

# Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 with amendments



## FoliaStim® Cu Mn Liquid

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form: Mixture

Trade name: Van Iperen FoliaStim® Cu Mn Liquid

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Main use category : Professional use

Use of product : Fertiliser

##### 1.2.2. Uses advised against

Restrictions on use : No supplementary information available

#### 1.3. Details of the supplier of the safety data sheet

Van Iperen International BV

Smidsweg 24

3273 LK Westmaas - Nederland

T +31 (0) 186 578 888 - F +31 (0) 186 573 452

[info@iperen.com](mailto:info@iperen.com) - [www.vaniperen.com](http://www.vaniperen.com)

#### 1.4. Emergency telephone number

In case of emergency contact the national emergency telephone number: UK and Ireland: 112 or 999

Country	Official advisory body	Address	Emergency number
Ireland (Republic of)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319

Full text of hazard classes and H-statements : see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP): GHS07



CLP Signal word

: Warning

Hazardous ingredients

: Copper chelate EDTANa2

Hazard statements (CLP)

: H319 - Causes serious eye irritation

Precautionary statements (CLP)

: P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves, protective clothing, eye protection

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 - If eye irritation persists: Get medical advice/attention

#### 2.3. Other hazards

Other hazards not contributing to the classification: None under normal conditions.

This mixture does not meet the PBT and/or vPvB-criteria of REACH regulation, annex XIII

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Copper chelate EDTANa2	(CAS-No.) 14025-15-1 (EC-No.) 237-864-5 (REACH-no) 01-2119963944-23	10 - 15	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	:	Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
First-aid measures after inhalation	:	Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	:	Rinse with water. Soap may be used. Remove all contaminated clothing and footwear. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	:	Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion	:	If victim conscious and alert, give 1-2 glasses of water to drink. Do NOT induce vomiting. Immediately consult a doctor/medical service.

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

Symptoms/effects after inhalation	:	Slight irritation. Exposure to high concentrations: irritation of the respiratory tract, dry/sore throat, coughing, respiratory difficulties.
Symptoms/effects after skin contact	:	Slight irritation. Red skin.
Symptoms/effects after eye contact	:	Redness of the eye tissue. Slight irritation. Visual disturbances.
Symptoms/effects after ingestion	:	Nausea. Vomiting.
Chronic symptoms	:	On continuous/repeated exposure/contact: dry skin. skin rash/inflammation.

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

Follow the advices in chapter 4.1. Treat symptomatically

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	:	Extinguishing media for surrounding fires : All extinguishing media allowed. Use fire extinguishing methods suitable to surrounding conditions.
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#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	:	Direct fire hazard: Non combustible.
Explosion hazard	:	No direct explosion hazard.
Hazardous decomposition products in case of fire	:	On heating/burning: release of toxic and corrosive gases/vapours (nitrous vapours), and formation of metallic fumes

#### 5.3. Advice for firefighters

Precautionary measures fire	:	Exposure to fire/heat: keep upwind, consider evacuation and have neighbourhood close doors and windows.
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Firefighting instructions	:	Dilute toxic gases with water spray.
Protection during firefighting	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

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

General measures	:	Ensure adequate air ventilation. Do not get in eyes, on skin, or on clothing. Keep away from naked flames/heat.
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##### 6.1.1. For non-emergency personnel

Protective equipment	:	Wear protective gloves/protective clothing/eye protection as advised in section 8.
Emergency procedures	:	Mark the danger area. No naked flames. Keep containers closed. Wash contaminated clothes.

##### 6.1.2. For emergency responders

Protective equipment	:	Wear protective gloves/protective clothing/eye protection as advised in section 8.
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#### 6.2. Environmental precautions

Stop leaks if possible. Dam up the liquid spill. Prevent spreading in sewers. Prevent soil and water pollution. Contain leaking substance, pump over in suitable containers. Turn leaking containers leak-side up to prevent the escape of liquid. Notify authorities if product enters sewers or public waters.

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

For containment	:	Any spillage should be cleaned up immediately. Collect spill in closed and suitable containers for disposal. Take up rest of liquid spill into absorbent material sand, earth, vermiculite. Scoop absorbed substance into closing containers.
Methods for cleaning up	:	Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
Other information	:	Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

See section 1 for emergency contact information.

See section 8 for information on appropriate personal protective equipment.

See section 13 for additional waste treatment information

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling	:	Use sufficient ventilation. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection as advised in section 8.
Hygiene measures	:	Do not eat, drink or smoke during use. Always wash hands after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Care for eyewashstations at the workplace. Keep away from food, drink and animal feedingstuffs. Do not discharge the waste into the drain.

