

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 08.08.2024  
Product: **Efficon (TM) Insecticide**

Version: 2.0

(30799935/SDS\_CPA\_AU/EN)

Date of print: 12.11.2024

## 1. Substance/preparation and manufacturer/supplier identification

**Product name:**  
Efficon (TM) Insecticide

Use: crop protection product, insecticide

Manufacturer/supplier:

BASF Australia Limited (ABN 62 008 437 867)  
Level 23, 40 City Road, Southbank  
Victoria 3006, AUSTRALIA  
Telephone: +61 3 8855-6600

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]  
BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

## 2. Hazard identification

Classification of the substance and mixture:

Hazardous to the aquatic environment - acute: Cat.3

Label elements and precautionary statement:

Hazard Statement:

H402 Harmful to aquatic life.

Precautionary Statement:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

Precautionary Statements (Disposal):

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P501 Dispose of contents and container to hazardous or special waste collection point.

Other hazards which do not result in classification:

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

### 3. Composition/information on ingredients

#### Chemical nature

Substance nature: mixture

crop protection product, insecticide

#### Hazardous ingredients

1H-Pyrazole-4-carboxamide, 1-(1,2-dimethylpropyl)-N-ethyl-5-methyl-N-4-pyridazinyl-	Content (W/W): 10.79 % CAS Number: 1403615-77-9	Acute Tox.: Cat. 4 (oral) Aquatic Acute: Cat. 3
propylene carbonate	Content (W/W): < 25 % CAS Number: 108-32-7	Eye Irrit.: Cat. 2A
cyclohexanone	Content (W/W): < 5 % CAS Number: 108-94-1	Flam. Liq.: Cat. 3 Acute Tox.: Cat. 4 (Inhalation - vapour) Acute Tox.: Cat. 4 (oral) Acute Tox.: Cat. 4 (dermal) Skin Irrit.: Cat. 2 Eye Dam./Irrit.: Cat. 1
Alcohols, C12-18, ethoxylated propoxylated	Content (W/W): < 5 % CAS Number: 69227-21-0	Aquatic Acute: Cat. 2
polyethylene glycol	Content (W/W): < 50 % CAS Number: 25322-68-3	
propane-1,2-diol		

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Content (W/W): < 20 %  
CAS Number: 57-55-6

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## 4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink 200-300 ml of water.

Note to physician:

Symptoms: (Further) symptoms and / or effects are not known so far

Hazards: (Further) symptoms and / or effects are not known so far

Treatment: Symptomatic treatment (decontamination, vital functions).

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

Specific hazards:

carbon monoxide, hydrogen chloride, carbon dioxide, nitrogen oxides, halogenated compounds, sulfur oxides, potassium oxides, sodium oxides

The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental Release Measures

Personal precautions:

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

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## 7. Handling and Storage

Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:

Storage duration: 24 Months

Protect from temperatures below: -10 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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## 8. Exposure controls and personal protection

Components with occupational exposure limits

propane-1,2-diol, 57-55-6;

TWA value 474 mg/m<sup>3</sup> ; 150 ppm (AU NOEL), Total vapour and particulates

TWA value 10 mg/m<sup>3</sup> (AU NOEL), Particulate

TWA value 474 mg/m<sup>3</sup> ; 150 ppm (OEL (AU)), Total vapour and particulates

TWA value 10 mg/m<sup>3</sup> (OEL (AU)), Particulate

cyclohexanone, 108-94-1;

TWA value 20 ppm (ACGIHTLV)  
STEL value 50 ppm (ACGIHTLV)  
Skin Designation (AU NOEL)  
The substance can be absorbed through the skin.  
TWA value 100 mg/m<sup>3</sup> ; 25 ppm (AU NOEL)  
TWA value 100 mg/m<sup>3</sup> ; 25 ppm (OEL (AU))  
Skin Designation (OEL (AU))  
The substance can be absorbed through the skin.  
Skin Designation (ACGIHTLV)  
Danger of cutaneous absorption  
Skin Designation (ACGIHTLV)  
Danger of cutaneous absorption

#### Personal protective equipment

Respiratory protection:  
Respiratory protection not required.

Hand protection:  
Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact  
(Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to  
EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:  
Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:  
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting  
boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case  
of dust).

