

Thyborønvej 78 DK-7673 Harboøre

Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 43

Material group	1168	Page 1 of 13
Product name	ALIAL 80 WG	
		January 2020
Safety data sheet according to EU Reg. 1907/2006 as amended		Supersedes September 2018

# SAFETY DATA SHEET ALIAL 80 WG

Revision: Sections containing a revision or new information are marked with a .

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

1.1. Product identifier ...... **ALIAL 80 WG** 1.2. Relevant identified uses of the substance or mixture and uses advised against ..... Can be used as fungicide only. 1.3. Details of the supplier of the safety FMC Agricultural Solutions A/S data sheet Thyborønvej 78 DK-7673 Harboøre Denmark SDS.Ronland@fmc.com 1.4. Emergency telephone number *Company* ..... +45 97 83 53 53 (24 h; for emergencies only) Medical emergencies: Luxembourg: +352 8002 5500 Austria: +43 1 406 43 43 Netherlands: +31 30 274 88 88 Belgium: +32 70 245 245 Norway: +47 22 591300 Bulgaria: +359 2 9154 409 Poland: +48 22 619 66 54 Cyprus: 1401 +48 22 619 08 97 Czech Republic: +420 224 919 293 Portugal: 800 250 250 (in Portugal only) +420 224 915 402 Denmark: +45 82 12 12 12 +351 21 330 3284 England and Wales: 111 Romania: +40 21318 3606 Scotland: +8454 24 24 24 Estonia: +372 7943500 Slovakia: +421 2 54 77 4 166 France: +33 (0) 1 45 42 59 59 Slovenia: +386 41 650 500 Finland: +358 9 471 977 South Africa: +27 83 123 3911 (Bateleur Emergency Response Co.) Greece: 30 210 77 93 777 Spain: +34 91 562 04 20 Hungary: +36 80 20 11 99 Sweden: +46 08-331231 Ireland (Republic): +353 1 837 9964 112 Italy: +39 02 6610 1029 Switzerland: 145 Latvia: +371 670 42 473 Turkey: 114 112 U.S.A. & Canada: +1 800 / 331 3148 Lithuania: +370 523 62052 All other countries: +1 651 / 632 6793 (Collect) +370 687 53378



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#### **SECTION 2: HAZARDS IDENTIFICATION**

2.1. Classification of the substance or

mixture ...... None

Environmental hazards ...... The product is toxic to aquatic organisms.

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier ...... Alial 80 WG

Supplementary hazard statements

EUH210 ...... Safety data sheet available on request.

EUH401 ...... To avoid risks to human health and the environment, comply with the

instructions of use.

or vPvB.

Excessive dust formation may pose a dust explosion hazard.

#### **♣** SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. **Substances** ...... The product is a mixture, not a substance.

3.2. **Mixtures** See section 16 for full text of hazard statements.

Active ingredient

Fosetyl-aluminium ...... Content: 83% by weight

IUPAC name(s) ...... Aluminium tris-O-ethyl phosphonate

Ethyl hydrogen phosphonate, aluminium salt

ISO name ...... Fosetyl-aluminium

 EC no. (EINECS no.)
 254-320-2

 EU index no.
 006-095-00-5

 Molecular weight
 354.10

Classification of the ingredient ..... Eye damage: Category 1 (H318)



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Reportable ingredients	Content (% w/w)	CAS no.	EC no. (EINECS no.)	Classification
Kaolin	5	1332-58-7	310-194-1	Not classified
Sodium diisopropylnaphthalene- sulphonate	3	1322-93-6	215-343-3	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) STOT SE 3 (H335)

# **SECTION 4: FIRST AID MEASURES**

4.1.	Description of first aid measures Inhalation	If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.
	Skin contact	Immediately remove contaminated clothing and footwear. Flush skin with water. Wash with water and soap. See physician if irritation develops.
	Eye contact	Immediately rinse eyes with much water or eyewash solution, occasionally opening eyelids, until no evidence of chemical remains. Remove contact lenses after a few minutes and rinse again. Get medical attention if irritation develops.
	Ingestion	Let the exposed person rinse mouth with water and let him/her drink several glasses of water or milk, but not induce vomiting. If vomiting does occur, let him/her rinse mouth and drink water again. Get medical attention immediately.
4.2.	Most important symptoms and effects, both acute and delayed	Primarily irritation.
4.3.	Indication of any immediate medical attention and special	Immediate medical attention is required in case of ingestion.
	treatment needed	It may be helpful to show this safety data sheet to physician.
	Notes to physician	A specific antidote for exposure to this material is not known. Gastric lavage and/or administration of activated charcoal can be considered. After decontamination, treatment of exposure is as for a general chemical and should be directed at the control of symptoms and the clinical condition.

