

Version 1/AUS 10200006085

1/10 Revision Date: 26.10.2016 Print Date: 26.10.2016

## SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier		
Trade name	Prolong® Fly & Litter Beetle Insecticide	
Product code (UVP)	00299413	
1.2 Relevant identified uses of	of the substance or mixture and uses advised against	
Use	Insecticide	
1.3 Details of the supplier of the safety data sheet		
Supplier	Bayer Cropscience Pty Ltd ABN 87 000 226 022 Level 1, 8 Redfern Road 3123 Hawthorn East Victoria Australia	
Telephone	(03) 9248 6888	
Telefax	(03) 9248 6800	
Responsible Department	1800 804 479 Technical Information Service	
Website	www.environmentalscience.bayer.com.au	
1.4 Emergency telephone no.		
Emergency telephone no.	1800 033 111 IXOM Operations Pty Ltd	

## **SECTION 2. HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance or mixture

#### **Classification in accordance with Australian GHS Regulation**

Acute aquatic toxicity: Category 1 H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1 H410 Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

No hazard label for supply/use required.

#### 2.3 Other hazards

No other hazards known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical nature**

Cyfluthrin 100g/kg Chemical nature

Wettable powder (WP)



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Chemical Name	CAS-No.	Concentration [%]
Cyfluthrin	68359-37-5	10.00
Alkylaryl sulfonate	91078-64-7	> 1.00 - < 5.00
Methylene-linked condensation product of arylsulphonic, sodium salts	90387-57-8	> 1.00 - < 25.00
Silica, amorphe	7631-86-9	> 1.00
Other ingredients (non-hazardous) to 100%		

## SECTION 4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Safety Data Sheet to the doctor.

### 4.1 Description of first aid measures

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General advice	Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.
Inhalation	Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.
Skin contact	Immediately wash with plenty of soap and water for at least 15 minutes. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. If symptoms persist, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply soothing eye drops, if needed anaesthetic eye drops. Get medical attention if irritation develops and persists.
Ingestion	Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. Do not leave victim unattended. Call a physician or poison control center immediately.
4.2 Most important symptom	s and effects, both acute and delayed
Symptoms	Local:, Skin and eye paraesthesia which may be severe, Usually transient with resolution within 24 hours, Skin, eye and mucous membrane irritation, Cough, Sneezing
	Systemic:, discomfort in the chest, Tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Blurred vision, Headache, anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular fasciculation, Apathy, Dizziness
4.3 Indication of any immediate medical attention and special treatment needed	
Risks	This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.

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## Treatment

Systemic treatment: Initial treatment: symptomatic. Monitor: respiratory and cardiac functions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Keep respiratory tract clear. Oxygen or artificial respiration if needed. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. If not effective, phenobarbital may be used. Contraindication: atropine. Contraindication: derivatives of adrenaline. There is no specific antidote. Recovery is spontaneous and without sequelae.

In case of skin irritation, application of oils or lotions containing vitamin E may be considered.

## **SECTION 5. FIRE FIGHTING MEASURES**

#### 5.1 Extinguishing media Suitable Water spray, Carbon dioxide (CO2), Foam, Sand 5.2 Special hazards arising In the event of fire the following may be released:, Hydrogen chloride from the substance or (HCl), Hydrogen cyanide (hydrocyanic acid), Hydrogen fluoride, Carbon monoxide (CO), Nitrogen oxides (NOx) mixture 5.3 Advice for firefighters **Special protective** In the event of fire and/or explosion do not breathe fumes. In the event equipment for firefighters of fire, wear self-contained breathing apparatus. **Further information** Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses. 2Z

Hazchem Code

**SECTION 6. ACCIDENTAL RELEASE MEASURES** 

6.1 Personal precautions, protective equipment and emergency procedures		
Precautions	Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. Remove all sources of ignition.	
6.2 Environmental precautions	Do not allow to get into surface water, drains and ground water.	
6.3 Methods and materials for containment and cleaning up		
Methods for cleaning up	Use mechanical handling equipment. Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.	
6.4 Reference to other sections	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.	



