



## SAFETY DATA SHEET (SDS)

TITLE: KRESOXIM-METHYL 500 WG

### 1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

#### 1.1 Product Identifier

Identification on the label / Trade name : CIBA KRESOXIM-METHYL 500 WG  
Common Name : Kresoxim-methyl 500 g/kg WG  
Index Number : N/A  
REACH registration No. : N/A

#### 1.2 Relevant identified uses of the substance and uses advised against:

Fungicide

#### 1.3 Details of the Manufacturer / Supplier of the safety data sheet:

Supplier CIBA AGRIPHARMA SARL  
78 Boulevard Haussmann  
75008 Paris , France  
Tel Tel: +33 6 51 39 90 00  
E-mail administration@ciba- agripharma.com  
Webpage www. ciba- agripharma.com

#### 1.4 Emergency Phone Number (24 hours)

+33 6 51 39 90 00

### 2.0 HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Carc. 2  
Aquatic Acute 1  
Aquatic Chronic 1



H351, H400, H410, EUH401

For the classifications not written out in full in this section the full text can be found in section 16.

## 2.2. Label elements

Globally Harmonized System (GHS) in accordance with IE regulations.

Pictogram:



Signal Word:

Warning

Hazard Statement:

|        |   |
|--------|---|
| H351   | Suspected of causing cancer.  |
| H400   | Very toxic to aquatic life.   |
| H410   | Very toxic to aquatic life with long lasting effects.                                     |
| EUH401 | To avoid risks to human health and the environment, comply with the instructions for use. |

Precautionary Statements (Prevention):

|      |  |
|------|--|
| P201 | Obtain special instructions before use.        |
| P281 | Use personal protective equipment as required. |

Precautionary Statements (Response):

|             |  |
|-------------|--|
| P308 + P313 | IF exposed or concerned: Get medical advice/attention. |
| P391        | Collect spillage.                                      |

Precautionary Statements (Storage):

|      |                  |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

Precautionary Statements (Disposal):

|      |   |
|------|---|
| P501 | Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste. |
|------|---|

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: KRESOXIM-METHYL

## 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]



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.

### 3.0 COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

##### Chemical nature

crop protection product, fungicide, water dispersible granules

##### Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

##### Kresoxim-methyl

|   |                     |
|---|---------------------|
| Content (W/W): 50 %                         | Carc. 2             |
| CAS Number: 143390-89-0                     | Aquatic Acute 1     |
| EC-Number: 417-880-0                        | Aquatic Chronic 1   |
| REACH registration number: 01-2119452496-32 | M-factor acute: 10  |
| INDEX-Number: 607-310-00-0                  | M-factor chronic: 1 |
|   | H400, H410, H351    |

##### Ammonium sulphate

Content (W/W): < 20 %  
CAS Number: 7783-20-2  
EC-Number: 231-984-1

##### Sodium sulphate

Content (W/W): < 10 %  
CAS Number: 7757-82-6  
EC-Number: 231-820-9  
REACH registration number: 01-2119519226-43

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.



## 4.0 FIRST AID MEASURES

### 4.1. Description of first aid measures

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.

### 4.2. Most important symptoms and effects, both acute and delayed

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.

### 4.3. Indication of any immediate medical attention and special treatment needed

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

## 5.0 FIRE – FIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media:  
dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons:  
carbon dioxide

### 5.2. Special hazards arising from the substance or mixture

carbon monoxide, Carbon dioxide, nitrogen oxides, sulfur oxides  
The substances/groups of substances mentioned can be released in case of fire.

### 5.3. Advice for fire-fighters

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



## 6.0 ACCIDENTAL RELEASE MEASURES

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

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

### 6.2. Environmental precautions

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

Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environmental Protection Agency if it enters surface or ground waters. Keep people and animals away.

### 6.3. Methods and material for containment and cleaning 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.

### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## 7.0 HANDLING AND STORAGE

### 7.1. Precautions for safe 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.

### 7.2. Conditions for safe storage, including any incompatibilities

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: 40 °C

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

### 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.



## 8.0 EXPOSURE CONTROL/PERSONAL PROTECTION

### 8.1. Control parameters

#### Components with occupational exposure limits

Refer to the current schedule of occupational exposure standards published by the Irish HSA. For normal use and handling refer to the product label/leaflet. In all other cases the following apply.

| No occupational exposure limits known.

### 8.2. Exposure controls

#### 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.

## 9.0 PHYSICAL AND CHEMICAL PROPERTIES

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

|                  |  |
|------------------|--|
| Form:            | granules   |
| Colour:          | dark brown   |
| Odour:           | sulfur-like  |
| Odour threshold: | Not determined due to potential health hazard by inhalation. |



|  |   |                                     |
|--|---|-------------------------------------|
| pH value:  | approx. 5 - 8<br>(20 °C)  |                                     |
| Melting point:   | The substance / product decomposes therefore not determined.                  |                                     |
| Boiling point:   | The product is a non-volatile solid.  |                                     |
| Flash point:   | not applicable  |                                     |
| Evaporation rate:  | not applicable  |                                     |
| Flammability:  | not highly flammable  | (Directive 84/449/EEC, A.10)        |
| Lower explosion limit:   | 25 g/m <sup>3</sup><br>The lower explosion limit of dust has been determined. |                                     |
| Upper explosion limit:   | For solids not relevant for classification and labelling.                     |                                     |
| Vapour pressure:   | not applicable  |                                     |
| Relative vapour density (air):                                   | not applicable  |                                     |
| Solubility in water:   | dispersible   |                                     |
| Partitioning coefficient n-octanol/water (log K <sub>ow</sub> ): | not applicable  |                                     |
| Self ignition:   | Temperature: 248 °C   | (Method: Directive 92/69/EEC, A.16) |
| Thermal decomposition:   | No decomposition if stored and handled as prescribed/indicated.               |                                     |
| Viscosity, dynamic:  | not applicable, the product is a solid  |                                     |
| Explosion hazard:  | not explosive   |                                     |
| Fire promoting properties:                                       | not fire-propagating  | (Directive 92/69/EEC, A.17)         |

