

# Material Safety Data Sheet

(according to 1907/2006/EC)



## FORTAFOL

Last update: 28/05/2014, Version 2.1

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

#### Product details

<b>Trade name:</b>	FORTAFOL
<b>Application of the preparation:</b>	FORTAFOL contains humic and fulvic acids and is considered a water based biostimulant, intended for dilution with water before foliar spray.
<b>Supplier:</b>	Koppert B.V. Veilingweg 14 2651 BE Berkel en Rodenrijs
<b>Telephone:</b>	+31 (0)10-5140444
<b>Fax:</b>	+31 (0)10-5115203
<b>E-mail:</b>	info@koppert.nl
<b>Website:</b>	www.koppert.com
<b>Anti poisoning Centre Emergency info:</b>	+31 (0)30-2748888
(Only for use by a Doctor in obtaining information by accidental poisoning)	

### 2 HAZARDS IDENTIFICATION

<b>Description of hazard:</b>	Can irritate eyes and skin. Not meant for human consumption.
<b>Special hints concerning hazards for the human and environment:</b>	So far as the usual regulations of industrial hygiene are adhered to, the product handling does not involve any appreciable risk. Neither involves the product any risk of fire or explosion.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

Water based biostimulant with humic and fulvic acids.

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### 4 FIRST AID MEASURES

<b>Inhalation:</b>	Avoid extensive inhalation.
<b>If the product has come into contact with he skin:</b>	Wash affected area with water.
<b>If the product has come into contact with the eyes:</b>	Rinse the eyes with lukewarm water, with eyelid opened. Seek medical assistance.
<b>If the product is ingested:</b>	Consult a physician and make this Safety Data Sheet available.
<b>Instruction for the physician:</b>	Specific measures to be taken are not known or documented. Carry out a symptomatic therapy.

### 5 FIRE FIGHTING MEASURES

Not applicable because the product is not inflammable.

### 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautionary measures:</b>	None. Leave the building or room and aerate the premises.
<b>Cleaning/picking-up method:</b>	Dilute large quantities of the material with water and dispose according local regulations.

### 7 HANDLING AND STORAGE

<b>Handling:</b>	Preventatively, protective clothing, neoprene gloves and anti-splash mask or goggles should be worn when handling the concentrated product. Work in a well-ventilated area to avoid excessive inhalation.
<b>Storage:</b>	Store the product out of direct sunlight, protected from frost, preferably in a cool place, Keep the container closed. The container is made out of HDPE.

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### **8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

<b>General protective and hygienic measures:</b>	Wash your hands after the work and before the breaks. Observe the rules of industrial hygiene.
<b>Respiratory protection:</b>	During application use appropriate masks
<b>Hand protection:</b>	Wear rubber protective gloves to avoid a repeated contact with the skin.
<b>Eye protection:</b>	Wear protective goggles in case of potential contact with the eyes, e.g. by splashing, spraying, etc.
<b>Body protection:</b>	Wear suitable work clothing if there is a risk of splashing or in case of potential contact with the body.

### **9 PHYSICAL AND CHEMICAL PROPERTIES**

#### **Appearance**

Shape:	Liquid
Odor:	Fresh herbal, mint like odor
Color:	Brownish
Formulation type:	Water based liquid
Boiling point:	100°C
Inflammability:	Not flammable
Explosion hazard:	Not explosive
Self-ignition:	Not self-ignitable
Fire-promoting properties:	None
Vapour pressure at 20 °C	3x 10E3 Pa
Density:	1.1 Kg dm <sup>-3</sup>
Solubility in water:	Soluble
Solubility in organic solvents:	Soluble
pH value:	4
Viscosity at 20 °C:	2x 10E3Pa s

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### **10 STABILITY AND REACTIVITY**

**Conditions to be avoided:**

Once opened, the product has limited storability. Don't freeze.

**Substances to be avoided:**

None

**Hazardous decomposition products:**

None

### **11 TOXICOLOGICAL INFORMATION**

**Acute oral toxicity of formulated product:**

LD50 Rat > 5.000 - 20.000 mg/kg (derived from literature). "*Practically non-toxic for humans*" according the scale of Hodge & Sterner.

**Acute dermal toxicity of formulated product:**

LD50 Rat > 20.000 mg/kg (derived from literature). "*Relatively harmless for humans*" according the scale of Hodge & Sterner.

**Assessment based on raw materials:**

Normal exposure quantities when handling the pure product are far below acute toxicity limits, even when complete absorption is assumed.

**Experience gained in practice; effects on humans:**

No adverse health effect has been observed or reported.

**Inhalation:**

No adverse health effect has been observed or reported.

**Ingestion:**

No adverse health effect has been observed or reported.

**Skin:**

Some skin irritation is possible in case of continuous or repeated contact with the skin

**Eyes:**

Direct contact with the surface of the eye may cause irritation. Eye protection is then recommended

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### **12 ECOLOGICAL INFORMATION**

This product dissolves in water and is fully decomposable. However, as with every product, avoid excessive drainage of pure product to natural habitats.

### **13 DISPOSAL CONSIDERATIONS**

<b>Precautions:</b>	Wear suitable protective clothing
<b>Product disposal:</b>	Comply with the local legislation regarding recovery or waste disposal
<b>Contaminated packaging:</b>	In case of re-use or disposal of contaminated containers, the recipient should be informed with the possible hazards of the preparation.

### **14 TRANSPORT INFORMATION**

No special instructions. The product is from natural origin. No ADR, UN, or Class numbers required. Fertiliser code: TARIC and HTS code: 3101 0000 00.

### **15 REGULATORY INFORMATION**

<b>Label name:</b>	FORTAFOL
<b>Symbol(s):</b>	None
<b>R(isk) phrase(s):</b>	None
<b>S(afety) phrase(s):</b>	None

### **16 OTHER INFORMATION**

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. This document contains important information regarding a safe disposal, handling and use of this product. The information should be brought to the attention of the health / safety / environment-consultant of your organisation. The information from this document should be announced to anyone working with this product. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains to the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.