## SAFETY DATA SHEET

## **MAGNUS PRO**

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



SDS #: NP-0218-A

Revision date: 2018-07-18

Format: EU Version 1.02

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

Product Code(s) NP-0218-A

Product Name MAGNUS PRO

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

Skin corrosion/irritation Category 2 (H315)

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

2.2. Label elements

Hazard pictograms



**SDS #**: NP-0218-A **Revision date**: 2018-07-18

Version 1.02

Signal Word WARNING

#### **Hazard Statements**

H315 - Causes skin irritation

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

## **Precautionary Statements**

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P362 - Take off contaminated clothing and wash before reuse

#### 2.3. Other hazards

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

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

The product is a mixture, not a substance.

## 3.2 Mixture containing the following hazardous ingredients:

Chemical name	EC-No	CAS-No	Weight percent	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Sulphur powder	231-722-6	7704-34-9	10-30	Skin Irrit. 2 (H315)	01-2119487295-27-
(ground)					XXXX
ethane-1,2-diol	203-473-3	107-21-1	1-5	Acute Tox. 4 (H302)	01-2119456816-28-
				STOT RE 2: (H373)	XXXX

#### **Additional Information**

For the full text of the H-, R- and EUH- phrases mentioned in this Section, see Section 16.

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 Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Call a doctor if

irritation persists.

**Skin Contact** Immediately remove all stained or splashed clothing that is not adhering to the skin. 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 Clean mouth with water. Do not induce vomiting. If conscious, give 2 glasses of water. Get

immediate medical attention. If vomiting does occur, rinse mouth and drink fluids again.

## 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.

**SDS #**: NP-0218-A **Revision date:** 2018-07-18

Version 1.02

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. An itchy rash may occur at the site of contact. May cause an allergic reaction in individuals already sensitised to 1,2-Benzisothiazolin-3-one.

### 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

## **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool containers / tanks with water spray.

#### Unsuitable extinguishing media

No information available

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

Toxic fumes may be released in fire situations.

Hazardous Combustion

Sulphur oxides.

**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.

# **Section 6: ACCIDENTAL RELEASE MEASURES**

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

## **Personal Precautions**

For personal protection see section 8. Stop leak if you can do it without risk. In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. Keep people away from and upwind of spill/leak.

For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

## 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 vicinity of the spill should be covered. Dike to confine spill and

absorb with non-combustible absorbent such as clay, sand or soil.

Methods for cleaning up 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).

#### 6.4. Reference to other sections

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

SDS #: NP-0218-A

Revision date: 2018-07-18 Version 1.02

# **Section 7: HANDLING AND STORAGE**

## 7.1. Precautions for safe handling

#### Handling

Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing.

## 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 in a dry, cool and well-ventilated place. 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.

## 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
ethane-1,2-diol	TWA 20 ppm	STEL 40 ppm	TWA 20 ppm	TWA 20 ppm	-
107-21-1	TWA 52 mg/m <sup>3</sup>	STEL 104 mg/m <sup>3</sup>	TWA 52 mg/m <sup>3</sup>	TWA 52 mg/m <sup>3</sup>	
	STEL 40 ppm	STEL 30 mg/m <sup>3</sup>	STEL 40 ppm	STEL 40 ppm	
	STEL 104 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	STEL 104 mg/m <sup>3</sup>	STEL 104 mg/m <sup>3</sup>	
	S*	TWA 20 ppm	P*	S*	
		TWA 52 mg/m <sup>3</sup>			
		Skin			
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
ethane-1,2-diol	TWA 20 ppm	TWA 20 ppm	Huid*	TWA 20 ppm	TWA 10 ppm
107-21-1	TWA 52 mg/m <sup>3</sup>	TWA 52 mg/m <sup>3</sup>	STEL 104 mg/m <sup>3</sup>	TWA 50 mg/m <sup>3</sup>	TWA 26 mg/m <sup>3</sup>
	STEL 40 ppm	STEL 40 ppm	TWA 52 mg/m <sup>3</sup>	STEL 40 ppm	TWA 10 mg/m <sup>3</sup>
	STEL 104 mg/m <sup>3</sup>	STEL 104 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	STEL 100 mg/m <sup>3</sup>	H*
	Pelle*	Ceiling 100 mg/m <sup>3</sup>		iho*	
		C(A4)			
		P*			
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
ethane-1,2-diol	H*	SS-C**	TWA 15 mg/m <sup>3</sup>	TWA 20 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>
107-21-1	STEL 20 ppm	H*	STEL 50 mg/m <sup>3</sup>	TWA 52 ppm	TWA 20 ppm
	STEL 52 mg/m <sup>3</sup>	TWA 10 ppm	_	TWA 52 mg/m <sup>3</sup>	TWA 52 mg/m <sup>3</sup>
	TWA 10 ppm	TWA 26 mg/m <sup>3</sup>		S*	STEL 40 ppm
	TWA 26 mg/m <sup>3</sup>	STEL 20 ppm		STEL 104 mg/m <sup>3</sup>	STEL 104 mg/m <sup>3</sup>
		STEL 52 mg/m <sup>3</sup>		STEL 40 ppm	Skin

