



# MATERIAL SAFETY DATA SHEET

REGISTRATION # 18074

PAGE: 1 OF 3

REVISION DATE: NOVEMBER 1, 2017

24 HOUR EMERGENCY PHONE - CHEMTREC 1-800-424-9300

## 1- CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME ; Puroguard Liquid Insecticide PY-42  
CHEMICAL FAMILY: Pyrethroid Mixture  
ACTIVE INGREDIENTS: Pyrethrins - Piperonyl Butoxide  
MANUFACTURER : **Puroguard Insecticides Ltd.**  
264, Querbes, Vaudreuil- Dorion, QC. J7V1J7  
Tel./FAX: 450-455-7402

## 2- HAZARDS IDENTIFICATION



(GHS-07)

### CAUTION - POTENTIAL HEALTH EFFECTS

**EYES** Causes moderate eye irritation. May cause pain, tearing and blurred vision.  
**SKIN** Can be harmful, if absorbed through skin. Can cause a burning sensation on more sensitive areas (face, eyes, mouth). Prolonged or repeated exposure can cause irritation and reddening of the skin, possibly progressing into dermatitis.  
**INGESTION:** Can cause stomach irritation, resulting in nausea, cramps, and vomiting. Can cause nervous system disorders, such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness.  
**INHALATION:** Excessive inhalation can cause nasal and respiratory irritation, nausea and nervous disorders such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness.  
**CHRONIC EFFECTS:** None known

## 3- COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT ( S )	CAS #	% BY WT.
PYRETHRINS;	8003-34-7	0.10
PIPERONYL BUTOXIDE:	000051-03-06	1.00
DEIONIZED WATER:		96.65

## 4- FIRST AID MEASURES

**EYES:** Immediately flush with large amounts of water for at least 15 minutes. If irritation persists, get medical attention.  
**SKIN** Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, get medical attention. Wash clothing separately before reuse.  
**INHALATION:** Remove affected person to fresh air. Give oxygen, if necessary, if breathing has stopped administer artificial respiration and seek medical attention immediately.  
**INGESTION:** If swallowed, drink 1 or 2 glasses of water. Do not induce vomiting or give anything by mouth to an unconscious person. Seek medical attention.



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PAGE: 2 OF 3

Puroguard PY -42

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## 5- FIRE FIGHTING MEASURES

**FLAMMABLE PROPERTIES:** **FLASH POINT:** 125 F  
**FLAMMABLE LIMITS:** Not established  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None  
**EXTINGUISHING MEDIA:** Foam, carbon dioxide, or dry chemical.  
**FIRE FIGHTING INSTRUCTIONS:** Treat as a oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream. Contain the run-off, if possible, for proper disposal.

## 6- ACCIDENTAL RELEASE MEASURES:

**SPILLS OR LEAKS:** Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.  
**WASTE DISPOSAL METHOD:** Contaminated absorbent and wash water should be disposed of according to local state and federal regulations.

## 7- HANDLING AND STORAGE

**STORING** Storage temperature (optimum): Above 0° C  
**AVERAGE LIFE SHELF:** Greater than one year  
**SPECIAL SENSITIVITY (HEAT, LIGHT, MOISTURE):** Protect from freezing.  
**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**  
Store in a cool, dry, lockable storage area. Keep away from heat, ignition sources and away from strong acids, bases and oxidizers. Emptied containers may retain product residues.

## 8- EXPOSURE CONTROLS/ PERSONAL PROTECTION

**EXPOSURE LIMITS:** not established by OSHA or ACGIH  
**ENGINEERING CONTROLS:** Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.  
**RESPIRATORY PROTECTION:** Wear a NIOSH approved organic vapor respirator in absence of proper ventilation.  
**SKIN PROTECTION:** Wear rubber gloves and protective clothing.  
**EYE PROTECTION:** Wear an OSHA-approved safety glasses, goggles or face shield.

## 9- PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Light amber liquid  
**ODOR:** Characteristic Dursban odor  
**PHYSICAL STATE:** Liquid  
**VAPOR PRESSURE:** Not established  
**VAPOR DENSITY:** Not established  
**BOILING POINT:** Not established  
**MELTING POINT:** Not applicable  
**SOLUBILITY IN WATER:** Completely miscible with water  
**SPECIFIC GRAVITY:** 0.992  
**pH:** 7.2  
**VISCOSITY:** 7,0 cps at 23 C

REFRACTIVE INDEX: 1,3438 AT 25 c



## MATERIAL SAFETY DATA SHEET

PAGE: 3 OF 3

Puroguard PY -42

REVISION DATE: NOVEMBER 1, 2017

### 10 STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable  
**INCOMPATIBILITY:** Not compatible with strong acids or bases. Not compatible with strong oxidizers.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Not applicable  
**HAZARDOUS POLYMERIZATION:** Will not occur

### 11- TOXICOLOGICAL INFORMATION

#### ACUTE STUDIES:

##### INGESTION:

Acute Oral LD50 (rat) 3,38 gm /kg

##### SKIN:

Acute Dermal LD50 (rat) 2,0 gm /kg

Primary skin irritation (rabbit): 0.04

##### INHALATION:

Acute Inhalation LC50 (rat) 6,33 mg/L

##### EYE:

Primary eye irritation (rabbit): Produced conjunctival irritation which cleared at day 7. No corneal opacity or iritis was observed during the study.

**CHRONIC: CARCINOGENICITY:** None of the components present in this material at concentrations equal to or greater than 0,1% are listed by IARC, OSHA or ACGIH as being carcinogens.

### 16- OTHER INFORMATION

**HMIS RATINGS:**

Health	1
Flammability	2
Reactivity	1

The data contained herein is based on information currently available from MGK Company, and believed to be factual opinions expressed to be those of qualified experts; however, this data is not to be taken as a warranty or representation for which Puroguard Company assumes legal responsibility.