



# SAFETY DATA SHEET

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

## FOSETYL-AL 500 + FOLPET 250 WDG

Revision Date 05-Jul-2017

Version 1

Product No FNG56849-E  
R-20454 7130120 MCW 651 WDG

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

#### 1.1. Product identifier

## FOSETYL-AL 500 + FOLPET 250 WDG

Pure substance/mixture

Mixture

#### 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	ADAMA Makhteshim Ltd PO Box 60 Beer Sheva 8410001 Israel
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For further information, please contact

Email address	SDS@ADAMA.COM
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#### 1.4. Emergency telephone number

Emergency Telephone	+972-03-6106666 Subscription no. 36789 (ADAMA Makhteshim Ltd.)
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### Section 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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

Carcinogenicity	Category 2 - (H351)
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Acute aquatic toxicity	Category 1 - (H400)
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#### 2.2. Label elements

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

Hazard pictograms

**Signal word**

Warning

**Hazard Statements**H351 - Suspected of causing cancer  
H400 - Very toxic to aquatic life**Precautionary Statements**P102 - Keep out of reach of children  
P201 - Obtain special instructions before use  
P501 - Dispose of contents/ container to an approved waste disposal plant  
P280 - Wear protective gloves/protective clothing/eye protection/face protection**EU Specific Hazard Statements**

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

EUH208 - Contains Folpet. May produce an allergic reaction

**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**

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
Fosetyl-Al	47 - 52	39148-24-8	254-320-2	006-095-00-5	Eye Dam. 1 (H318)		-
Folpet	22 - 27	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	-

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** 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

**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**

Wear self contained breathing apparatus for fire fighting if necessary

**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**

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**

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	Italy	Portugal	Netherlands	Finland	Denmark
Fosetyl-Al 39148-24-8			TWA: 0.05 mg/m <sup>3</sup>		

**8.2. Exposure controls**

<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal protective equipment</b>	
<b>Eye/face protection</b>	Tight sealing safety goggles.
<b>Hand Protection</b>	Gloves made of plastic or rubber.
<b>Body Protection</b>	Suitable protective clothing, Suitable protective clothing, Apron, Gloves made of plastic or rubber.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>General Hygiene Considerations</b>	When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.
<b>Environmental exposure controls</b>	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>Method</u>	<u>Remarks</u>
<b>Appearance</b>			
<b>Physical state</b>	: granules		
<b>Color</b>	: beige		
<b>Odor</b>	: Slight sweet		
<b>Odor threshold</b>	: No data available		
<b>pH</b>	: 2 - 3	CIPAC MT 75.3	solution (1 %)
<b>Melting point/freezing point °C</b>	: No data available		
<b>Boiling point/boiling range °C</b>	: No data available		
<b>Flash point °C</b>	: No data available		

<b>Evaporation rate</b>	:	Not Applicable	
<b>Flammability (solid, gas)</b>	:	Not highly flammable	EEC A.10
<b>Upper/lower flammability or explosive limits</b>	:	No data available	
<b>Vapor pressure kPa</b>	:	No data available	
<b>Vapor density</b>	:	No data available	
<b>Relative density</b>	:	No data available	
<b>Solubility(ies) mg/l</b>	:	No data available	
<b>Partition Coefficient (n-octanol/water) Log Pow</b>	:		
<b>Autoignition temperature °C</b>	:	>404	EEC A.16
<b>Decomposition temperature °C</b>	:	No data available	
<b>Kinematic viscosity mm<sup>2</sup>/s 40 °C</b>	:	Not Applicable	
<b>Explosive properties</b>	:	Not an explosive	EEC A.14
<b>Oxidizing properties</b>	:	Not oxidizing	
<b>9.2. Other information</b>			
<b>Bulk density g/ml</b>	:	0.69	CIPAC MT 186
<b>Surface tension mN/m</b>	:	Not Applicable	

See Section 12 for more information

## 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

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
<b>Oral LD50 mg/kg</b>	: >2000	Rat	OECD 423	
<b>Dermal LD50 mg/kg</b>	: >2000	Rat	OECD 402	
<b>Inhalation LC50 mg/l/4h</b>	: >1.02	Rat	OECD 403	Maximum attainable concentration
<b>Skin corrosion/irritation</b>	: Non-irritating to the skin	Rabbit	OECD 404	
<b>Serious eye damage/eye irritation</b>	: Not irritating to eyes	Rabbit	OECD 405	
<b>Respiratory/skin sensitization</b>	: Not a skin sensitizer	Guinea pig	OECD 406	

