## **SAFETY DATA SHEET**

#### HA 413

This safety data sheet complies with the requirements of: Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008



SDS #: HA413-A

Revision date: 2018-07-23

Format: EU Version 1.01

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Code(s) HA413-A

Product Name HA 413

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

Recommended Use: A micronutrient suspension concentrate for use in agriculture

**Restrictions on use**Use as recommended by the label.

1.3. Details of the supplier of the safety data sheet

<u>Manufacturer</u> FMC Agro Limited

Rectors Lane Pentre Flintshire CH5 2DH United Kingdom

Tel: + 44 (0) 1244 537370 E-mail: fmc.agro.uk@fmc.com

For further information, please contact:

**Contact point** Tel: +44(0)1244 537370

Email: fmc.agro.uk@fmc.com

1.4. Emergency telephone number

Emergency telephone Tel: +44(0)1244 537370 (Office hours only)

# Section 2: HAZARDS IDENTIFICATION

## **2.1. Classification of the substance or mixture** Regulation (EC) No 1272/2008

Hazard symbol not required.

Chronic aquatic toxicity Category 3

EUH208: Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.

## 2.2. Label elements

## **Hazard pictograms**

Hazard symbol not required.

## Signal Word

None

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#### **Hazard Statements**

H412 - Harmful to aquatic life with long lasting effects

EUH208: Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.

#### **Precautionary Statements**

P273 - Avoid release to the environment

P501: Dispose of contents/container as hazardous waste.

#### 2.3. Other hazards

This product is not identified as a PBT/vPvB substance.

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Chemical name	EC-No	CAS-No	Weight percent	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Zinc oxide	215-222-5	1314-13-2	1-5	Aquatic Acute 1 (H400)	01-2119463881-32-
				Aquatic Chronic 1 (H410)	XXXX

# Additional Information

Contains 1,2-Benzisothiazolin-3-one (CAS number 2634-33-5) at a level below the concentration limit for classification of the mixture as sensitising.

# **Section 4: FIRST AID MEASURES**

## 4.1. Description of first aid measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call

a doctor if irritation persists.

**Skin Contact** Wash off immediately with soap and plenty of water. If symptoms persist, call a doctor.

**Inhalation** Remove person from exposure ensuring one's own safety while doing so.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Consult a doctor if necessary.

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

Most important symptoms and effects, both acute and delayed

Skin contact: May see mild irritation at the site of contact.

Eye contact: Possible irritation and redness.

Ingestion: Possible irritation of the throat.

Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.

Delayed/Immediate effects: Immediate effects can be expected after short-term exposure.

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

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

# **Section 5: FIREFIGHTING MEASURES**

## 5.1. Extinguishing media

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## **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Using spraywater to cool the containers.

#### Unsuitable extinguishing media

No information available

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

Thermal decomposition can lead to release of irritating gases and vapours.

**Hazardous Combustion** 

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

**Products** 

## 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear. Wear protective clothing to prevent contact with skin and eyes. Contaminated fire extinguishing water should not be discharged into drains, if preventable.

# Section 6: ACCIDENTAL RELEASE MEASURES

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

#### **Personal Precautions**

For personal protection see section 8. Isolate and post spill area. In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. Stop leak if you can do it without risk. In the case of large spills (1 ton or more), alert the appropriate authorities.

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#### For emergency responders

Use personal protection recommended in Section 8.

#### 6.2. Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding. Accidental release into water courses must be alerted to the appropriate regulatory body.

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

Methods for Containment Surface drains within close vici

Surface drains within close vicinity of the spill should be covered. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see

Section 13).

**Methods for cleaning up** Pick up and transfer to properly labelled containers.

## 6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

# Section 7: HANDLING AND STORAGE

# 7.1. Precautions for safe handling

## Handling

Ensure adequate ventilation.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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

# Storage

Protect from freezing. Store above 5°C. Keep away from direct sunlight. Keep away from heat. Keep out of reach of children and animals. Keep away from food, drink and animal feedingstuffs.

