# Suspend® Flexx Insecticide

 Version 1 / AUS
 Revision Date: 26.10.2017

 102000026312
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### **SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

1.1 Product identifier

Trade name Suspend® Flexx Insecticide

Product code (UVP) 80547854

1.2 Relevant identified uses 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

Skin sensitisation: Category 1

H317 May cause an allergic skin reaction.

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

Hazard label for supply/use required.

#### Hazardous components which must be listed on the label:

Deltamethrin

Signal word: Warning Hazard statements

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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#### **Precautionary statements**

P261 Avoid breathing mist.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

P302 + P352 IF ON SKIN: Wash with plenty of water/ soap.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local regulation.

#### 2.3 Other hazards

No other hazards known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical nature**

Deltamethrin 25 g/l

Suspension concentrate (=flowable concentrate)(SC)

Chemical name	CAS-No.	Concentration [%]
Deltamethrin	52918-63-5	2.45
Mixture of: 5-chloro-2-methyl-4-isothiazolin-	55965-84-9	> 0.0002 - < 0.0015
3-one and 2-methyl-4-isothiazolin-3-one		
1,2-Propanediol	57-55-6	>= 1.00
Alcohols, C16-18 and C18-unsatd.,	68920-66-1	<= 1.50
ethoxylated (15 - 20 EO)		
Alcohols, C16-18, ethoxylated	68439-49-6	<= 1.50
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	<= 0.60
Alcohols, C12-18, ethoxylated (5 EO)	68213-23-0	<= 0.60
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

**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.

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**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** Keep at rest. Rinse mouth. Do NOT induce vomiting. Call a physician

or poison control center immediately.

4.2 Most important symptoms 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.

**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

In the event of fire and/or explosion do not breathe fumes. In the event

sequelae.

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

5.1 Extinguishing media

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

**Unsuitable** High volume water jet

5.2 Special hazards arising from the substance or

mixture

Dangerous gases are evolved in the event of a fire.

5.3 Advice for firefighters

Special protective

**equipment for firefighters** of fire, wear self-contained breathing apparatus.

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Further information Remove product from areas of fire, or otherwise cool containers with

water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth.

Hazchem Code •3Z

### SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Precautions Keep people away from and upwind of spill/leak. Avoid contact with

spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke. Use personal protective

equipment.

6.2 Environmental

precautions

Retain and dispose of contaminated wash water. Do not allow to get

into surface water, drains and ground water. If the product

contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Collect and transfer the product

into a properly labelled and tightly closed container. Clean

contaminated floors and objects thoroughly, observing environmental

regulations.

**Additional advice** Check also for any local site procedures.

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.

### SECTION 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

Hygiene measures

Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be

destroyed (burnt).

Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. After each day's use, wash gloves, face shield or goggles and contaminated clothing. 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

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Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only. Keep away from direct sunlight. Protect from freezing. Keep out of the reach of children. Store in a place accessible by authorized persons only. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Protect from freezing.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Suitable materials

HDPE (high density polyethylene)

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Deltamethrin	52918-63-5	0.02 mg/m3 (TWA)		OES BCS*
1,2-Propanediol	57-55-6	474 mg/m3/150 ppm (TWA)	12 2011	AU NOEL
(Total vapour and particulates.)				
1,2-Propanediol	57-55-6	10 mg/m3 (TWA)	12 2011	AU NOEL
(Particulate.)		, ,		

<sup>\*</sup>OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

### 8.2 Exposure controls

**Respiratory protection** Respiratory protection is not required under anticipated

circumstances of exposure.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's

instructions regarding wearing and maintenance.

**Hand protection** 

Please observe the instructions regarding permeability and 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 inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating,

drinking, smoking or using the toilet.

Material Nitrile rubber
Rate of permeability > 480 min
Glove thickness > 0.4 mm
Protective index Class 6

Directive Protective gloves complying with EN

374.

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**Eye protection** Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

**Skin and body protection** Wear standard coveralls and Category 3 Type 4 suit.

If there is a risk of significant exposure, consider a higher protective

type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and

should be professionally laundered frequently.

**General protective measures** In normal use and handling conditions please refer to the label

and/or leaflet. In all other cases the above mentioned

recommendations would apply.

