

SAFETY DATA SHEET

0081

Product Name **PESTIGAS CONCENTRATE**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name **BOC LIMITED (AUSTRALIA)**
Address 10 Julius Avenue, North Ryde, NSW, AUSTRALIA, 2113
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Emergency 1800 653 572 (24/7) (Australia only)
Web Site <http://www.boc.com.au/>
Synonym(s) 081 - SDS NUMBER · BOC PESTIGAS CONCENTRATE · PRODUCT CODE: 196DRUM ·
SYNERGISED NATURAL PYRETHRUM INSECTICIDE IN SOLVENT
Use(s) CONCENTRATE · PESTICIDE
SDS Date 26 April 2012

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

RISK PHRASES

R65 Harmful: May cause lung damage if swallowed.

SAFETY PHRASES

S23 Do not breathe gas/fumes/vapour/spray (where applicable).
S24 Avoid contact with skin.
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN Number	3082	DG Class	9
Packing Group	III	Subsidiary Risk(s)	None Allocated
Hazchem Code	3YE		

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Identification	Classification	Content
NAPHTHA, PETROLEUM HEAVY ALKYLATE	CAS: 64741-65-7 EC: 265-067-2	T;R45 T;R46 Xn;R65	80.8%
PYRETHRUM	CAS: 8003-34-7 EC: 232-319-8	Not Available	3.2%
PIPERONYL BUTOXIDE	CAS: 51-03-6 EC: 200-076-7	Not Available	16%

4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running

Product Name PESTIGAS CONCENTRATE

water.

Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability Combustible. May evolve toxic gases (carbon/ nitrogen oxides, chlorides, hydrogen cyanide, cyanides, hydrocarbons) when heated to decomposition.

Fire and Explosion Temperatures in a fire may cause containers to rupture. Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. To fight fire use water spray, dry chemical or alcohol compatible foam. Cool cylinders or containers exposed to fire by applying water from a protected location. Do not approach containers suspected of being hot. Remove cool containers from the path of the fire. Evacuate the area if unable to keep containers cool.

Extinguishing Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways.

Hazchem Code 3YE

3 Foam

Y Self Contained Breathing apparatus and protective gloves.

E Evacuation of people in the vicinity of the incident should be considered.

6. ACCIDENTAL RELEASE MEASURES

Spillage Contact emergency services where appropriate. Use personal protective equipment. Clear area of all unprotected personnel. Ventilate area where possible. Contain spillage, then cover / absorb spill with sodium carbonate or similar, collect and place in suitable containers for treatment and/or disposal. Prevent spill entering drains or waterways. Only trained personnel should undertake clean up.

7. STORAGE AND HANDLING

Storage Do not store near sources of ignition or incompatible materials. Containers should be stored below 45°C in a secure area and upright to prevented from falling. Containers should also be stored in a dry, well ventilated area constructed of non-combustible material with firm level floor (preferably concrete), away from areas of heavy traffic and emergency exits. Store as a Class C1 Combustible Liquid (AS1940).

Handling Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

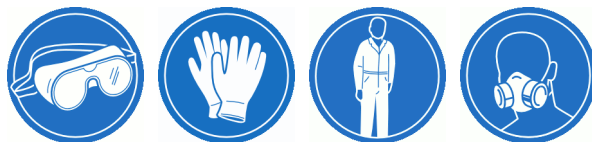
Ingredient	Reference	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Pyrethrum	SWA (AUS)	--	5	--	--

Biological Limits No biological limit allocated.

Engineering Controls Avoid inhalation. If using indoors, ensure there is adequate natural ventilation. Increase air flow by opening windows/doors or using mechanical extraction units. Maintain vapour levels below the recommended exposure standard.

PPE

Eye / Face Wear splash-proof goggles.
Hands Wear viton (R) or nitrile gloves.
Body Wear coveralls.
Respiratory Wear a Type A (Organic vapour) respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	CLEAR PALE YELLOW LIQUID
Odour	CHRYSANTHEMUM ODOUR
Flammability	CLASS C1 COMBUSTIBLE
Flash point	71°C (Distillate)
Boiling point	187°C to 259°C (Distillate)
Melting point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
pH	NOT AVAILABLE
Vapour density	NOT AVAILABLE
Specific gravity	0.81 (Distillate)
Solubility (water)	INSOLUBLE
Vapour pressure	0.45 torr @ 38°C
Upper explosion limit	4.7 % (Distillate)
Lower explosion limit	0.6 % (Distillate)
Autoignition temperature	231°C (Distillate)
% Volatiles	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Material to Avoid	Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid), heat and ignition sources.
Hazardous Decomposition Products	May evolve toxic gases (carbon/ nitrogen oxides, chlorides, hydrogen cyanide, cyanides, hydrocarbons) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Low to moderate toxicity. This product has the potential to cause adverse health effects with over exposure. Chronic exposure may result in liver, kidney, blood and central nervous system (CNS) damage. Pyrethrins can induce an asthmatic response in susceptible or sensitised persons. Sensitivity to pyrethrins may occur over an extended time.
Eye	Irritant. Contact may result in irritation, lacrimation, pain and redness. May result in burns with prolonged contact.
Inhalation	Irritant - toxic. Over exposure may result in mucous membrane irritation of the respiratory tract, coughing and headache. High level exposure may result in CNS stimulation with nervousness, salivation, dizziness, tremors, breathing difficulties (wheezing) and unconsciousness.
Skin	Irritant. Contact may result in drying and defatting of the skin, rash and dermatitis. May cause sensitisation by skin contact.
Ingestion	Moderate toxicity. Ingestion may result in nausea, vomiting, diarrhoea, salivation, breathing difficulties, hyperexcitability, anxiety, lack of coordination and convulsions. Aspiration may result in chemical pneumonitis and pulmonary oedema.
Toxicity Data	PIPERONYL BUTOXIDE (51-03-6) LD50 (ingestion) 2600 mg/kg (mouse) LD50 (skin) 200 mg/kg (rabbit)

PIPERONYL BUTOXIDE (51-03-6)

LDLo (intraperitoneal) 1000 mg/kg (mouse)

TDLo (intraperitoneal) 200 mg/kg (mouse; male; effects on fertility)

12. ECOLOGICAL INFORMATION

Environment Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Residual product will be disposed of when the container is returned. Contact the manufacturer for any additional queries.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
UN Number	3082	-	-
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	-	-
DG Class/ Division	9	-	-
Subsidiary Risk(s)	None Allocated	-	-
Packing Group	III	-	-
GTEPG	9C1		
Hazchem Code	3YE		

15. REGULATORY INFORMATION

Poison Schedule Classified as a Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Inventory Listing(s) **AUSTRALIA: AICS (Australian Inventory of Chemical Substances)**
All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional Information APPLICATION METHOD: Liquid feed to specialised cylinder filling equipment.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this ChemAlert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
CNS	Central Nervous System
EC No.	EC No - European Community Number
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
mg/m ³	Milligrams per Cubic Metre
PEL	Permissible Exposure Limit
pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
REACH	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
TLV	Threshold Limit Value
TWA/OEL	Time Weighted Average or Occupational Exposure Limit

Revision History

Revision	Description
1.0	Standard SDS Review.

Report Status

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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End of SDS