

# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

## Scotia

Revision Date 17-Dec-2015 Publish Date 17-Dec-2015 Version 1

Product No FNG56822-44/2 R-21191-MAB / MCW 626-n

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

1.1. Product identifier

Scotia <sub>Synonyms</sub> Pure substance/mixture	Epoxiconazole Folpet 50 375 SC Mixture		
1.2. Relevant identified uses of the	substance or mixture and uses advised against		
Recommended Use Uses advised against	Fungicide No information available		
1.3. Details of the supplier of the safety data sheet			
Supplier Address	ADAMA Agricultural Solutions UK Ltd Unit 15, Thatcham Buisness Village Colthrop Way, Thatcham Berkshire RG19 4LW, UK : 01635 860555 Fax: 01635 861555		
For further information, please contact			
Email address 1.4. Emergency telephone number	ukenquiries@adama.com		

Emergency Telephone

National Chemical Emergency Centre (UK): Tel: 01865 407333 (24 hours)

# Section 2: HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]Acute toxicity - InhalationCategory 4 - (H332)(Dusts/Mists)Category 2 - (H319)Serious eye damage/eye irritationCategory 2 - (H351)CarcinogenicityCategory 1B - (H360Df)Acute aquatic toxicityCategory 1 - (H400)Hazardous to the AquaticCategory 3 - (H412)Environment - Chronic HazardCategory 3 - (H412)

## 2.2. Label elements

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

Hazard pictograms	
Signal word	Danger
Hazard Statements	H319 - Causes serious eye irritation H332 - Harmful if inhaled H351 - Suspected of causing cancer H360Df - May damage the unborn child. Suspected of damaging fertility H400 - Very toxic to aquatic life H412 - Harmful to aquatic life with long lasting effects
Precautionary Statements	<ul> <li>P102 - Keep out of reach of children</li> <li>P201 - Obtain special instructions before use</li> <li>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P501 - Dispose of contents/ container to an approved waste disposal plant</li> </ul>
EU Specific Hazard Statements	EUH208 - Contains Folpet, Methenamine. May produce an allergic reaction EUH401 - To avoid risks to human health and the environment, comply with the instructions for use
Additional phrases for PPP	SP1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).
2.3. Other hazards	

2.3. Other hazards

No information available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2 Mixture

Chemical Name	Weight-%	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	M-Factor	REACH Registration Number
Folpet	31-34	133-07-3	205-088-6	613-045-00-1	Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Carc. 2 (H351) Aquatic Acute 1 (H400)	M=10	-
Epoxiconazole (ISO)	3-5	133855-98-8	406-850-2	613-175-00-9	Carc. 2 (H351) Repr. 1B (H360Df) Aquatic Chronic 2 (H411)		-
Poly(oxy-1,2-ethanediy l), .alphasulfoomega[ tris(1- phenylethyl)phenoxy -, ammonium salt	1-2	119432-41-6	-	-	Aquatic Chronic 3 (H412)		-
methenamine	0.5-0.9	100-97-0	202-905-8	612-101-00-2	Flam. Sol. 2 (H228) Skin Sens. 1 (H317)		-

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 advice immediately (show directions for use or 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	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, 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 Most important symptoms and effects, both acute and delayed

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

Note to physicians

Treat symptomatically.

# Section 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable Extinguishing Media

No information available.

# 5.2. Special hazards arising from the substance or mixture

No specific hazard known.

## 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 breathe fumes.

# Section 6: ACCIDENTAL RELEASE MEASURES

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

## Personal precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### 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. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

#### 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 also section 8,13

# Section 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

#### Advice on safe handling

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

#### General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

#### 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. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

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

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

The information required is contained in this Material Safety Data Sheet.

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
methenamine			TWA: 4 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	
100-97-0			-	STEL: 6 mg/m <sup>3</sup>	

#### 8.2. Exposure controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment Eye/face protection Body Protection

Tight sealing safety goggles.

Suitable protective clothing, Suitable protective clothing, Apron, Gloves made of plastic or rubber, Rubber boots, Wear impervious protective clothing, including boots, gloves, lab

coat, apron or coveralls, as appropriate, to prevent skin contact.

**General Hygiene Considerations** When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

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

Property Property	Values_	Method_	<u>Remarks</u>
Appearance			
Physical state	: Liquid		
Color	: opaque white		
Odor	: Organic		
Odor threshold	: No data available	CIPAC MT 75.3	
pH	: 5.7-6.7	CIPAC WIT 75.3	solution (1 %)
Melting point/freezing point °C	:		No data available
Boiling point/boiling range °C	: No data available		
Flash point °C	: >79	CIPAC MT 12.2	
Evaporation rate	:		No data available
Flammability (solid, gas)	: Not applicable for liquids		
Upper/lower flammability or	: No data available		
explosive limits			
Vapor pressure kPa	:		Not Applicable
Vapor density	: No data available		
Relative density	: 1.2-1.3	CIPAC MT 3.3.2	
Solubility(ies) mg/l	:		Not Applicable
Partition Coefficient	:		See Section 12 for more
(n-octanol/water) Log Pow			information
Autoignition temperature °C	: > 400	EEC A.15	
Decomposition temperature °C	: No data available		
Kinematic viscosity mm2/s 40 °C	: 61-735	OECD 114	
Explosive properties	: Not an explosive		
Oxidizing properties	: Not oxidizing		
9.2. Other information			
Bulk density g/ml	:		Not Applicable
Surface tension mN/m	: 24.2		

# Section 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

Stable under normal 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 products

None under normal use conditions.