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

Storage conditions	:	Keep preferably in the original container.
Storage temperature	:	0 - 30 °C
Storage area	:	Store in dry, cool, well-ventilated area. Keep out of direct sunlight.
Special rules on packaging	:	Meet the legal requirements. correctly labelled. closing. Secure fragile packagings in solid containers.
Packaging materials	:	Suitable material: synthetic material, HDPE, Stainless steel

#### 7.3. Specific end use(s)

No data available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Copper chelate EDTANa2 (14025-15-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	3750 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.8 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	0.45 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	1875 mg/kg bodyweight/day
PNEC (Water)	

Copper chelate EDTANa2 (14025-15-1)	
PNEC aqua (freshwater)	2.95 mg/l
PNEC aqua (marine water)	0.3 mg/l
PNEC aqua (intermittent, freshwater)	1.09 mg/l
PNEC (Soil)	
PNEC soil	0.21 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	65.4 mg/l

#### 8.2. Exposure controls

Appropriate engineering controls  
Personal protective equipment

: Ensure good ventilation of the work station. Care for eyewashstations at the workplace.  
: Protective clothing. Gloves. Safety glasses.



Hand protection  
Material selection gloves

: Gloves  
: Take advice to your gloves' supplier. Non suitable materials are leather gloves

### SECTION 9: Physical and chemical properties

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

Physical state	:	Liquid
Appearance	:	Liquid.
Colour	:	Dark brown.
Odour	:	Characteristic.
Odour threshold	:	No data available
pH	:	5 - 6
Crystallization temperature	:	-5 °C
Vapour pressure	:	2300 Pa
Density	:	1.16 kg/l
Solubility	:	Water: complete
Log Pow	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No (test)data available
Explosive properties	:	Not explosive.

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Oxidising properties : Not oxidising.

### 9.2 Other information

Additional information : Refer to product datasheet

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions. May give slightly sedimentation after some time.

### 10.3. Possibility of hazardous reactions

Thermal decomposition can lead to the escape of irritating gases and vapours (oxides of nitrogen).

This product can react with strong reducing or oxidizing agents. May react violently with acids and with (some) bases.

### 10.4. Conditions to avoid

Avoid high temperatures. Keep out of frost.

### 10.5. Incompatible materials

Keep substance away from: oxidizing agents.

### 10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, ammonia, carbon monoxide - carbon dioxide).

## SECTION 11: Toxicological information

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Copper chelate EDTANa2 (14025-15-1)	
LD50 oral rat	890 mg/kg

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 5 - 6
Serious eye damage/irritation	: Causes serious eye irritation. pH: 5 - 6
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Classification concerning the environment: not applicable.

### 12.2 Persistence and degradability

FoliaStim Cu Mn Liquid	
Persistence and degradability	Not readily biodegradable in water.

### 12.3 Bioaccumulative potential

FoliaStim Cu Mn Liquid	
Bioaccumulative potential	Bioaccumulation: not applicable.

### 12.4 Mobility in soil

FoliaStim Cu Mn Liquid	
Ecology - soil	Soluble in water.

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### 12.5 Results of PBT and vPvB assessment

#### FoliaStim Cu Mn Liquid

This mixture does not meet the PBT- and/or vPvB- criteria of REACH regulation, annex XIII

### 12.6 Other adverse effects

Additional information : Avoid release to the environment

## SECTION 13: Disposal considerations

### European List of Waste (LoW) code:

02 01 09 - agrochemical waste other than those mentioned in 02 01 08

Depending on branch of industry and production process, also other EURAL codes may be applicable

### Regional legislation (waste):

Disposal must be done according to official regulations.

### Waste treatment methods:

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

### Product/Packaging disposal recommendations:

Do not discharge into drains or the environment. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

### Additional information:

The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

## SECTION 14: Transport information

### 14.1 UN number

Not regulated for transport

### 14.2 UN proper shipping name

Not applicable

### 14.3 Transport hazard class(es)

Not applicable

### 14.4 Packing group

Not applicable

### 14.5 Environmental hazards

Dangerous for the environment: No

No supplementary information available

### 14.6 Special precautions for user

No data available

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list. Contains no REACH Annex XIV substances

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this preparation were carried out

## SECTION 16: Other information

Version : 1.1 according to Regulation (EU) 2015/830  
Revision date : 17/03/2017  
Date of issue : 01/06/2015

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Supersedes : 01/06/2017  
Indication of changes : Refer table below.

1.2	Restrictions on use	Added	
7.3	Specific end uses	Modified	
8.2	Hand protection	Modified	

ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Data sources : BIG-database.  
ECHA Website: Information on Registered Substances.  
Handbook of Chemistry and Physics CRC Press Inc.  
Information from suppliers

Training advice : Before using/handling the product one must read carefully the MSDS.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed
H319	Causes serious eye irritation

### Company disclaimer

*The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any proceed, unless specified in the text.*