

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 24.10.2016  
Product: **AERO FUNGICIDE**

Version: 4.0

(30273185/SDS\_CPA\_AU/EN)

Date of print 25.10.2016

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

### AERO FUNGICIDE

Use: crop protection product, fungicide

Manufacturer/supplier:

BASF Australia Limited (ABN 62 008 437 867)  
Level 12, 28 Freshwater Place Southbank  
Victoria 3006, AUSTRALIA  
Telephone: +61 3 8855-6600  
Telefax number: +61 3 8855-6511

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:

Acute toxicity: Cat. 5 (Inhalation - dust)

Acute toxicity: Cat. 4 (oral)

Skin corrosion/irritation: Cat. 2

Specific target organ toxicity — repeated exposure (Skeletal muscle): Cat. 2

Hazardous to the aquatic environment - acute: Cat. 1

Hazardous to the aquatic environment - chronic: Cat. 1

Label elements and precautionary statement:

Pictogram:



Signal Word:  
 Warning

**Hazard Statement:**

Causes skin irritation. May be harmful if inhaled. Harmful if swallowed. May cause damage to organs (Skeletal muscle) through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Precautionary Statements (Prevention):**

Wear protective gloves. Do not breathe dust/gas/mist/vapours. Do not eat, drink or smoke when using this product. Wash contaminated body parts thoroughly after handling.

**Precautionary Statements (Response):**

Call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Wash with plenty of soap and water. IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse mouth. Collect spillage. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

**Precautionary Statements (Disposal):**

Dispose of contents/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

crop protection product, fungicide, water dispersible granules

#### Hazardous ingredients

##### | metiram

Content (W/W): 55 %  
 CAS Number: 9006-42-2

Skin Sens.: Cat. 1  
 STOT RE (Skeletal muscle): Cat. 2  
 Aquatic Acute: Cat. 1  
 Aquatic Chronic: Cat. 1

##### | Pyraclostrobin

Content (W/W): 5 %  
 CAS Number: 175013-18-0

Acute Tox.: Cat. 3 (Inhalation - mist)  
 Skin Corr./Irrit.: Cat. 2  
 STOT SE: Cat. 3 (irr. to respiratory syst.)  
 Aquatic Acute: Cat. 1  
 Aquatic Chronic: Cat. 1  
 M-factor acute: 100  
 M-factor chronic: 100

##### | sodium diisobutyl naphthalene sulphonate

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Content (W/W): < 5 %  
CAS Number: 27213-90-7

Acute Tox.: Cat. 4 (Inhalation - dust)  
Acute Tox.: Cat. 4 (oral)  
Skin Corr./Irrit.: Cat. 2  
Eye Dam./Irrit.: Cat. 1  
STOT SE: Cat. 3 (irr. to respiratory syst.)  
Aquatic Acute: Cat. 3  
Aquatic Chronic: Cat. 3

| methenamine

Content (W/W): < 5 %  
CAS Number: 100-97-0

Flam. Sol.: Cat. 2  
Skin Sens.: Cat. 1

#### 4. First-Aid Measures

General advice:

| Remove contaminated clothing.

If inhaled:

| Keep patient calm, remove to fresh air, seek medical attention.

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, consult an eye specialist.

On ingestion:

| Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

| Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

#### 5. Fire-Fighting Measures

Suitable extinguishing media:

dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons:

carbon dioxide

Specific hazards:

carbon monoxide, hydrogen chloride, carbon dioxide, nitrogen oxides, sulfur oxides, organochloric compounds

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:

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. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

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## 6. Accidental Release Measures

Personal precautions:

Avoid dust formation. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions:

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

Methods for cleaning up or taking up:

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

Avoid raising dust. 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:

Avoid dust formation. Dust can form an explosive 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 against moisture. Protect from direct sunlight.

Protect from temperatures above: 30 °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

| No occupational exposure limits known.

#### Personal protective equipment

##### Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

##### Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): 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: granules  
Colour: brown  
Odour: aromatic  
Odour threshold: Not determined due to potential health hazard by inhalation.

pH value: approx. 5 - 7  
(CIPAC standard water D, 1 %(m),  
20 °C)  
(as suspension)

onset of melting: > 120 °C  
Boiling point: The product is a non-volatile solid.