**Engineering Controls** 

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Form suspension

Colour light beige to light brown
Odour weak, characteristic

**pH** ca. 3.0 - 4.5 at 100 % (23 °C)

Flash point No flash point - Determination conducted up to the boiling point.

Ignition temperature 465 °C

**Density** ca. 1.02 g/cm³ at 20 °C

Water solubility miscible

Partition coefficient: n-

octanol/water

Deltamethrin: log Pow: 6.4 at 25 °C

Viscosity, kinematic 24.84 - 228.48 mm<sup>2</sup>/s at 20 °C

20.76 - 192.00 mm<sup>2</sup>/s at 25 °C

Surface tension 39.2 mN/m at 20 °C

Determined as a 0,1% solution in distilled water (1 g/l).

34.5 mN/m at 25 °C

Determined in the undiluted form.

Oxidizing properties No oxidizing properties

**Explosivity** Not explosive

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

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### **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 No hazardous reactions when stored and handled according to

hazardous reactions prescribed instructions.

**10.4 Conditions to avoid** Extremes of temperature and direct sunlight.

**10.5 Incompatible materials** Store only in the original container.

decomposition products

10.6 Hazardous

No decomposition products expected under normal conditions of use.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 2,000 mg/kg
Acute inhalation toxicity ATE (Mix) (Rat) > 5.0 mg/l

Calculation method Acute toxicity estimate

Acute dermal toxicityLD50 (Rat) > 2,000 mg/kgSkin irritationNo skin irritation (Rabbit)Eye irritationNo eye irritation (Rabbit)

Sensitising (Mouse)

OECD Test Guideline 429, local lymph node assay (LLNA)

### Assessment mutagenicity

Sensitisation

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

### Assessment carcinogenicity

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

### Assessment toxicity to reproduction

Deltamethrin did not cause reproductive toxicity in a two-generation study in rats.

#### Assessment developmental toxicity

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

#### Assessment STOT Specific target organ toxicity – single exposure

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

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

Deltamethrin caused neurobehavioral effects and/or neuropathological changes in animal studies. The toxic effects of Deltamethrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

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## **Aspiration hazard**

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

### 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)) 0.15 µg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient deltamethrin.

EC50 (Daphnia magna (Water flea)) 0.0131 µg/l

Toxicity to aquatic

invertebrates Exposure time: 48 h

The value mentioned relates to the active ingredient deltamethrin.

Toxicity to aquatic plants EC50 (Algae) > 9.1 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient deltamethrin.

12.2 Persistence and degradability

Biodegradability Deltamethrin:

Not rapidly biodegradable

Koc Deltamethrin: Koc: 10240000

12.3 Bioaccumulative potential

**Bioaccumulation** Deltamethrin: Bioconcentration factor (BCF) 1,400

Does not bioaccumulate.

12.4 Mobility in soil

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Mobility in soil Deltamethrin: 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 3082
Transport hazard class(es) 9
Subsidiary Risk None
Packaging group III

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(DELTAMETHRIN SOLUTION)

Hazchem Code •3Z

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 3082
Transport hazard class(es) 9
Subsidiary Risk None
Packaging group III
Marine pollutant YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(DELTAMETHRIN SOLUTION)

**IATA** 

UN number 3082
Transport hazard class(es) 9
Subsidiary Risk None
Packaging group III
Environm. Hazardous Mark YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(DELTAMETHRIN SOLUTION )

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### **SECTION 15. REGULATORY INFORMATION**

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994 Australian Pesticides and Veterinary Medicines Authority approval number: 81960

#### SUSMP classification (Poison Schedule)

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

### **SECTION 16. OTHER INFORMATION**

**Trademark information** Suspend® is a Registered Trademark of the Bayer Group.

#### 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 EU European Union

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk (IBC Code) Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

**IC**x

LOEC/LOEL Lowest observed effect concentration/level

MARPOL: International Convention for the prevention of marine pollution from ships

N.O.S. Not otherwise specified

NOEC/NOEL No observed effect concentration/level

OECD Organization for Economic Co-operation and Development

OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure

Standard"

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

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SKIN DES: Skin notation: Absorption through the skin may be a significant source of

exposure.

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: 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

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.

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