

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 03.04.2022  
Product: **Polyram DF Fungicide Spray**

Version: 6.0

(30665437/SDS\_CPA\_AU/EN)

Date of print 10.05.2023

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

### Polyram DF Fungicide Spray

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:

Skin sensitization: Cat. 1

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:

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**Warning****Hazard Statement:**

H317 May cause an allergic skin reaction.  
 H373 May cause damage to organs (Skeletal muscle) through prolonged or repeated exposure.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.

**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 (Prevention):**

P280 Wear protective gloves.  
 P260 Do not breathe dust.  
 P272 Contaminated work clothing should not be allowed out of the workplace.

**Precautionary Statements (Response):**

P314 Get medical advice/attention if you feel unwell.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P391 Collect spillage.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.

**Precautionary Statements (Disposal):**

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

fungicide, water dispersible granules

**Hazardous ingredients**

metiram

Content (W/W): 70 %  
 CAS Number: 9006-42-2

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

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)  
Eye Dam./Irrit.: Cat. 1  
STOT SE: Cat. 3 (irr. to respiratory syst.)  
Aquatic Acute: Cat. 3  
Aquatic Chronic: Cat. 3

| Lignosulfonic acid, sodium salt

| Content (W/W): < 30 %  
| CAS Number: 8061-51-6

| glucose

| Content (W/W): < 3 %  
| CAS Number: 50-99-7

| sodium sulphate

| Content (W/W): < 3 %  
| CAS Number: 7757-82-6

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#### 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.

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

Note to physician:  
Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far  
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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#### 5. Fire-Fighting Measures

Suitable extinguishing media:  
dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons:  
carbon dioxide

Specific hazards:

carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides, sulfur oxides, silica compounds, halogenated compounds, organometallic 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:

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:

Avoid dust formation. 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: 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. Wear suitable protective equipment.

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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 substance specific occupational exposure limits known.

### Personal protective equipment

Respiratory protection:  
Respiratory protection not required.

Hand protection:  
Chemical resistant protective gloves

Eye protection:  
Eye protection not required.

Body protection:  
Body protection not required.

General safety and hygiene measures:  
Avoid contact with the skin, eyes and clothing. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Wash contaminated clothing before reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Before eating, drinking, or smoking, wash face and hands with soap and water.

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## 9. Physical and Chemical Properties

Form: solid  
Colour: light brown  
Odour: mild, spicy  
Odour threshold: Not determined due to potential health hazard by inhalation.

pH value: approx. 4.5 - 6.5  
(CIPAC standard water D, 1 %(m),  
23 °C)

Melting temperature: approx. 156 °C  
The values mentioned are those of  
the active ingredient.

Boiling point:  
The product has not been tested.

Flash point:  
not applicable, the product is a solid

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Evaporation rate: not applicable

Flammability (solid/gas): not highly flammable  
 Lower explosion limit: 150 g/m<sup>3</sup> (VDI 2263)  
 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 , 20 kJ/kg (DSC (OECD 113))  
 235 °C , 20 kJ/kg (DSC (OECD 113))  
 325 °C , > 830 kJ/kg (DSC (OECD 113))

Self ignition: Not a substance liable to self-decomposition according to UN transport regulations, class 4.1. not self-igniting

Self heating ability: It is not a substance capable of spontaneous heating.

Explosion hazard: not explosive  
 Fire promoting properties: not fire-propagating

Vapour pressure: The value has not be determined because of the high melting point.

Bulk density: approx. 603 kg/m<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: 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

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## 10. Stability and Reactivity

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

Thermal decomposition:	150 °C, 20 kJ/kg (DSC (OECD 113))
Thermal decomposition:	235 °C, 20 kJ/kg (DSC (OECD 113))
Thermal decomposition:	325 °C, > 830 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 bases, strong acids, 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:  
Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data:  
LD50 rat (oral): > 5,000 mg/kg (OECD Guideline 401)

LC50 rat (by inhalation): > 2.71 mg/l 4 h (OECD Guideline 403)  
No mortality was observed. An aerosol was tested.

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

### Irritation

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

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

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

### **Respiratory/Skin sensitization**

Assessment of sensitization:  
Sensitization after skin contact possible.

Experimental/calculated data:  
modified Buehler test guinea pig: (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.

### **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:



Damages the skeletal muscle.  
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### **Aspiration hazard**

No aspiration hazard expected.

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

### **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) 0.473 mg/l, *Oncorhynchus mykiss* (OPP 72-1 (EPA-Guideline), Flow through.)

Aquatic invertebrates:

EC50 (48 h) > 0.821 mg/l, *Daphnia magna* (Directive 79/831/EEC, semistatic)

Aquatic plants:

EC50 (72 h) 0.01 mg/l (growth rate), *Skeletonema costatum*

No observed effect concentration (72 h) 0.0076 mg/l (growth rate), *Skeletonema costatum*

EC50 (72 h) 0.157 mg/l (growth rate), algae (OECD Guideline 201, static)

No observed effect concentration (72 h) 0.002 mg/l (growth rate), algae (OECD Guideline 201)

Chronic toxicity to fish:

No observed effect concentration (28 d) 0.0316 mg/l, *Oncorhynchus mykiss*

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d), 0.00615 mg/l, *Daphnia magna*

### **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.

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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.

### **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.

### **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:**

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

### **Further information**

Hazchem Code:2Z

IERG Number:47

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**Sea transport**

## IMDG

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

**Air transport**

## IATA/ICAO

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

**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.

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 kg or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2:10.2.7; IATA: A197; TDS: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

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

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

APVMA Approval No.: 30467

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

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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.

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