



SAFETY DATA SHEET

FOSETYL ALUMINIUM 800 WG

Revision Date 14-Aug-2017

Version 1

Product No FNG56844-E

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R-20231 9502681 MCW 354 800 WDG

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

Product identifier

FOSETYL ALUMINIUM 800 WG

Pure substance/mixture

Mixture

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

Recommended Use

Fungicide

Uses advised against

No information available

Details of the supplier of the safety data sheet

Supplier Address

ADAMA Makhteshim Ltd
PO Box 60
Beer Sheva 8410001 Israel

For further information, please contact

Email address

SDS@ADAMA.COM

Emergency Telephone

Emergency Telephone

+972-03-6106666 Subscription no. 36789 (ADAMA Makhteshim Ltd.)

Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Serious eye damage/eye irritation

Category 2 - (H319)

Label Elements

Hazard pictograms



Signal word	Warning
Hazard Statements	H319 - Causes serious eye irritation
Precautionary Statements	P102 - Keep out of reach of children P280 - Wear protective gloves/protective clothing/eye protection/face protection P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Other Hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	Weight-%	CAS No
Fosetyl-Al	76 - 84	39148-24-8

Section 4: FIRST AID MEASURES

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.

Most important symptoms and effects, both acute and delayed

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

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

Extinguishing media**Suitable Extinguishing Media**

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

Unsuitable Extinguishing Media

No information available.

Special hazards arising from the substance or mixture

No specific hazard known.

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

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

For emergency responders

Use personal protection recommended in Section 8.

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.

Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Use only with adequate ventilation. Use personal protective equipment as required. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

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.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

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

National occupational exposure limits

Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Fosetyl-Al 39148-24-8			TWA: 0.05 mg/m ³		

Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

- Eye/face protection** Tight sealing safety goggles.
- Hand Protection** Gloves made of plastic or rubber.
- Body Protection** Suitable protective clothing, Apron, Gloves made of plastic or rubber.
- Respiratory protection** Use only with adequate 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.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Appearance			
Physical state	: granules		
Color	: white		
Odor	: characteristic		
Odor threshold	: No data available		
pH	: 3 - 4	CIPAC MT 75	solution (1 %)
Melting point/freezing point °C	: No data available		
Boiling point/boiling range °C	: No data available		
Flash point °C	: ...		Not Applicable
Evaporation rate	: Not Applicable		
Flammability (solid, gas)	: Not highly flammable	EEC A.10	
Upper/lower flammability or explosive limits	: No data available		
Vapor pressure kPa	: No data available		
Vapor density	: No data available		
Relative density	: No data available		
Solubility(ies) mg/l	: No data available		
Partition Coefficient (n-octanol/water) Log Pow	:		See Section 12 for more information
Autoignition temperature °C	: >400	EEC A.16	
Decomposition temperature °C	: No data available		
Kinematic viscosity mm ² /s 40 °C	: Not Applicable		
Explosive properties	: Not an explosive	EEC A.14	
Oxidizing properties	: Not oxidizing	EEC A.17	
Other Information			
Bulk density g/ml	: 0.65		tap density
Surface tension mN/m	: Not Applicable		

Section 10: STABILITY AND REACTIVITY

Reactivity

Not available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible Materials

No information available

Hazardous Decomposition Products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

Information on toxicological effects

Acute toxicity

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

Chronic toxicity

Germ cell mutagenicity

Chemical Name
Fosetyl-Al : Not classified

Carcinogenicity

Chemical Name
Fosetyl-Al : Not Carcinogenic

Reproductive toxicity

Chemical Name
Fosetyl-Al : Not toxic for the reproductive system

STOT - single exposure

Chemical Name
Fosetyl-Al : No data available

STOT - repeated exposure

Chemical Name
Fosetyl-Al : No data available

Aspiration hazard

Chemical Name
Fosetyl-Al : No data available

Section 12: ECOLOGICAL INFORMATION

Toxicity**Aquatic toxicity**

Acute toxicity	Values	Species	Method	Remarks
Fish 96-hour LC50 mg/l	: 48.9	Cyprinus carpio	OECD 203	
Crustacea 48-hour EC50 mg/l	: >100	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	: 19.8	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
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Bees Oral LD50 µg/bee**Chemical Name**

Fosetyl-Al	: 462		EPPO 170 (1992)	
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Persistence and degradability**Abiotic Degradation****Water DT50 days****Chemical Name**

	Values	Method	Remarks
Fosetyl-Al	: ...	SETAC	Stable pH 5, 7, 9

Soil DT50 days**Chemical Name**

Fosetyl-Al	: 3		aerobic pH 4.3-7.6; 20° C
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Biodegradation**Chemical Name**

Fosetyl-Al	: Readily biodegradable	OECD 301B	
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Bioaccumulative potential**Partition Coefficient****(n-octanol/water) Partition Coefficient (n-octanol/water) Log Pow****Chemical Name**

	Values	Method	Remarks
Fosetyl-Al	: -2.1	OECD 107	

Bioconcentration factor (BCF)**Chemical Name**

Fosetyl-Al	:		Low bioaccumulation potential
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Mobility in soil**Adsorption/Desorption****Chemical Name**

	Values	Method	Remarks
Fosetyl-Al	: ...		Mobile

Results of PBT and vPvB assessment

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

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

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

UN/ID No *	Not regulated
Proper shipping name	Not regulated ()
Hazard Class	Not regulated
Packing Group	Not regulated
Marine pollutant	Not regulated
Special precautions for user	

RID/ADR

UN/ID No *	Not regulated
Proper shipping name	Not regulated ()
Hazard Class	Not regulated
Packing Group	Not regulated
Environmental hazard	Not regulated
Special precautions for user	

ICAO/IATA

UN/ID No *	Not regulated
Proper shipping name	Not regulated ()
Hazard Class	Not regulated
Packing Group	Not regulated
Environmental hazard	Not regulated
Special precautions for user	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	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

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

Section 16: OTHER INFORMATION

Revision Note

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

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

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