



SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1272/2008 (REACH) Annex II

MAGIC		
Revision Date	01-February-2019	Version 1
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

MAGIC

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

Recommended Use	Fungicide
Uses advised against	No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address	JT Agro Ltd 1 Bell Street, Maidenhead, Berkshire, SL6 1BU, U.K. Tel: +44 1628 421599 Fax: +44 1628 421623
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For further information, please contact

Email address	info@jtagro-cropthetics.com
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1.4. Emergency telephone number

Emergency Telephone	National Chemical Emergency Centre (UK): Tel: 01865 407333 (24 hours)
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Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

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

Reproductive toxicity	Category 2 - (H361d)
Acute aquatic toxicity	Category 1 - (H400)
Hazardous to Aquatic Environment- Chronic Hazard	Category 1 - (H410)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Repr. Cat, 3; R63-N, R50/53

2.2. Label elements

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

Hazard pictograms



Signal Word

Warning

Hazard Statements

H361d - Suspected of damaging the unborn child
 H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements

P102 - Keep out of reach of children
 P201 - Obtain special instructions before use
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P501 - Dispose of contents/ container to an approved waste disposal plant***

EU Specific Hazard Statements

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use
 EUH208 - Contains Fluazinam and 1,2-Benzisothiazolin-3-one. May produce an allergic reaction***

Additional phrases for PPP

SP1 - Do not contaminate water with the product or its container

2.3. Other hazards

No information available

Section 3: COMPOSITION/ INFORMATION ON INGREDIENTS

3.1. Mixtures

Chemical Name	Weight-%	CAS No	EC No	Index No	Classification according to Regulation (EC) No.	Classification according to 67/548/EEC	M-Factor	REACH Registration
Fluazinam	38-42	79622-59-6	451-560-1***	612-287-00-5***	Acute Tox. 4 (H332) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Repr. 2 (H361d) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Xn; R20 Xi; R41 R43 Repr. Cat. 3; R63 N; R50-53***	M=10 M=10***	-
Poly(oxy-1,2-ethanediy l), alpha-sulfo-omega-[tris(1-phenylethyl)phenoxy - ammonium salt	1.5-2.5	119432-41-6	-	-	Aquatic Chronic 3 (H412)	R52-53		-

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	In case of accident or unwellness, seek medical advise immediately (show directions for use of safety data sheet if possible). First aider: Pay attention to self-protection.
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eyes. Get medical attention if irritation develops and persists. Call a physician.
Ingestion	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician
Self- protection of the first aider	Use personal protective equipment as required.

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

Symptoms	None known
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical, Carbon dioxide (CO ₂), Water spray or fog, Foam
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Unsuitable Extinguishing Media	No information available.
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5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus

In the event of fire and /or explosion do not breath fumes

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other Sections

Other Information

see section 8, 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

7.3. Specific end use(s)

Risk Management Method (RMM) The information required is contained in this Material Safety Data Sheet

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Derived No Effect Level (DNEL) No information available

Predicated No Effect Concentration (PNEC) No information available

8.2. Exposure controls

Engineering Controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye/face protection	Tight sealing safety goggles.
Body Protection	Suitable protective clothing.
General Hygiene Considerations	When using do not eat, drink or smoke. Wash contaminated clothing before reuse.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<u>Property</u>	<u>Values</u>	<u>Methods</u>	<u>Remarks</u>
Appearance:			
Physical state:	Liquid		
Colour:	Yellow		
Odour:	Slight Characteristic		
Odour Threshold:	No data available		
pH:	6.7 - 7.7	CIPAC MT 75.3	solution (1%)
Melting point/freezing point °C:	No data available		
Boiling point/boiling point °C:	No data available		Decomposes
Flash point °C:	>79	CIPAC MT 12.2	
Evaporation rate:	Not applicable		
Flammability (solid, gas):	Not applicable		
Upper/lower flammability or Explosive limits	No data available		
Vapor pressure KPa:	7.1 x 10 ⁻⁶ Pa	OCED 10	
Vapor density:	No data available		
Relative density:	1.23-1.33***	CIPAC MT 3.32	20 °C
Solubility(ies) mg/l:	No data available		
Partition Coefficient: (n-octanol/water) log Pow			SEE SECTION 12
Autoignition temperature °C:	> 600	EEC A_2	
Decomposition temperature °C:	148	OCED 113	
Kinematic Viscosity mm²/s 40 °C:	Not applicable		
Explosive properties:	No		
Oxidizing properties:	No		

