5000 mg/kg (oral, rat)	17000 ppm 4 hours (rat)				
			12800 mg/kg (dermal, rabbit)					

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview

COMBUSTIBLE. IRRITANT. Causes moderate eye irritations. Mild central nervous system depressant. High vapour concentrations may cause headache, nausea, dizziness, drowsiness, incoordination, and confusion. May be irritating to the respiratory tract and skin.

POTENTIAL HEALTH EFFECTS (for more details, refer to Section 11)

Primary entry route(s): Skin, eye, ingestion and inhalation. **Effects of short-term (acute) and long-term (chronic) exposure:**

Inhalation:

May cause central nervous system (CNS) depression. May cause headache, nausea, dizziness, vomiting and incoordination. May be slightly irritating to the respiratory tract.

Skin:

May cause a slight irritation. Long-term or repeated contact may result in dermatitis (dry, red, cracked skin).

Eve: Causes moderate eye irritations (redness and tearing).

Ingestion: May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

SECTION 4 - FIRST AID MEASURES

Inhalation:

Remove source of contamination or have victim move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention immediately.

Skin contact:

Flush contaminated area with lukewarm, gently running water for at least 5 minutes or until the chemical is removed. Under running water, remove contaminated clothing. If irritation persists, obtain medical advice. Completely decontaminate clothing before reuse or discard.

Eve contact:

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes, or until the chemical is removed, while holding the eyelid(s) open. Obtain medical attention immediately

Ingestion:

NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink two glasses of water. Obtain medical attention immediately.



SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability:

COMBUSTIBLE. May cause a fire at temperatures above the flash point.

Auto-ignition temperature: N/Av

Suitable extinguishing media: Carbon dioxide, dry chemical powder and appropriate foam.

Special fire-fighting procedures/equipment:

During a fire, irritating/toxic smoke and fumes may be generated. Vapours can accumulate in confined spaces, resulting in a toxicity and flammability hazard. A self-contained breathing apparatus is required for fire-fighting personnel to protect themselves from toxic products produced during the combustion. Closed containers may explode with the pressure building from the heat. Use water to cool fire exposed containers and prevent this situation.

Hazardous combustion products:

Carbon monoxide, carbon dioxide and other irritant gases, which may include toxic constituents.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Remove all ignition sources. Remove or isolate flammable and combustible materials. Wear adequate personal protective equipment (See Section 8). Ventilate area.

Spill response/Cleanup:

Stop the flow if it can be done safely. Keep materials which can burn away from spilled material. Prevent material from entering waterways, sewers or confined spaces. SMALL SPILLS: Soak up spill with absorbent material which does not react with spilled chemical. Put material in suitable, covered, labelled containers. Flush area with water. LARGE SPILLS: Contain spill with earth, sand, or absorbent material which does not react with spilled material. Place in suitable, covered, labelled containers. Contact fire and emergency services and supplier for advice. Contaminated absorbent material may pose the same hazards as the spilled product.

Environmental precautions:

For large spills, notify government occupational health and safety and environmental authorities. Confine spill, preventing it from entering sewer lines or waterways. Dispose of as per local, state and federal regulations.

SECTION 7 - HANDLING AND STORAGE

Safe handling procedures:

Before handling, it is very important that engineering controls are operating and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Do not use near welding operations, flames or hot surfaces. Ensure proper ventilation after sealed area has been treated. Avoid generating vapours or mists. Inspect containers for leaks before handling. Label containers appropriately. Keep containers closed when not in use. Assume that empty containers contain residues which are hazardous. Do not use with incompatible materials such as strong oxidizers.

Storage requirements:

Store in a cool, well-ventilated area, out of direct sunlight and away from heat and ignition sources. Keep storage area clear of ignition sources. Store away from incompatible materials such as strong oxidizers. Inspect all incoming containers to make sure they are properly labelled and not damaged. Store in suitable, labelled containers. Keep containers tightly closed. Empty containers may contain hazardous residues. Keep absorbents for leaks and spills readily available. Storage facilities should be made of fire resistant materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks.



SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls:

Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits.

Respiratory Protection:

Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirator if the exposure limits are unknown.

Protective Clothing/Equipment:

Wear chemically protective gloves (impervious), boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective chemical safety goggles or a face shield. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area. Separate contaminated work clothes from street clothes. Launder before reuse.