General safety and hygiene measures:  
The statements on personal protective equipment in the instructions for use apply when handling  
crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended.  
Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

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## 9. Physical and Chemical Properties

Form:	liquid
Colour:	dark brown
Odour:	flowery
Odour threshold:	Not determined due to potential health hazard by inhalation.
pH value:	approx. 4 - 6 (1 %(m), 20 °C)
Melting point:	The product has not been tested.
Boiling point:	The product has not been tested.
Flash point:	94 °C

Evaporation rate:	not applicable
Flammability (solid/gas):	not applicable
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Ignition temperature:	approx. 400 °C
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Vapour pressure:	The product has not been tested.
Density:	approx. 1.11 g/cm <sup>3</sup> (20 °C)
Relative vapour density (air):	not applicable
Solubility in water:	dispersible
Partitioning coefficient n-octanol/water (log Pow):	The statements are based on the properties of the individual components.
Information on: 1H-Pyrazole-4-carboxamide, 1-(1,2-dimethylpropyl)-N-ethyl-5-methyl-N-4-pyridazinyl-	
Partitioning coefficient n-octanol/water (log Pow):	approx. 1.1 (20 °C; pH value: 6)
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Viscosity, dynamic:	approx. 71 mPa.s (approx. 20 °C, 100 1/s)

**Other Information:**

If necessary, information on other physical and chemical parameters is indicated in this section.

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## 10. Stability and Reactivity

Conditions to avoid:  
See SDS section 7 - Handling and storage.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:  
strong acids, strong bases, strong oxidizing agents

Hazardous reactions:  
No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

Chemical stability:  
The product is stable if stored and handled as prescribed/indicated.

Reactivity:  
No hazardous reactions if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Routes of exposure

#### Acute oral toxicity

Experimental/calculated data:  
LD50rat (oral): > 2,000 mg/kg (OECD Guideline 423)  
No mortality was observed.

#### Acute inhalation toxicity

LC50 rat (by inhalation): > 5,108 mg/l (OECD Guideline 403)

#### Acute dermal toxicity

LD50 rat (dermal): > 2,000 mg/kg (OECD Guideline 402)  
No mortality was observed.

#### Assessment of acute toxicity

Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Virtually nontoxic after a single ingestion.

#### Symptoms

(Further) symptoms and / or effects are not known so far

#### Irritation

Assessment of irritating effects:  
Not irritating to eyes and skin.

Experimental/calculated data:  
Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

## Respiratory/Skin sensitization

Assessment of sensitization:

No sensitizing effect.

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) : Non-sensitizing. (OECD Guideline 429)

## Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

## Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: cyclohexanone

Assessment of carcinogenicity:

In long-term animal studies in which the substance was given in the drinking water in high doses, a carcinogenic effect was observed. Due to the rat-specific mode of action, no carcinogenic effects are expected in man. Hence, the findings are of low relevance for humans. IARC Group 3 (not classifiable as to human carcinogenicity).

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## Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

## Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: cyclohexanone

Assessment of teratogenicity:

The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals.

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## Specific target organ toxicity (single exposure)

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.



### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.

### Aspiration hazard

| not applicable

### Other relevant toxicity information

Misuse can be harmful to health.

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## 12. Ecological Information

### Ecotoxicity

Assessment of aquatic toxicity:

Harmful to aquatic life.

Toxicity to fish:

LC50 (96 h) 21.8 mg/l, *Oncorhynchus mykiss*

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, *Daphnia magna*

Aquatic plants:

EC50 (72 h) > 100 mg/l (growth rate), *Pseudokirchneriella subcapitata*

Information on: 1H-Pyrazole-4-carboxamide, 1-(1,2-dimethylpropyl)-N-ethyl-5-methyl-N-4-pyridazinyl-

Chronic toxicity to fish:

No observed effect concentration > 10.7 mg/l, *Oncorhynchus mykiss*  
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Information on: 1H-Pyrazole-4-carboxamide, 1-(1,2-dimethylpropyl)-N-ethyl-5-methyl-N-4-pyridazinyl-

Chronic toxicity to aquatic invertebrates:

No observed effect concentration, > 2 mg/l, *Daphnia magna*  
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### Mobility

Assessment transport between environmental compartments:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 1H-Pyrazole-4-carboxamide, 1-(1,2-dimethylpropyl)-N-ethyl-5-methyl-N-4-pyridazinyl-

Assessment transport between environmental compartments:

Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

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### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 1H-Pyrazole-4-carboxamide, 1-(1,2-dimethylpropyl)-N-ethyl-5-methyl-N-4-pyridazinyl-

Assessment biodegradation and elimination (H<sub>2</sub>O):

Not readily biodegradable (by OECD criteria).

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### **Bioaccumulation potential**

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 1H-Pyrazole-4-carboxamide, 1-(1,2-dimethylpropyl)-N-ethyl-5-methyl-N-4-pyridazinyl-

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

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### **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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## **13. Disposal Considerations**

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## **14. Transport Information**

### **Domestic transport:**

UN number or ID number	Not classified as a dangerous good under transport regulations
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

**Sea transport**

## IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
	Marine pollutant: no
Special precautions for user	None known

**Air transport**

## IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

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**15. Regulatory Information****Other regulations**

To avoid risks to man and the environment, comply with the instructions for use.

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

APVMA Approval No: 90474

**Registration status:**

AICIS, AU

Contains non-registered, non-listed substance., Individual registration may be required., Please contact your BASF representative.

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## 16. Other Information

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.