

Safety data sheet

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BASF Safety data sheet
Date / Revised: 20.01.2015
Product: **KUMULUS DF**

Version: 5.0

(58860031/SDS_CPA_PH/EN)

Date of print 21.01.2015

1. Substance/preparation and manufacturer/supplier identification

KUMULUS DF

Use: crop protection product, fungicide

Manufacturer/supplier:

BASF Philippines, Inc.
11/F HHIC Building, 1128 University Parkway,
North Bonifacio, Global City, Taguig, Metro Manila, PHILIPPINES
Telephone: +63 2 811-8000
Telefax number: +63 2 838-1025

Emergency information:

National emergency number:
+63 2 831 5576
International emergency number:
Telephone: +49 180 2273-112

2. Hazard identification

Classification of the substance and mixture:

▮ No need for classification according to GHS criteria for this product.

Label elements and precautionary statement:

The product does not require a hazard warning label in accordance with GHS criteria.

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

sulfur

Content (W/W): 80 %
CAS Number: 7704-34-9

Skin Corr./Irrit.: Cat. 2

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 plenty of water.

Note to physician:

Symptoms: No significant reaction of the human body to the product known.

Treatment: Symptomatic treatment (decontamination, vital functions).

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, sulfur 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:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage

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or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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.

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.

Storage stability:

Storage duration: 60 Months

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.

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:
 Respiratory protection not required.

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.
 Keep away from food, drink and animal feeding stuffs. Store work clothing separately.

9. Physical and Chemical Properties

Form: low dusting fine granules
 Colour: grey-brown
 Odour: faint specific odour, sulfur-like
 Odour threshold: Not determined due to potential health hazard by inhalation.

pH value: approx. 7 - 9 (pH Meter)
 (CIPAC standard water D, 1 %(m),
 20 °C)

Melting point: approx. 112 - 116 °C
 Boiling point: The product is a non-volatile solid.

Flash point: not applicable

Evaporation rate: not applicable

Flammability (solid/gas): not flammable
 Lower explosion limit: approx. 25 g/m³ (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.

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Thermal decomposition: 165 °C , 50 kJ/kg (DSC (OECD 113))
Self ignition: 265 °C , 30 kJ/kg (DSC (OECD 113))
Temperature: 246 °C (Method: Directive 92/69/EEC, A.16)
Explosion hazard: not explosive
Fire promoting properties: not fire-propagating
Vapour pressure: The product has not been tested.
Density: approx. 1.88 g/cm³ (20 °C)
Relative vapour density (air): not applicable
Solubility in water: dispersible
Partitioning coefficient n-octanol/water (log Pow): not applicable
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.

10. Stability and Reactivity

Conditions to avoid:

See MSDS section 7 - Handling and storage.

Thermal decomposition: 165 °C, 50 kJ/kg (DSC (OECD 113))

Thermal decomposition: 265 °C, 30 kJ/kg (DSC (OECD 113))

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.

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): > 2,200 mg/kg (OECD Guideline 401)
No mortality was observed.

LC50 rat (by inhalation): > 5.4 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:
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:
There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:
Guinea pig maximization 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.

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.

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Oncorhynchus mykiss*

Aquatic invertebrates:

EC50 (48 h) > 1,000 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (72 h) 290 mg/l, *Ankistrodesmus bibraianus* (OECD Guideline 201)

Microorganisms/Effect on activated sludge:

EC50 (18 h) > 2,000 mg/l, *Pseudomonas putida* (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: sulfur

Assessment transport between environmental compartments:

Study scientifically not justified.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

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

Information on: sulfur

Assessment biodegradation and elimination (H₂O):

Not applicable for inorganic substances.

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: sulfur**Bioaccumulation potential:**

Accumulation in organisms is not to be expected. The product will not be readily bioavailable due to its consistency and insolubility in water.

Additional information**Other ecotoxicological advice:**

Do not discharge product into the environment without control.

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.

14. Transport Information**Domestic transport:**

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information**Regulations of the European union (Labelling)**

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EEC Directives:

S-phrase(s)

S2

Keep out of the reach of children.

S13

Keep away from food, drink and animal feeding stuffs.

S20/21

When using do not eat, drink or smoke.

The product does not require a hazard warning label in accordance with EC Directives.

Other regulations

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

Registration status:

PICCS, PH released / listed

PICCS, PH released / listed

16. Other Information

Organization that prepared the MSDS: RCQM

Person who prepared the MSDS: Derrick Clarin

Address/ Tel: BASF Philippines, Inc., 103 Progress Ave., Carmelray Industrial Park I, Calamba, Laguna, Philippines. +6328894321

Date the MSDS was prepared: See top of the page

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. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.