**Chronic toxicity****Germ cell mutagenicity****Chemical Name**

Fosetyl-Al : Not classified  
 Folpet : Not classified

**Carcinogenicity****Chemical Name**

Fosetyl-Al : Not Carcinogenic  
 Folpet : Suspected of causing cancer

**Reproductive toxicity****Chemical Name**

Fosetyl-Al : Not toxic for the reproductive system  
 Folpet : Not toxic for the reproductive system

**STOT - single exposure****Chemical Name**

Fosetyl-Al : No data available  
 Folpet : No data available

**STOT - repeated exposure****Chemical Name**

Fosetyl-Al : No data available  
 Folpet : No data available

**Aspiration hazard****Chemical Name**

Fosetyl-Al : No data available  
 Folpet : No data available

**Section 12: ECOLOGICAL INFORMATION****12.1. Toxicity****Aquatic toxicity**

<b>Acute toxicity</b>	<b>Values</b>	<b>Species</b>	<b>Method</b>	<b>Remarks</b>
Fish 96-hour LC50 mg/l	: 0.283	Oncorhynchus mykiss	OECD 203	semi-static
Crustacea 48-hour EC50 mg/l	: 2.76	Daphnia magna	OECD 202	Static
Algae 72-hour EC50 mg/l	: 28.1	P. subcapitata	OECD 201	
Other plants EC50 mg/l	:			No data available

**Terrestrial Toxicity****Birds Oral LD50 mg/kg****Chemical Name**

Fosetyl-Al : 4997 Coturnix japonica 7 days  
 Folpet : >2510 Bobwhite quail EPA 71-1

**Bees Oral LD50 µg/bee****Chemical Name**

Fosetyl-Al : 462 EPPO 170 (1992)  
 Folpet : >236 EPPO 170 (1992)

**12.2. Persistence and degradability**

<b>Abiotic Degradation</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
Water DT50 days			

<b>Chemical Name</b>			
Fosetyl-Al	: ...	SETAC	Stable pH 5, 7, 9
Folpet	: <0.05	OECD 111	pH 7
<b>Soil DT50 days</b>			
<b>Chemical Name</b>			
Fosetyl-Al	: 3		aerobic pH 4.3-7.6; 20°
Folpet	: 4.3	SETAC	C 25° C
<b>Biodegradation</b>			
<b>Chemical Name</b>			
Fosetyl-Al	: Readily biodegradable	OECD 301B	
Folpet	: Readily biodegradable	OECD 301 B	

**12.3. Bioaccumulative potential**

<b>Partition Coefficient (n-octanol/water) Log Pow</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
<b>Chemical Name</b>			
Fosetyl-Al	: -2.1	OECD 107	
Folpet	: 3.017		20 ° C
<b>Bioconcentration factor (BCF)</b>			
<b>Chemical Name</b>			
Fosetyl-Al	:		Low bioaccumulation potential
Folpet	: 56	OECD 305E	

**12.4. Mobility in soil**

<b>Adsorption/Desorption</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
<b>Chemical Name</b>			
Fosetyl-Al	: ...		Mobile
Folpet	: 304		Koc

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Other adverse effects**

No information available.

**Section 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

<b>Waste from residues/unused products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Improper disposal or reuse of this container may be dangerous and illegal.
<b>Other Information</b>	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 \* 3077

<b>14.2 Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ( Folpet )
<b>14.3 Hazard Class</b>	9
<b>14.4 Packing Group</b>	III
<b>14.5 Marine pollutant</b>	Yes
<b>14.6 Special precautions for user</b>	

**RID/ADR**

<b>14.1 UN/ID No *</b>	3077
<b>14.2 Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ( Folpet )
<b>14.3 Hazard Class</b>	9
<b>14.4 Packing Group</b>	III
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special precautions for user</b>	
<b>14.7 Tunnel restriction code</b>	

**ICAO/IATA**

<b>14.1 UN/ID No *</b>	3077
<b>14.2 Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ( Folpet )
<b>14.3 Hazard Class</b>	9
<b>14.4 Packing Group</b>	III
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special precautions for user</b>	
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not Applicable



\* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

## 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

H317 - May cause an allergic skin reaction  
 H318 - Causes serious eye damage  
 H319 - Causes serious eye irritation  
 H332 - Harmful if inhaled  
 H351 - Suspected of causing cancer if inhaled  
 H400 - Very toxic to aquatic life

### List of Acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 CAS Number - Chemical Abstracts Service number



EC Number - EINECS and ELINCS Number  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
OECD - Organization for Economic Co-operation and Development  
PBT - Persistent, Bioaccumulative and Toxic substance  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
STOT - Specific Target Organ Toxicity  
vPvB - Very Persistent and Very Bioaccumulative

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

**Revision Note** Changes made to the last version are labeled with this sign \*\*\*.

**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**