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## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling	Use only in area provided with appropriate exhaust ventilation.
Advice on protection against fire and explosion	Dust may form explosive mixture in air. Keep away from heat and sources of ignition.
Hygiene measures	Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).
7.2 Conditions for safe storage, including any incompatibilities	
Requirements for storage areas and containers	Keep out of the reach of children. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Store in a place accessible by authorized persons only.

#### Advice on common storage Keep away from food, drink and animal feedingstuffs.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Cyfluthrin	68359-37-5	0.01 mg/m3 (TWAEV)		OES BCS*
Silica, amorphe (Respirable dust.)	7631-86-9	2 mg/m3 (TWA)	12 2011	AU NOEL
Silica, amorphe (Respirable dust.)	7631-86-9	2 mg/m3 (TWA)	12 2011	AU NOEL

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

#### 8.2 Exposure controls

Respiratory protectionIf product is handled while not enclosed, and if contact may occur:<br/>Wear respirator with a particle filter mask (protection factor 4)<br/>conforming to European norm EN149FFP1 or equivalent.<br/>Respiratory protection should only be used to control residual risk of<br/>short duration activities, when all reasonably practicable steps have<br/>been taken to reduce exposure at source e.g. containment and/or<br/>local extract ventilation. Always follow respirator manufacturer's<br/>instructions regarding wearing and maintenance.Hand protectionPlease observe the instructions regarding permeability and<br/>breakthough time which are provided by the supplier of the slower

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Wash gloves when contaminated. Dispose of when contaminated

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot

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	be removed. Wash hands f drinking, smoking or using t Material Rate of permeability Glove thickness Protective index Directive	Nitrile rubber
Eye protection	Wear goggles (conforming	to EN166, Field of Use = 5 or equivalent).
Skin and body protection	type suit. Wear two layers of clothing cotton overalls should be w should be professionally lay If chemical protection suit is	the exposure, consider a higher protective wherever possible. Polyester/cotton or yorn under chemical protection suit and undered frequently. s splashed, sprayed or significantly ate as far as possible, then carefully
General protective measures	Complete suit protecting ag	conditions please refer to the label asses the above mentioned
Engineering Controls		
Advice on safe handling	lse only in area provided with	appropriate exhaust ventilation.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

Form	powder
Colour	beige
Odour	weak, characteristic
рН	6.0 - 7.5 at 1 % (23 °C) (deionized water)
Flammability (solid, gas)	The product is not highly flammable.
Auto-ignition temperature	383 °C
Dust explosion class	capable of causing a dust explosion (modified Hartmann tube)
Water solubility	dispersible
Partition coefficient: n- octanol/water	Cyfluthrin: log Pow: 5.9 - 6.0 at 20 °C
Impact sensitivity	Not impact sensitive.
Burning number	CN3 Local combustion without spreading
Oxidizing properties	No oxidizing properties
Explosivity	Not explosive



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### 92/69/EEC, A.14 / OECD 113

**9.2 Other information** Further safety related physical-chemical data are not known.

## SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	
Thermal decomposition	Stable under normal conditions.
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
10.4 Conditions to avoid	Extremes of temperature and direct sunlight.
10.5 Incompatible materials	Store only in the original container.
10.6 Hazardous decomposition products	Thermal decomposition can lead to release of: Hydrogen chloride (HCI) Hydrogen fluoride Hydrogen cyanide (hydrocyanic acid) Carbon oxides Nitrogen oxides (NOx)

## SECTION 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute oral toxicity	LD50 (Rat) 2,290 mg/kg
Acute inhalation toxicity	LC50 (Rat) > 0.225 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol. Highest attainable concentration.
Acute dermal toxicity	LD50 (Rat) > 5,000 mg/kg
Skin irritation	No skin irritation (Rabbit)
Eye irritation	Slight irritant effect - does not require labelling. (Rabbit)
Sensitisation	Non-sensitizing. (Guinea pig) OECD Test Guideline 406, Buehler test

## Assessment mutagenicity

Cyfluthrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

## Assessment carcinogenicity

Cyfluthrin was not carcinogenic in lifetime feeding studies in rats and mice.

