Fosetyl-aluminium 80 WP

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 08/03/2006 Revision date: 27/01/2014 Supersedes: 14/09/2012 Version: 5.2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Trade name : Fosetyl-aluminium 80 WP

Product code : CA701480

Synonyms : Fosetyl-aluminium 80 WP

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Pesticide
Agriculture.

Use of the substance/mixture : Fungicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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Rue de Renory, 26/1
B-4102 Ougrée - Belgium
T +32 (0)4 385 97 11 - F +32 (0)4 385 97 49
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1.4. Emergency telephone number

Emergency number : +32 (0)4 385 97 11 (8h - 16h35)
112 (European Emergency Number)

Country	Organisation/Company	Address	Emergency number
BELGIUM	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn B -1120Brussels	+32 70 245 245
Worldwide	WHO	http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/index.html	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Eye Dam. 1 H318

Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Xi; R36

R52/53
Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS05

CLP Signal word : Danger

Hazardous ingredients : fosetyl-aluminium (ISO)

Hazard statements (CLP) : H318 - Causes serious eye damage
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) : P273 - Avoid release to the environment
P280 - Wear eye protection, protective gloves
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P501 - Dispose of contents/container to National regulations

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

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
fosetyl-aluminium (ISO)	(CAS No)39148-24-8 (EC no)254-320-2 (EC index no)006-095-00-5	78 - 81,5	Xi; R41

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
fosetyl-aluminium (ISO)	(CAS No)39148-24-8 (EC no)254-320-2 (EC index no)006-095-00-5	78 - 81,5	Eye Dam. 1, H318

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. In all cases of doubt, or when symptoms persist, seek medical advice.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Immediately get medical attention.

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

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry extinguishing powder. Carbon dioxide (CO2). Water fog.

Unsuitable extinguishing media : High power water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Non-flammable.

5.3. Advice for firefighters

Precautionary measures fire : No naked lights. No smoking.

Firefighting instructions : Evacuate and limit access. Use water spray jet to protect personnel and to cool endangered containers.

Protection during firefighting : Wear full chemical protective clothing. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Other information : Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : When leaks or spills occur, only properly protected personnel should remain in the area.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. In case of insufficient ventilation, wear suitable respiratory equipment.

Emergency procedures : Evacuate area. Provide adequate ventilation to minimize dust and/or vapour concentrations. Call in an expert. Eliminate every possible source of ignition.

6.1.2. For emergency responders

Protective equipment : Wear a self-contained breathing apparatus and chemical protective clothing.

6.2. Environmental precautions

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Prevent spreading in sewers. Impound and recover large spill by mixing it with inert granular solids.

Methods for cleaning up : Collect spills and put it into appropriated container.

Other information : Special danger of slipping by leaking/spilling product.

6.4. Reference to other sections

Exposure controls/personal protection. Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not allow to enter into surface water or drains.

Handling temperature : at room temperature

Hygiene measures : Do no eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground well. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

Storage conditions : Protect against direct sunlight.

Incompatible products : Strong acid. Strong bases. Oxidizing agents, strong.

Maximum storage period : 2 year(s)

Storage area : Keep container tightly closed in a cool, well-ventilated place. Provide for retaining containers, eg. floor pan without outflow.

Packaging materials : Keep only in the original container. Keep locked up.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Gloves. Gas mask. Safety glasses.

Hand protection : Wear suitable gloves resistant to chemical penetration. NBR (Nitrile rubber). For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection : Face shield. Chemical goggles or safety glasses.

Skin and body protection : Skin protection appropriate to the conditions of use should be provided.

Respiratory protection : If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Environmental exposure controls : Notify authorities if product enters sewers or public waters.

Other information : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: White-grey.
Odour	: characteristic.
Odour threshold	: No data available
pH	: 4,2 (1%)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,871 g/ml (CIPAC MT33)
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

When exposed to heat, may decompose liberating hazardous gases.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions. Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

Protect against direct sunlight. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Strong acid. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes. Carbon dioxide (CO2). Carbon monoxide. Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Fosetyl-aluminium 80 WP	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5220 mg/l/4h

fosetyl-aluminium (ISO) (39148-24-8)	
LD50 oral rat	5800 mg/kg
LD50 dermal rat	> 3000 mg/kg
LC50 inhalation rat (mg/l)	> 1,73 mg/l/4h

Skin corrosion/irritation : Not classified
pH: 4,2 (1%)

Serious eye damage/irritation : Causes serious eye damage.
pH: 4,2 (1%)

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Fosetyl-aluminium 80 WP	
LC50 fishes 1	> 132 mg/l (96h Cyprinus carpio)
EC50 Daphnia 1	> 132 mg/l (48h Daphnia magna)
ErC50 (algae)	21 mg/l (72h Selenastrum capricornutum)

fosetyl-aluminium (ISO) (39148-24-8)	
LC50 fishes 1	94,3 mg/l (96h; Salmo gairdneri)
EC50 Daphnia 1	188 mg/l (96h; Daphnia Pulex)
ErC50 (algae)	21,9 mg/l (90h; scenedesmus pannonicus)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

fosetyl-aluminium (ISO) (39148-24-8)	
Log Pow	-2,769 - -2,284 (23°C)
Bioaccumulative potential	Low.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of this material and its container to hazardous or special waste collection point.

Additional information : 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). Notify authorities if product enters sewers or public waters.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

No dangerous good in sense of transport regulations

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Transport regulations (ADR) : Not subject

14.6.2. Transport by sea

Transport regulations (IMDG) : Not subject

14.6.3. Air transport

Transport regulations (IATA) : Not subject

14.6.4. Inland waterway transport

No additional information available

14.7. Transport in bulk according to 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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

Seveso Information :

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

	Supersedes	Modified	
	Revision date	Modified	
2.1	Classification according to Directive 67/548/EEC or 1999/45/EC	Added	
2.2	EUH phrases	Added	
14.6	Transport regulations (IMDG)	Added	
14.6	Transport regulations (IATA)	Added	
14.6	Transport regulations (ADR)	Added	

Full text of R-, H- and EUH-phrases::

Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H318	Causes serious eye damage
H412	Harmful to aquatic life with long lasting effects
R36	Irritating to eyes
R41	Risk of serious damage to eyes
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Xi	Irritant

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product