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

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

**Eye/Face Protection** Safety glasses with side-shields. Provide emergency on-site eyewash.

**SDS #**: NP-0218-A

**Revision date:** 2018-07-18

Version 1.02

Hand Protection Protective gloves. Impervious butyl rubber gloves. Wear chemical protective gloves made of

materials such as nitrile or neoprene.

**Skin and Body Protection** Wear protective gloves/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 No information available

Odour Sulphurous Colour Yellow

Odour threshold No information available

**pH** 10.0 - 11.0

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:
Lower flammability limit
Vapour pressure
Vapour density

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

Specific gravity 1.43 - 1.45

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 No information available **Explosive properties** Oxidising properties Non-oxidizing (by EC criteria)

9.2. Other information

Softening point

Molecular weight

VOC content (%)

Density

Bulk density

No information available

# **Section 10: STABILITY AND REACTIVITY**

## 10.1. Reactivity

None under normal use 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

**SDS #**: NP-0218-A

**Revision date: 2018-07-18** 

Version 1.02

## 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

May emit toxic fumes under fire conditions. See Section 5.2 for more information.

## Section 11: TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

## **Acute toxicity**

#### **Product Information**

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

Chemical name	Chemical name LD50 Oral		Inhalation LC50		
Sulphur powder (ground)	> 2000 mg/kg (Rat)	> 2000 mg/kg ( Rabbit )	> 9.23 mg/L (Rat) 4 h		

Skin corrosion/irritationNo information available.Serious eye damage/eye irritationNo information available.SensitisationNo information available.MutagenicityNo information available.CarcinogenicityNo information available.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Symptoms 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. An itchy rash may occur at the site of contact. May cause an allergic reaction in individuals

already sensitised to 1,2-Benzisothiazolin-3-one.

**Aspiration hazard** No information available.

SDS #: NP-0218-A

**Revision date:** 2018-07-18

Version 1.02

# **Section 12: ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

There is no data available for this product.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Sulphur powder (ground)	-	96 h LC50: = 866 mg/L (Brachydanio rerio) static 96 h LC50: < 14 mg/L (Lepomis macrochirus) static 96 h LC50: > 180 mg/L (Oncorhynchus mykiss) static	-

#### 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

Negligible

# **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. Alternatively, the product can be sent for water treatment. Diluted product and washings

should also be sent for water treatment.

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

guidelines. Empty containers should be taken to an approved waste handling site for

recycling or disposal.

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**

NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT

REGULATIONS.

**SDS #:** NP-0218-A

Version 1.02

**Revision date: 2018-07-18** 

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 tankers.

Annex II of MARPOL and the IBC

Code

RID

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

14.6 Special Provisions None

ADR/RID

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

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

National regulations Not applicable

## **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**

Chemi	cal name	TSCA	DSL	EINECS/ELINC	ENCS	China	KECL (Korea)	PICCS	AICS
		(United	(Canada)	S (Europe)	(Japan)	(IECSC)		(Philippines)	(Australia)

**SDS #:** NP-0218-A

**Revision date: 2018-07-18** 

Version 1.02

	States)							
Sulphur powder (ground) 7704-34-9	Х	Х	Х		Х	Х	Х	Х
ethane-1,2-diol 107-21-1	Х	Х	Х	Х	Х	X	Х	Х

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## **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

EUH208 - May produce an allergic reaction

H302 - Harmful if swallowed H315 - Causes skin irritation

H373 - May cause damage to organs through prolonged or repeated exposure

<u>Legend</u>

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

Revision date: 2018-07-18

**Reason for revision:** Format Change.

#### 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**