Comments:

Avoid contact with skin and eyes. Avoid breathing vapours or mists. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state, colour and odour: Milky emulsion liquid with citronella odor.

Odour threshold: N/Av

pH: N/Av

Melting/freezing point: N/Av

Coefficient of oil/water distribution: N/Av

Specific gravity or density (water = 1, at 4° C): 0.99 g/mL

Boiling point: N/Av

Vapour pressure: N/Av

Solubility in water: Emulsifiable

Vapour density (Air = 1): Heavier than air.

Evaporation rate (n-Butyl acetate = 1): N/Av % volatile by volume: N/Av

SECTION 10 - REACTIVITY AND STABILITY DATA

Stability and reactivity: Stable at room temperature, in normal handling and storage conditions.

Polymerisation: Hazardous polymerisation will not occur.

Conditions to avoid: Avoid STRONG OXIDIZERS, STRONG ACIDS, etc... Keep away from ignition sources.

Materials to avoid: Avoid STRONG OXIDIZERS, STRONG ACIDS, ...

Hazardous decomposition products: None reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

Exposure limits: N/Av for the	ne product.				
Ingredient	OSH	OSHA PEL		H TLV	Other exposure limits
	TWA	STEL	TWA	STEL	
Permetrin	N/Av	N/Av	N/Av	N/Av	N/Av
Pyrethrin	5 mg/m^3	N/Av	5 mg/m^3	N/Av	N/Av
Isopropyl alcohol	400 ppm	500 ppm	200 ppm	400 ppm	N/Av
Piperonyl butoxide	N/Av	N/Av	N/Av	N/Av	N/Av

For more details, refer to Section 3.

Carcinogenicity: No ingredient listed by IARC, ACGIH, NTP or OSHA as a carcinogen.

Teratogenicity, mutagenicity, other reproductive effects: N/Av

Skin sensitization: N/Av
Respiratory tract sensitization: N/Av

Synergistic materials: Isopropyl alcohol may enhance the toxicity of other chemicals.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental effects: N/Av

Important environmental characteristics: N/Av

Aquatic toxicity: N/Av



SECTION 13 - WASTE DISPOSAL

Handling and storage conditions for disposal:

Store material for disposal as indicated in Handling and Storage (Section 7).

Methods of disposal:

Review federal, provincial and local government requirements prior to disposal. Disposal by controlled incineration or secure landfill may be acceptable.

SECTION 14 - TRANSPORTATION INFORMATION

Transportation of Dangerous Goods (TDG):

TDG Classification: FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol); Class 3; UN1993; PG III

Special case: Product can also be shipped in a 450 L container or less as NOT REGULATED according to TDG

Section 1.33.

SECTION 15 - REGULATORY INFORMATION

In Canada

WHMIS information:

Product is regulated according to the Pest Control Act and is exempted from the Controlled Product Regulation (CPR) in Canada.

Hazardous Materials Identification System (HMIS):

HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0 PERSONAL PROTECTION: Section 8.

HAZARD: 0 Minimal 1 Slight 2 Moderate 3 Serious 4 Severe

National Fire Protection Association (NFPA):

HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0 PERSONAL PROTECTION: Section 8.

HAZARD: 0 Minimal 1 Slight 2 Moderate 3 Serious 4 Severe

SECTION 16 - OTHER INFORMATION

Prepared by: NSS ENTREPRISE INC. for Vétoquinol **Telephone number:** (514) 239-8785 or (450) 586-2252

References:

- 1. Manufacturer'/suppliers' MSDS.
- 2. Documents provided by the «Répertoire toxicologique de la CSST».
- 3. Canadian Centre for Occupational Health and Safety, CHEMpendium/RTECS.

Abbreviations:

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstract Service

CFR Code of Federal Regulations (Transportation in U.S.A.)

DOT Department of Transport (U.S.A.)

DSL Domestic Substance List

IARC International Agency for Research on Cancer

LC Lethal concentration LD Lethal Dosage

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program (U.S.A.)

OSHA Occupational Safety and Health Administration (U.S.A.)

PEL Permissible Exposure Limit
STEL Short-term Exposure Limit
TLV Threshold Limit Value
TSCA Toxic Substances Control Act
TWA Time Weighted Average

USEPA United States Environmental Protection Agency
WHMIS Workplace Hazardous Materials Information System

End of the MSDS