# Section 11: TOXICOLOGY INFORMATION

# 11.1. Information on toxicological effects

Acute toxicity	Male and	0	
Oral LD50 mg/kg Dermal LD50 mg/kg Inhalation LC50 mg/l/4h Skin corrosion/irritation Serious eye damage/eye irritation Respiratory/skin sensitization	Values >2000 >2000 1.18-1.83 Non-irritating to the skin Irritating to eyes Not a skin sensitizer	<u>Species</u> Rat Rat Rat Rabbit Rabbit Guinea pig	Method         Remarks           OECD 423         0ECD 423           OECD 403         0ECD 403           OECD 404         0ECD 405           OECD 406, (M&K test)         0ECD 406, (M&K test)
Chronic toxicity			
Germ cell mutagenicity Chemical Name Folpet Epoxiconazole (ISO)	: Not classified : Not classified		
Carcinogenicity Chemical Name Folpet Epoxiconazole (ISO)	<ul> <li>Suspected of causing cancel</li> <li>Suspected of causing cancel</li> </ul>		
Reproductive toxicity .	· · · · · · · · · · · · · · · · · · ·		
Chemical Name Folpet Epoxiconazole (ISO)	: Not toxic for the reproductiv : H360Df - May damage the		ted of damaging fertility
STOT - single exposure Chemical Name			
Folpet Epoxiconazole (ISO)	: No data available : No data available		
STOT - repeated exposure Chemical Name			
Folpet Epoxiconazole (ISO)	<ul><li>No data available</li><li>No data available</li></ul>		
Aspiration hazard Chemical Name			
Folpet Epoxiconazole (ISO)	<ul><li>No data available</li><li>No data available</li></ul>		
S	Section 12: ECOLOGIC	AL INFORMAT	ON

## 12.1. Toxicity Toxicity

Aquatic toxicity

Acute toxicity	1	Values	<u>Species</u>	Method	Remarks
Fish 96-hour LC50 mg/l	:	0.354	Oncorhynchus	OECD 203	

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Crustacea 48-hour EC50 mg/l Algae 72-hour EC50 mg/l Other plants EC50 mg/l	: 3.530 : 0.0375 :	mykiss Daphnia magna D. Subspicatus	OECD 202 OECD 201	Static Static No data available
Terrestrial Toxicity Birds Oral LD50 mg/kg Chemical Name Folpet Epoxiconazole (ISO)	: >2510 : >2000	Bobwhite quail Bobwhite quail	EPA 71-1 US EPA 71-1	
Bees Oral LD50 μg/bee Chemical Name Folpet Epoxiconazole (ISO)	: >236 : >1286		EPPO 170 (1992)	
12.2. Persistence and degradabilit	y Persistence and	degradability		
Abiotic Degradation Water DT50 days Chemical Name	<u>Values</u>		<u>Method</u>	<u>Remarks</u>
Folpet Epoxiconazole (ISO)	: <0.05 : 38 - 93		OECD 111 OECD 308	рН 7
<b>Soil DT50 days Chemical Name</b> Folpet	: 4.3		SETAC	25° C
Epoxiconazole (ISO)	: 74		021110	Field
Biodegradation Chemical Name Folpet Epoxiconazole (ISO) 12.3. Bioaccumulative potential B	: Readily biodeg : No data availal ioaccumulative pot	ble	OECD 301 B	
Partition Coefficient (n-octanol/water) Log Pow Chemical Name	<u>Values</u>		<u>Method</u>	<u>Remarks</u>
Folpet	: 3.017			20 ° C
Epoxiconazole (ISO)	: 3.3		OECD 117	25° C
<b>Bioconcentration factor (BCF)</b> <b>Chemical Name</b> Folpet Epoxiconazole (ISO)	: 56 : 70		OECD 305E	Low bioaccumulation potential
12.4. Mobility in soil Mobility in so	<u>bil</u>			
Adsorption/Desorption Chemical Name	Values_		<u>Method</u>	<u>Remarks</u>
Folpet	: 304			Koc

The components in this formulation do not meet the criteria for classification as PBT or vPvB

## 12.6. Other adverse effects 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 and illegal.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.

# Section 14: TRANSPORTATION INFORMATION

IMDG/IMO 14.1 UN/ID No 14.2 Proper shipping name 14.3 Hazard Class 14.4 Packing Group 14.5 Marine pollutant 14.6 Special precautions for user	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxiconazole, Folpet) 9 III Yes
<u>RID/ADR</u> 14.1 UN/ID No 14.2 Proper shipping name 14.3 Hazard Class 14.4 Packing Group 14.5 Environmental hazard 14.6 Special precautions for user	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxiconazole, Folpet) 9 III Yes
ICAO/IATA 14.1 UN/ID No 14.2 Proper shipping name 14.3 Hazard Class 14.4 Packing Group 14.5 Environmental hazard 14.6 Special precautions for user 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxiconazole, Folpet) 9 III Yes Not Applicable

# Section 15: REGULATORY INFORMATION

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

#### 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 H-Statements referred to under sections 2 and 3

H228 - Flammable solid

H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

H332 - Harmful if inhaled

H319 - Causes serious eye irritation

H351 - Suspected of causing cancer if inhaled

H400 - Very toxic to aquatic life

H360Df - May damage the unborn child. Suspected of damaging fertility

H411 - Toxic to aquatic life with long lasting effects

#### **Revision Note**

\*\*\* - Change from previous version.

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