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# 7.3. Specific end use(s)

# Specific Use(s)

No data available.

#### **Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Chemical name	European Union	The United Kingdom	France	Spain	Germany
Zinc oxide	=	TWA 52 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup>	TWA 2 mg/m <sup>3</sup>	=
1314-13-2		(vapour)	TWA 10 mg/m <sup>3</sup>	STEL 10 mg/m <sup>3</sup>	
		STEL 104 mg/m <sup>3</sup>	_	_	
		(vapour)			
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
Zinc oxide	=	TWA 2 mg/m <sup>3</sup>	=	TWA 2 mg/m <sup>3</sup>	TWA 4 mg/m <sup>3</sup>
1314-13-2		STEL 10 mg/m <sup>3</sup>		STEL 10 mg/m <sup>3</sup>	
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Zinc oxide	TWA 5 mg/m <sup>3</sup>	TWA 3 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup>	TWA 2 mg/m <sup>3</sup>
1314-13-2		STEL 3 mg/m <sup>3</sup>	STEL 10 mg/m <sup>3</sup>	STEL 10 mg/m <sup>3</sup>	STEL 10 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)**No information available.

Predicted No Effect Concentration

(PNEC)

No information available.

8.2. Exposure controls

**Engineering measures** Ensure adequate ventilation.

Personal protective equipment

Eye/Face Protection Safety glasses with side-shields. Maintain eye wash fountain and quick-drench facilities in

work area.

**Hand Protection** Protective gloves. PVC gloves. Impervious butyl rubber gloves. Nitrile rubber.

**Skin and Body Protection** Wear suitable protective clothing.

**Respiratory Protection** Not required under normal use.

**Environmental exposure controls** Refer to specific Member State legislation for requirements under Community

environmental legislation.

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on basic physical and chemical properties

Physical State Liquid Appearance Opaque

**Odour** Barely perceptible

Colour Brown

Odour threshold No information available

**pH** 9.5 - 10.5

Melting point/freezing point
Boiling point/boiling range
Flash point
Evaporation Rate
Flammability (solid, gas)

No information available
No information available
No information available
No information available

Flammability Limit in Air

Upper flammability limit: No information available

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Lower flammability limitNo information availableVapour pressureNo information availableVapour densityNo information available

Specific gravity 1.69 - 1.73

Water solubility Dispersible in water Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Viscosity, kinematic No information available Viscosity, dynamic No information available **Explosive properties** No information available **Oxidising properties** No information available

9.2. Other information

Softening point
Molecular weight
VOC content (%)
Density
Bulk density
No information available

# **Section 10: STABILITY AND REACTIVITY**

## 10.1. Reactivity

Stable under recommended storage conditions

#### 10.2. Chemical stability

Stable under recommended storage conditions.

## **Explosion data**

**Sensitivity to Mechanical Impact** No information available. **Sensitivity to Static Discharge** No information available.

### 10.3. Possibility of hazardous reactions

# Hazardous polymerisation

Hazardous polymerization does not occur.

#### Hazardous reactions

None under normal processing. Decomposition may occur on exposure to conditions or materials listed below.

## 10.4. Conditions to avoid

Heat.

# 10.5. Incompatible materials

Strong oxidising agents. Strong acids.

## 10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours: Carbon monoxide (CO). Carbon dioxide (CO2).

# Section 11: TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

## **Acute toxicity**

## **Product Information**

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Product does not present an acute toxicity hazard based on known or supplied information.

LD50 Oral > 5000 mg/kg (rat) (Calculated Estimated Acute Toxicity - EAT)

Skin corrosion/irritation
Serious eye damage/eye irritation
Sensitisation

Sensitisation Mutagenicity Carcinogenicity No information available. No information available. No information available No information available. No information available.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure

No information available. No information available. No information available.

