

## 1 Identification

**Product Name:** RUDCHEM PY FOG

**Other Means of Identification:** Mixture

**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 Hazard(s) Identification

### Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



flame

Flammable Liquids 3 H226 Flammable liquid and vapour.



health hazard

STOT RE 1 H372 Causes damage to the central nervous system through prolonged or repeated exposure.

Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways.

Aquatic Acute 3 H402 Harmful to aquatic life.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

**Signal Word** Danger

### Hazard Statements

H226 Flammable liquid and vapour.

H372 Causes damage to the central nervous system through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

### Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

# Safety Data Sheet

## according to WHS Regulations

Printing date 09.05.2018

Revision: 09.05.2018

**Product Name: RUDCHEM PY FOG**

(Contd. of page 1)

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P314	Get medical advice/attention if you feel unwell.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use to extinguish: CO <sub>2</sub> , powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
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.

#### Hazardous Components:

CAS: 64742-88-7	Solvent naphtha (petroleum), medium aliph. ⚠ Flammable Liquids 3, H226; ⚠ STOT RE 1, H372; ⚠ Aspiration Hazard 1, H304	<25%
CAS: 51-03-6	Piperonyl butoxide ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Flammable Liquids 4, H227	1 - 2%
CAS: 8003-34-7	Pyrethrins and Pyrethroids ⚠ Acute Toxicity (Oral) 3, H301; ⚠ Acute Toxicity (Dermal) 3, H311; ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Acute Toxicity (Inhalation) 4, H332	0 - 1%

### 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.

#### Symptoms Caused by Exposure:

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 Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: Considered an unlikely route of entry. Ingestion may result in nausea, pain, vomiting. May be fatal if swallowed and enters airways. Product entering the lungs may cause chemical pneumonitis.

### 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Water fog, foam, dry chemical or carbon dioxide.

#### Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and other toxic fumes.

Product is flammable. Vapour forms an explosive mixture with air. Vapours may travel considerable distances

(Contd. on page 3)

# Safety Data Sheet

## according to WHS Regulations

Printing date 09.05.2018

Revision: 09.05.2018

**Product Name: RUDCHEM PY FOG**

(Contd. of page 2)

to a source of ignition where they can ignite, flashback, or explode.  
Closed containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

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

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### 6 Accidental Release Measures

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

Wear 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.

### 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. Do not spray uninterrupted for more than 10 seconds in confined spaces. Use in a well-ventilated area. Use spark-free tools when handling. Do not puncture or incinerate can.

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 heat, sparks, open flames, hot surfaces and direct sunlight. Keep away from oxidising agents.

### 8 Exposure Controls and Personal Protection

**Exposure Standards:****CAS: 8003-34-7 Pyrethrins and Pyrethroids**

WES	TWA: 5 mg/m <sup>3</sup> Sen
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**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.

**Respiratory Protection:**

(Contd. on page 4)

# Safety Data Sheet

## according to WHS Regulations

Printing date 09.05.2018

Revision: 09.05.2018

**Product Name: RUDCHEM PY FOG**

(Contd. of page 3)

Respiratory protection is not necessary if the ventilation is adequate. Avoid working in and breathing spray mist.

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Protective gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

## 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Amber coloured
<b>Odour:</b>	Insecticidal odour
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	No information available
<b>Melting point/freezing point:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	185 - 215 °C
<b>Flash Point:</b>	50 - 354 °C
<b>Flammability:</b>	Flammable.
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure at 20 °C:</b>	0.14 kPa
<b>Density:</b>	Not determined.
<b>Relative Density:</b>	No information available
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Immiscible
<b>Partition Coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	No information available
<b>% Volatiles by Volume:</b>	98 %
<b>VOC:</b>	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.

(Contd. on page 5)

# Safety Data Sheet

according to WHS Regulations

Printing date 09.05.2018

Revision: 09.05.2018

**Product Name: RUDCHEM PY FOG**

(Contd. of page 4)

**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:** Oxidising agents.

**Hazardous Decomposition Products:** Oxides of carbon and other toxic fumes.

## 11 Toxicological Information

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****CAS: 51-03-6 Piperonyl butoxide**

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)

**CAS: 8042-47-5 White mineral oil, petroleum**

Oral	LD <sub>50</sub>	>5000 mg/kg (rat)
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**CAS: 64742-88-7 Solvent naphtha (petroleum), medium aliph.**