## 9.2. Other information

|               |  |
|---------------|--|
| Bulk density: | approx. 630 kg/m <sup>3</sup><br>(20 °C)<br>Apparent density after tamping |
|---------------|--|

## 10.0 STABILITY AND RELIABILITY

### 10.1. Reactivity

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

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

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

#### **10.4. Conditions to avoid**

See MSDS section 7 - Handling and storage.

#### **10.5. Incompatible materials**

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

#### **10.6. Hazardous decomposition products**

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

### **11.0 TOXICOLOGICAL INFORMATION**

#### **11.1. Information on toxicological effects**

##### 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 (Directive 84/449/EEC, B.1)  
No mortality was observed.

LC50 rat (by inhalation): > 5.7 mg/l 4 h (OECD Guideline 403)  
No mortality was observed. Tested as dust aerosol.

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: non-irritant (Directive 84/449/EEC, B.4)

Serious eye damage/irritation rabbit: non-irritant (Directive 84/449/EEC, B.5)

##### Respiratory/Skin sensitization

Assessment of sensitization:



There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: Skin sensitizing effects were not observed in animal studies. (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: Kresoxim-methyl*

*Assessment of carcinogenicity:*

*Indication of possible carcinogenic effect in animal tests.*

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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.

*Information on: Kresoxim-methyl*

*Assessment of reproduction toxicity:*

*The results of animal studies gave no indication of a fertility impairing effect.*

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#### 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.

*Information on: Kresoxim-methyl*

*Assessment of teratogenicity:*

*No indications of a developmental toxic / teratogenic effect were seen in animal studies.*

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#### 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.

## 12.0 ECOLOGICAL INFORMATION

### 12.1. Toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Toxicity to fish:

LC50 (96 h) approx. 0.15 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203, static)

Aquatic invertebrates:

EC50 (48 h) 0.31 mg/l, *Daphnia magna* (Directive 79/831/EEC, static)

Aquatic plants:

EC50 (72 h) 0.303 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201)

### 12.2. 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: kresoxim-methyl (ISO); methyl (E)-2-methoxyimino-[2-(o-tolyloxymethyl)phenyl]acetate*

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

*Poorly biodegradable.*

### 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

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

*Information on: kresoxim-methyl (ISO); methyl (E)-2-methoxyimino-[2-(o-tolyloxymethyl)phenyl]acetate*

*Bioaccumulation potential:*

*Bioconcentration factor: 220 (28 d), *Oncorhynchus mykiss* (OPP 72-6 (EPA-Guideline))*

*Accumulation in organisms is not to be expected.*

### 12.4. Mobility in soil



Assessment transport between environmental compartments:

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

*Information on: Kresoxim-methyl*

*Assessment transport between environmental compartments:*

*Volatility: The substance will not evaporate into the atmosphere from the water surface.*

*Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.*

### **12.5. Results of PBT and vPvB assessment**

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

### **12.6. Other adverse effects**

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### **12.7. Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

## **13.0 DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

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.

## **14.0 TRANSPORT INFORMATION**

### **Land transport**

ADR

UN number

UN3077

UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains KRESOXIM-METHYL 50%)



Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: Tunnel code: E

#### RID

UN number: UN3077  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains KRESOXIM-METHYL 50%)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

#### **Inland waterway transport**

##### ADN

UN number: UN3077  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains KRESOXIM-METHYL 50%)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

#### Transport in inland waterway vessel

Not evaluated

#### **Sea transport**

##### IMDG

UN number: UN 3077  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains KRESOXIM-METHYL 50%)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Marine pollutant: YES  
Special precautions for user: None known

#### **Air transport**



IATA/ICAO  
UN number: UN 3077  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains KRESOXIM-METHYL 50%)  
Transport hazard class(es): 9, EHS  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

#### **14.1. UN number**

See corresponding entries for "UN number" for the respective regulations in the tables above.

#### **14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

#### **14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### **14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### **14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### **14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

#### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Regulation: Not evaluated  
Shipment approved: Not evaluated  
Pollution name: Not evaluated  
Pollution category: Not evaluated  
Ship Type: Not evaluated

### **15.0 REGULATORY INFORMATION**

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Prohibitions, Restrictions and Authorizations



Annex XVII of Regulation (EC) No 1907/2006: Number on List: 28

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

This product may be subject to the Seveso II Directive and amendments if specific threshold tonnages are exceeded.

For further medical advice Doctors should contact the National Poisons Information Centre at Beaumont Hospital, Dublin.

### **15.2. Chemical Safety Assessment**

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

## **16.0 OTHER INFORMATION**

The information contained herein relates only to the specified material identified. CIBA AGRIPHARMA., believes that such information is accurate and reliable as of the data of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. CIBA AGRIPHARMA urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application. No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.