



# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 29.07.2013

Revision: 29.07.2013

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** RUDCHEM PY FOG

**Recommended Use of the Chemical and Restriction on Use:** Broad spectrum insecticide

**Details of Manufacturer or Importer:**

C.Rudduck Pty Ltd  
2/247 Ingles Street  
Port Melbourne VIC 3207

**Phone Number:** 03 9676 4444

**Emergency telephone number:** 0418 355 009

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

**Label Elements**

**Signal Word** Danger

**Hazard Statements**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

**Precautionary Statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P240 Ground/bond container and receiving equipment.  
P233 Keep container tightly closed.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P331 Do NOT induce vomiting.  
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.  
P405 Store locked up.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/national regulations.

## 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 2)



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**Product Name: RUDCHEM PY FOG**

(Contd. of page 1)

Hazardous Components:		
8042-47-5	White mineral oil, petroleum ⚠ Asp. Tox. 1, H304	75%
51-03-6	1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl- ⚠ Acute Tox. 3, H331; ⚠ Aquatic Chronic 2, H411; Acute Tox. 5, H313	1-2%
8003-34-7	Pyrethrins and Pyrethroids ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; ⚠ Acute Tox. 4, H332	0-1%
64742-88-7	Solvent naphtha (petroleum), medium aliph. ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304	To 100%

## 4. FIRST AID MEASURES

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Give the victim water to rinse out mouth and a glass or two to drink. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Water, water fog, foam, carbon dioxide (CO<sub>2</sub>) or dry chemical.

**Specific Hazards Arising from the Chemical:**

Highly flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

**Special Protective Equipment and Precautions for Fire Fighters:**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Use only non-sparking tools and explosion proof equipment.

(Contd. on page 3)



# SAFETY DATA SHEET

According to Safe Work Australia

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Revision: 29.07.2013

Product Name: RUDCHEM PY FOG

(Contd. of page 2)

## 7 . HANDLING AND STORAGE

### Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use in a well-ventilated area. Use spark-free tools when handling.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

### Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed. Protect from direct sunlight, heat/sparks/open flames/hot surfaces. Keep away from strong oxidising agents.

## 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure Standards (Safe Work Australia):

#### 8003-34-7 Pyrethrins and Pyrethroids

NES	TWA: 5 mg/m <sup>3</sup>
	Sen

Oil mist:

TWA: 5 mg/m<sup>3</sup>

### Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation. Use explosion-proof ventilating equipment.

### Personal Protective Equipment (PPE):

#### Respiratory Protection:

Respiratory protection is not necessary if the ventilation is adequate. Avoid working in and breathing spray mist. See Australian Standards AS/NZS 1715 and 1716 for more information.

#### Skin Protection:

Protective gloves and protective clothing. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

#### Eye and Face Protection:

Safety glasses with top and side shields or goggles. See Australian Standards AS/NZS 1336 and 1337 for more information.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

### Appearance:

Form:	Liquid
Colour:	Amber coloured
Odour:	Insecticidal odour
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	185-215 °C
Flash Point:	50-354 °C
Flammability:	Highly flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available

(Contd. on page 4)



# SAFETY DATA SHEET

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Revision: 29.07.2013

**Product Name: RUDCHEM PY FOG**

(Contd. of page 3)

**Explosion Limits:****Lower:** No information available**Upper:** No information available**Vapour Pressure at 20 °C:** 0.14 kPa**Relative Density:** No information available**Vapour Density:** No information available**Evaporation Rate:** No information available**Solubility in Water:** Immiscible**Partition Coefficient (n-octanol/water):** Not determined.**Viscosity:** No information available**% Volatiles by Volume:** 98 %**VOC:** No information available**10 . STABILITY AND REACTIVITY****Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:**

Heat, sparks, open flames, hot surfaces and direct sunlight. Do not puncture or incinerate can. Do not spray uninterrupted for more than 10 seconds in confined spaces.