Oral	LD <sub>50</sub>	>6,500 mg/kg (rat)
Dermal	LD <sub>50</sub>	>3,000 mg/kg (rabbit)
Inhalation	LC <sub>50</sub> /4 h	>14 mg/l (rat)

**CAS: 8003-34-7 Pyrethrins and Pyrethroids**

Oral	LD <sub>50</sub>	200 mg/kg (rat)
Dermal	LD <sub>50</sub>	300 mg/kg (rabbit)

**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.

**Eye:** May cause eye irritation.

**Ingestion:**

Considered an unlikely route of entry. Ingestion may result in nausea, pain, vomiting. May be fatal if swallowed and enters airways. Product entering the lungs may cause 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 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.

(Contd. on page 6)

# Safety Data Sheet

## according to WHS Regulations

Printing date 09.05.2018

Revision: 09.05.2018

**Product Name: RUDCHEM PY FOG**

(Contd. of page 5)

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

Causes damage to the central nervous system through prolonged or repeated exposure.

**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**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for piperonyl butoxide for a human is 0.1 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 16 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

The Australian ADI for pyrethrins (pyrethrum extracts) for a human is 0.04 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 4 mg/kg/day.

(Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2018).

## 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

Honeybee Acute &gt;25 µg/bee

**Aquatic toxicity:**

Harmful to aquatic life with long lasting effects.

**CAS: 64742-88-7 Solvent naphtha (petroleum), medium aliph.**EC<sub>50</sub>/48 h 100 mg/l (daphnia)EC<sub>50</sub>/72 h 450 mg/l (senastrum capricornutum)LC<sub>50</sub>/96 h 800 mg/l (fathead minnow)**CAS: 51-03-6 Piperonyl butoxide**LD<sub>50</sub> >2,250 mg/kg (bobwhite quail)LC<sub>50</sub>/96 h 5.37 ppm (bluegill)

6.12 ppm (rainbow trout)

LC<sub>50</sub>/48 h 0.51 ppm (daphnia)LC<sub>50</sub> >5,620 ppm (bobwhite quail) (5 day dietary)

&gt;5,620 ppm (mallard) (5 day dietary)

Piperonyl Butoxide is highly toxic to fish and aquatic organisms.

**Persistence and Degradability:** No further relevant information available.**Bioaccumulative Potential:** No further relevant information available.**Mobility in Soil:** No further relevant information available.**Other adverse effects:** No further relevant information available.

## 13 Disposal Considerations

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

(Contd. on page 7)

# Safety Data Sheet

according to WHS Regulations

Printing date 09.05.2018

Revision: 09.05.2018

**Product Name: RUDCHEM PY FOG**

(Contd. of page 6)

**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. (Solvent naphtha (petroleum), medium aliph.)
<b>Dangerous Goods Class</b> ADG Class:	3 Flammable liquids.
<b>Packing Group:</b> ADG, IMDG, IATA	III
<b>EMS Number:</b>	F-E, <u>S-E</u>
<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:**

CAS: 8042-47-5	White mineral oil, petroleum
CAS: 64742-88-7	Solvent naphtha (petroleum), medium aliph.
CAS: 51-03-6	Piperonyl butoxide
CAS: 8003-34-7	Pyrethrins and Pyrethroids

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

Poisons Schedule: 5

**16 Other Information****Date of Preparation or Last Revision:** 09.05.2018**Last Revision of MSDS:** Rev 1.0 (06/08/2008)**Prepared by:** MSDS.COM.AU Pty Ltd

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 Harmonised System of Classification and Labelling of Chemicals  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 VOC: Volatile Organic Compounds  
 LC<sub>50</sub>: Lethal concentration, 50 percent  
 LD<sub>50</sub>: Lethal dose, 50 percent

(Contd. on page 8)

# Safety Data Sheet

## according to WHS Regulations

Printing date 09.05.2018

Revision: 09.05.2018

**Product Name: RUDCHEM PY FOG**

(Contd. of page 7)

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Flammable Liquids 3: Flammable liquids – Category 3

Flammable Liquids 4: Flammable liquids – Category 4

Acute Toxicity (Oral) 3: Acute toxicity – Category 3

Acute Toxicity (Inhalation) 4: Acute toxicity – Category 4

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aspiration Hazard 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Acute 3: Hazardous to the aquatic environment, short-term (Acute). Category 3

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term (Chronic). Category 3

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016”

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