Symptoms May cause an allergic reaction in individuals already sensitised to

1,2-Benzisothiazolin-3-one.

Skin contact: May see mild irritation at the site of contact.

Eye contact: Possible irritation and redness.

Ingestion: Possible irritation of the throat.

Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.

Delayed/Immediate effects: Immediate effects can be expected after short-term exposure.

**Aspiration hazard** No information available.

# **Section 12: ECOLOGICAL INFORMATION**

# 12.1. Toxicity

There is no data available for this product.

# 12.2. Persistence and degradability

No information available.

## 12.3. Bioaccumulative potential

No information available.

## 12.4. Mobility in soil

# Mobility in soil

No information available.

## 12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

## 12.6. Other adverse effects

Harmful to aquatic life

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# Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused

products

Transfer to a suitable container and arrange for collection by specialised disposal company. Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not

discharge to sewer systems.

Contaminated Packaging Clean container with water. Dispose of rinse water in accordance with local and national

guidelines. Dispose of in accordance with local regulations.

EWC Waste Disposal No 02 01 08

**OTHER INFORMATION** NOTE: The user's attention is drawn to the possible existence of specific European,

national or local regulations regarding disposal.

# Section 14: TRANSPORT INFORMATION

NOTE NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT

REGULATIONS.

IMDG/IMO

14.1 UN/ID noNot regulated14.2 Proper Shipping NameNot regulated14.3 Hazard classNot regulated14.4 Packing GroupNot regulated14.5 Marine PollutantNot applicable

14.6 Special Provisions None

14.7 Transport in bulk according to The product is not transported in bulk containers.

Annex II of MARPOL and the IBC

Code

<u>RID</u>

14.1 UN/ID noNot regulated14.2 Proper Shipping NameNot regulated14.3 Hazard classNot regulated14.4 Packing GroupNot regulated14.5 Environmental HazardNot applicable

14.6 Special Provisions None

ADR/RID

14.1 UN/ID noNot regulated14.2 Proper Shipping NameNot regulated14.3 Hazard classNot regulated14.4 Packing GroupNot regulated14.5 Environmental HazardNot applicable

**14.6 Special Provisions** None

ICAO/IATA

14.1 UN/ID noNot regulated14.2 Proper Shipping NameNot regulated14.3 Hazard classNot regulated14.4 Packing GroupNot regulated14.5 Environmental HazardNot applicable

14.6 Special Provisions None

# **Section 15: REGULATORY INFORMATION**

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

#### **European Union**

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not Applicable

# Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not Applicable

## **International Inventories**

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Zinc oxide 1314-13-2	Х	Х	X	Х	Х	Х	Х	Х

#### 15.2. Chemical safety assessment

A Chemical Safety Assessment has not yet been completed for this substance

# **Section 16: OTHER INFORMATION**

## Key or legend to abbreviations and acronyms used in the safety data sheet

# Full text of R-phrases referred to under sections 2 and 3

Not applicable

## Full text of H-Statements referred to under sections 2 and 3

H410 - Very toxic to aquatic life with long lasting effects H412 - Harmful to aquatic life with long lasting effects

EUH208 - May produce an allergic reaction

**Legend** 

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: CAS (Chemical Abstracts Service)

Ceiling: Maximum limit value:

**DNEL:** Derived No Effect Level (DNEL)

**EINECS**: EINECS (European Inventory of Existing Chemical Substances)

GHS: Globally Harmonised System (GHS)

IATA: International Air Transport Association (IATA)
ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods (IMDG)

LC50: LC50 (lethal concentration)

LD50: LD50 (lethal dose)

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

STEL: Short term exposure limit

**SVHC**: Substances of Very High Concern for Authorisation:

**TWA:** time weighted average

vPvB: very Persistent and very Bioaccumulative

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#### **Disclaimer**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Prepared By

**FMC** Corporation

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**End of Safety Data Sheet**