**Incompatible Materials:** Oxidisers**Hazardous Decomposition Products:** Toxic fumes of carbon monoxide (CO).**11 . TOXICOLOGICAL INFORMATION****Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****64742-88-7 Solvent naphtha (petroleum), medium aliph.**Oral LD<sub>50</sub> >6500 mg/kg (rat)Dermal LD<sub>50</sub> >3000 mg/kg (rab)Inhalation LC<sub>50</sub>/4 h >14 mg/l (rat)**51-03-6 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-**Oral LD<sub>50</sub> 3800 mg/kg (mouse)

7181 mg/kg (rat)

7500 mg/kg (rabbit)

Dermal LD<sub>50</sub> >2000 mg/kg (rabbit)Inhalation LC<sub>50</sub>/4 h >5.9 mg/l (rat)**8003-34-7 Pyrethrins and Pyrethroids**Oral LD<sub>50</sub> 200 mg/kg mg/kg (rat)Dermal LD<sub>50</sub> 300 mg/kg mg/kg (rabbit)**8042-47-5 White mineral oil, petroleum**Oral LD<sub>50</sub> >5000 mg/kg (rat)**Acute Health Effects****Inhalation:**

Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and incoordination.

**Skin:** May cause skin irritation.

(Contd. on page 5)



# SAFETY DATA SHEET

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Revision: 29.07.2013

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(Contd. of page 4)

**Eye:** May cause eye irritation.**Ingestion:**

Considered an unlikely route of entry. Ingestion may result in nausea, pain, vomiting. Vomit entering the lungs by aspiration may cause potentially lethal chemical pneumonitis.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:**

Piperonyl butoxide is classified by IARC as a Group 3 - Not classifiable as to its carcinogenicity to humans.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** May be fatal if swallowed and enters airways.**Chronic Health Effects:**

Prolonged exposure to high concentrations may lead to narcosis, unconsciousness, even coma and possible death. Prolonged or continuous skin contact with the liquid may cause defatting with drying, cracking, irritation and dermatitis. Repeated or prolonged eye exposure to irritants may cause conjunctivitis.

Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes.

**Existing Conditions Aggravated by Exposure:** No information available

## 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:**

Fish (Fathead Minnow) Early life stage MATC &gt;0.18 mg/L - &lt;0.42 mg/L

Invertebrate (Daphnia Magna) life cycle MATC &gt;30 µg/L - &lt;47 µg/L

Piperonyl Butoxide is highly toxic to fish and aquatic organisms.

Honeybee Acute &gt;25 µg/bee

**Aquatic toxicity:****51-03-6 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-**LC<sub>50</sub> >5620 ppm (bobwhite quail) (5 day dietary)

&gt;5620 ppm (mallard) (5 day dietary)

LC<sub>50</sub>/48 h 0.51 ppm (daphnia)LC<sub>50</sub>/96 h 5.37 ppm (bluegill)

6.12 ppm (rainbow trout)

LD<sub>50</sub> >2250 mg/kg (bobwhite quail)**Persistence and Degradability:** No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:** No data available on finished product.

## 13 . DISPOSAL CONSIDERATIONS

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.

(Contd. on page 6)



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(Contd. of page 5)

**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

**14 . TRANSPORT INFORMATION**

<b>UN Number</b> ADG, IMDG, IATA	UN1993
<b>Proper Shipping Name</b> ADG, IMDG, IATA	FLAMMABLE LIQUID, N.O.S.
<b>Dangerous Goods Class</b> ADG Class:	3 Flammable liquids.
<b>Packing Group:</b> ADG, IMDG, IATA	III
<b>Hazchem Code:</b>	•3Y
<b>Special Provisions:</b>	223, 274
<b>Limited Quantities:</b>	5L
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P001, IBC03, LP01
<b>Packagings &amp; IBCs - Special Packing Provisions:</b>	Not applicable
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T4
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	TP1, TP29

**15 . REGULATORY INFORMATION****Australian Inventory of Chemical Substances:**

8042-47-5	White mineral oil, petroleum
64742-88-7	Solvent naphtha (petroleum), medium aliph.
51-03-6	1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-
8003-34-7	Pyrethrins and Pyrethroids

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Poisons Schedule: 5

**16 . OTHER INFORMATION****Creation Date:** 29.07.2013**Last Revision of MSDS:** Rev 1.0 (06/08/2008)**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
VOC: Volatile Organic Compounds  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
IARC: International Agency for Research on Cancer  
STEL: Short Term Exposure Limit  
TWA: Time Weighted Average

(Contd. on page 7)



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**Product Name: RUDCHEM PY FOG**

(Contd. of page 6)

## **Disclaimer**

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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