Flash point: not applicable

Evaporation rate: not applicable

Flammability (solid/gas): not highly flammable (Directive 92/69/EEC, A.10)

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.	
Thermal decomposition:	150 °C , 150 kJ/kg	(DSC (OECD 113))
Self ignition:	Not a substance liable to self-decomposition according to UN transport regulations, class 4.1. Temperature: approx. 199 °C	(Method: Directive 92/69/EEC, A.16)
Explosion hazard:	not explosive	(Directive 92/69/EEC, A.14)
Fire promoting properties:	not fire-propagating	(Directive 92/69/EEC, A.17)
Vapour pressure:	not applicable	
Density:	approx. 1.67 g/cm <sup>3</sup> (20 °C)	(Directive 92/69/EEC, A.3)
	approx. 1.663 g/cm <sup>3</sup> (55 °C)	(calculated)
Relative vapour density (air):	not applicable	
Solubility in water:	dispersible	
Information on: metiram		
Partitioning coefficient n-octanol/water (log Pow):	0.33	
	(pH value: 7)	
	1.9	
	(pH value: 5)	
	-0.37	
	(pH value: 9)	
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Viscosity, dynamic:	not applicable, the product is a solid	

## 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 MSDS section 7 - Handling and storage.

Thermal decomposition: 150 °C, 150 kJ/kg (DSC (OECD 113))

Thermal decomposition: Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.

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.

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## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity:  
Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data:  
LD50 rat (oral): > 500 - < 2,000 mg/kg (OECD Guideline 423)

LC50 rat (by inhalation): > 5.6 mg/l 4 h (OECD Guideline 403)

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

### Irritation

Assessment of irritating effects:  
Skin contact causes irritation. Not irritating to the eyes.

Experimental/calculated data:  
Skin corrosion/irritation rabbit: Irritant. (OECD Guideline 404)

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

### Respiratory/Skin sensitization

Assessment of sensitization:  
There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:  
modified Buehler test guinea pig: Non-sensitizing. (OECD Guideline 406)

### 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. The results of various animal studies gave no indication of a carcinogenic effect.

**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. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

The product contains: metiram, methenamine  
May produce an allergic reaction.

**Specific target organ toxicity (single exposure):****Assessment of STOT single:**

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.

**Information on: metiram****Assessment of repeated dose toxicity:**

Repeated oral exposure may affect certain organs.

**Information on: Pyraclostrobin****Assessment of repeated dose toxicity:**

After repeated exposure the prominent effect is local irritation. The substance may cause damage to the olfactory epithelium after repeated inhalation.

**Information on: Silicon dioxide****Assessment of repeated dose toxicity:**



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Repeated inhalative uptake of particles/dust reaching the alveoli may cause damage to the lungs.  
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### **Aspiration hazard**

| No aspiration hazard expected.

### **Other relevant toxicity information**

Misuse can be harmful to health.

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:  
Very toxic to aquatic life with long lasting effects.

Toxicity to fish:  
LC50 (96 h) 0.149 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203, static)

Aquatic invertebrates:  
EC50 (48 h) 0.41 mg/l, *Daphnia magna* (OECD Guideline 202, part 1)  
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic plants:  
EC50 (72 h) 0.25 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

### **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: metiram  
Assessment transport between environmental compartments:  
Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Information on: Pyraclostrobin  
Assessment transport between environmental compartments:  
Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.  
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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: metiram  
Assessment biodegradation and elimination (H<sub>2</sub>O):  
According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

Information on: Pyraclostrobin  
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: metiram  
Bioaccumulation potential:  
Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Information on: Pyraclostrobin  
Bioaccumulation potential:  
Bioconcentration factor: 379 - 507, Oncorhynchus mykiss (OECD-Guideline 305)  
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:**

Hazard class:	9
Packing group:	III
ID number:	UN 3077
Hazard label:	9, EHS
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains METIRAM, PYRACLOSTROBIN)

### **Further information**

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Hazchem Code:2Z  
IERG Number:47

**Sea transport****IMDG**

Hazard class: 9  
Packing group: III  
ID number: UN 3077  
Hazard label: 9, EHSM  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains METIRAM, PYRACLOSTROBIN)

**Air transport****IATA/ICAO**

Hazard class: 9  
Packing group: III  
ID number: UN 3077  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains METIRAM, PYRACLOSTROBIN)

**Further information**

Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subjected to the Australian Dangerous Goods Code when transported by road or rail in packagings not exceeding 500 kg(L) or IBCs.

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

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

**Registration status:**

AICS, AU released w/o restriction f. BASF / not listed  
APVMA Approval 59616

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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.