9.2. Other information

Bulk density g/ml:	-		Not Applicable
Surface tension mN/m:	36.2 mN/m		25 °C

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition

None under normal use condition.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity	Values	Species	Method	Remarks
Oral LC50 mg/kg	>2000	Rat	OECD 423	Maximum attainable concentration
Dermal LD50 mg/kg	>2000	Rat	OECD 402	
Inhalation LC50 mg/l/4h	>4.82	Rat	OECD 403	
Skin corrosion/irritation	Non-irritating to skin	Rabbit	OECD 404	
Serious eye damage/ eye irritation	Non-irritating to eyes	Rabbit	OECD 405	
Respiratory/ skin sensitization	Not a skin sensitizer***	Guinea Pig	OECD 406	Skin

Chronic toxicity

Values

Germ cell mutagenicity chemical name

Fluazinam Not Classified

Carcinogenicity Chemical Name

Fluazinam Not Carcinogenic

Reproductive toxicity Chemical Name

Fluazinam H361D - Suspected of damaging the unborn child***

STOT-single exposure Chemical Name

Fluazinam no data available***

STOT-repeated exposure Chemical Name

Fluazinam no data available***

Aspiration hazard Chemical Name

Fluazinam no data available***

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

Acute toxicity	Values	Species	Method	Remarks
Fish 96-hour LC50 mg/l:	0.236	Oncorhynchus Mykiss	92/69/EC C.1 L383A/179	Static
Crustacea 48- hour EC50 mg/l:	0.36	Daphina magna	OECD 202	
Algae 72-hour EC50 mg/l:		P. subcapitata	OECD 201	
Other plants EC50 mg/l:			***	No data available

Terrestrial Toxicity

Birds Oral LD50 mg/kg:

Chemical Name

Fluazinam:	1782	Bobwhite quail	US EPA 71-1***
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Bees Oral LD50 mg/bee

Chemical Name

Fluazinam:	98.9***		OECD 213 OECD214***
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12.2. Persistence and degradability

Abiotic Degradation

Water DT50 days

Chemical Name

	Values	Method	Remarks
Fluazinam:	1.9	BBA IV:5-1	No Information

Soil DT50 days

Chemical Name

Fluazinam:	72.5	SETAC	20*** °C***
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Biodegradation

Chemical Name

Fluazinam:	Not readily biodegradable	OECD 301 F	
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12.3. Bioaccumulative potential

Partition Coefficient

(n-octanol/water) Log Pow

Chemical Name

	Values	Method	Remarks
Fluazinam:	4.87	OECD 107***	pH7, 22-23 °C

Bioconcentration factor (BCF)

Chemical Name

Fluazinam:	960-1090		
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12.4. Mobility in soil

Adsorption/Desorption

Chemical Name

	Values	Method	Remarks
Fluazinam:	1958***	OECD 106***	Koc

12.5. Results of PBT and vPvB assessment

This components in this formulation do not meet the criteria for a classification as PBT OR vPvB.

12.6. Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Improper disposal or reuse of this container may be dangerous or illegal.
Other information	Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT CONSIDERATIONS

IMDG/IMO

14.1	UN/ID No	3082
14.2	Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUAZINAM)
14.3	Hazard class	9
14.4	Packing group	III
14.5	Marine Pollutant	Yes
14.6	Special precautions for user	

RID/ADR

14.1	UN number	3082
14.2	Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUAZINAM)
14.3	Hazard class	9
14.4	Packing group	III
14.5	Environmental Hazards	Yes
14.6	Special precautions for user	

ICAO/IATA

14.1	UN number	3082
14.2	Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUAZINAM)
14.3	Hazard class	9
14.4	Packing group	III
14.5	Environmental Hazards	Yes
14.6	Special precautions for user	
14.7	Transport in bulk according 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

UK and Northern Ireland Regulatory References

15.2. Chemical Safety Assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

Section 16: OTHER INFORMATION

Full text of R-phrases mentioned in Section 2 and 3.

R20-	Harmful by inhalation
R41-	Risk of serious damage to eyes
R43-	May cause sensitization by skin contact
R63-	Possible risk of harm to the unborn child
R50/53-	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53-	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

H332-	Harmful if inhaled
H318-	Causes serious eye damage
H361d-	Suspected of damaging the unborn child
H400-	Very toxic to aquatic
H410-	Very toxic to aquatic life with long lasting effects
H412-	Harmful to aquatic life with long lasting effects.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Material 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 a 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 process, unless specified in the text.

End of Safety Data Sheet