## Assessment toxicity to reproduction

Cyfluthrin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Cyfluthrin is related to parental toxicity.



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### Assessment developmental toxicity

Cyfluthrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Cyfluthrin are related to maternal toxicity.

### Assessment STOT Specific target organ toxicity - repeated exposure

The toxic effects of Cyfluthrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Information on likely routes of exposure

May cause irritation. May cause sensitisation by skin contact. May cause eye irritation.

Early onset symptoms related to exposure Refer to Section 4

Delayed health effects from exposure

Refer to Section 11

**Exposure levels and health effects** Refer to Section 4

Interactive effects Not known

When specific chemical data is not available Not applicable

Mixture of chemicals Refer to Section 2.1

#### **Further information**

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) 0.00047 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient.
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 0.00016 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient.
Toxicity to aquatic plants	IC50 (Desmodesmus subspicatus (green algae)) > 10 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient.



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12.2 Persistence and degradability		
Biodegradability	Cyfluthrin: Not rapidly biodegradable	
Кос	Cyfluthrin: Koc: 64300	
12.3 Bioaccumulative potential		
Bioaccumulation	Cyfluthrin: Bioconcentration factor (BCF) 506 Does not bioaccumulate.	
12.4 Mobility in soil		
Mobility in soil	Cyfluthrin: Immobile in soil	
12.5 Other adverse effects		
Additional ecological information	No other effects to be mentioned.	

## SECTION 13. DISPOSAL CONSIDERATIONS

Metal drums and plastic containers:

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

## **SECTION 14. TRANSPORT INFORMATION**

#### ADG

UN number	3077
Transport hazard class(es)	9
Subsidiary Risk	None
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
	N.O.S.
	(CYFLUTHRIN)
Hazchem Code	2Z

According to AU01, Environmentally Hazardous Substances in packagings, IBC or any other receptacle not exceeding 500 kg or 500 L are not subject to the ADG Code.

#### IMDG

UN number	3077
Transport hazard class(es)	9
Subsidiary Risk	None
Packaging group	III
Marine pollutant	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
	N.O.S.
	(CYFLUTHRIN)



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## IATA

UN number Transport hazard class(es) Subsidiary Risk Packaging group Environm. Hazardous Mark Description of the goods 3077 9 None III YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYFLUTHRIN)

## SECTION 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994

Australian Pesticides and Veterinary Medicines Authority approval number: 58460

## SUSMP classification (Poison Schedule)

Schedule 5 (Standard for the Uniform Scheduling of Medicines and Poisons)

## **SECTION 16. OTHER INFORMATION**

**Trademark information** Prolong® is a registered trademark of the Bayer Group.

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

## Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by
	Road
ATE	Acute toxicity estimate
AU OEL	Australia. OELs. (Adopted National Exposure Standards for Atmospheric
	Contaminants in the Occupational Environment)
CAS-Nr.	Chemical Abstracts Service number
CEILING	Ceiling Limit Value
Conc.	Concentration
EC-No.	European community number
ECx	Effective concentration to x %
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
EN	European Standard



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EU IATA	European Union International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %
LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL N.O.S.	MARPOL: International Convention for the prevention of marine pollution from ships Not otherwise specified
NOEC/NOEL	No observed effect concentration/level
OECD	Organization for Economic Co-operation and Development
OES BCS	OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"
PEAK	PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration
	of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SK-SEN	Skin sensitiser
SKIN_DES	SKIN_DES: Skin notation: Absorption through the skin may be a significant source of
	exposure.
STEL	STEL: Exposure standard - short term exposure limit (STEL): A 15 minute TWA exposure which should not be exceeded at any time during a working day even if the
	eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL
	should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the
	STEL.
TWA	TWA: Exposure standard - time-weighted average (TWA): The average airborne
	concentration of a particular substance when calculated over a normal eight-hour
	working day, for a five-day working week.
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

END OF SDS