# **SECTION 5: FIRE-FIGHTING MEASURES**



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5.2. Special hazards arising from the substance or mixture

The essential breakdown products are carbon monoxide, carbon dioxide and phosphorus pentoxide.

5.3. Advice for firefighters .....

Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Dike area to prevent water runoff. Firemen should wear self-contained breathing apparatus and protective clothing.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

It is recommended to have a predetermined plan for the handling of spills. Empty, closable vessels for the collection of spills should be available.

In case of large spill (involving 10 tonnes of the product or more):

- 1. use personal protection equipment; see section 8
- 2. call emergency telephone no.; see section 1
- 3. alert authorities.

Observe all safety precautions when cleaning up spills. Use personal protection equipment. Depending on the magnitude of the spill this may mean wearing respirator, face mask or eye protection, chemical resistant clothing, gloves and boots.

Stop the source of the spill immediately if safe to do so. Keep unprotected persons away from the spill area. Avoid and reduce vapour or dust formation as much as possible, if appropriate by moistening. Personal contact with the product must be avoided.

6.2. Environmental precautions .......

Contain the spill to prevent any further contamination of surface, soil or water. Wash waters must be prevented from entering surface water drains. Uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

6.3. Methods and materials for containment and cleaning up

It is recommended to consider possibilities to prevent damaging effects of spills, such as bunding or capping. See GHS (Annex 4, Section 6).

If appropriate, surface water drains should be covered. Minor spills on the floor or other impervious surface should immediately be swept up or preferably vacuumed up using equipment with high efficiency final filter. Transfer to suitable containers. Clean area with damp cloth and/or strong industrial detergent and much water. Absorb wash liquid onto inert absorbent such as universal binder, Fuller's earth, bentonite or other absorbent clay and transfer contaminated absorbent to suitable containers. The used containers should be properly closed and labelled.



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Large spills which soak into the ground should be dug up and transferred to suitable containers.

Spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal.

6.4. Reference to other sections .......

See subsection 8.2. for personal protection.

See section 13 for disposal.

#### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling ....

In an industrial environment, it is recommended to avoid all personal contact with the product, if possible by using closed systems with remote system control. The material should be handled by mechanical means as much as possible. Adequate ventilation or local exhaust ventilation is required. The exhaust gases should be filtered or treated otherwise. For personal protection in this situation, see section 8.

For its use as a pesticide, first look for precautions and personal protection measures on the officially approved label on the packaging or for other official guidance or policy in force. If these are lacking, see section 8.

Remove contaminated clothing immediately. Wash thoroughly after handling. Before removing gloves, wash them with water and soap. After work, take off all work clothes and footwear. Take a shower, using water and soap. Wear only clean clothes when leaving job. Wash protective clothing and protective equipment with water and soap after each use.

Do not discharge to the environment. Do not contaminate water when disposing of equipment wash waters. Collect all waste material and remains from cleaning equipment, etc., and dispose of as hazardous waste. See section 13 for disposal.

# 7.2. Conditions for safe storage, including any incompatibilities

The product is stable under normal conditions of warehouse storage.

Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

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

The product is a registered pesticide which may only be used for the applications it is registered for, in accordance with a label approved by the regulatory authorities.



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#### **♣** SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

for fosetyl-aluminium.

Year

**Kaolin** ACGIH (USA) TLV 2015 2 mg/m<sup>3</sup>, respirable fraction of the aerosol

OSHA (USA) PEL 2015 15 mg/m<sup>3</sup>, total dust

5 mg/m<sup>3</sup>, respirable fraction

EU, 2000/39/EC 2017 Not established

as amended

Germany, MAK 2014 Not established

HSE (UK) WEL 2011 2 mg/m<sup>3</sup>, respirable dust

However, other exposure limits may be defined by local regulations

and must be observed.

Fosetyl-Al

DNEL ...... Not established

The EFSA has established an AOEL of 14 mg/kg bw/day

PNEC, aquatic environment ....... 0.17 mg/l

8.2. **Exposure controls** ....... When used in a closed system, personal protection equipment will not

be required. The following is meant for other situations, when the use of a closed system is not possible, or when it is necessary to open the system. Consider the need to render equipment or piping systems non-

hazardous before opening.

In cases of incidental high exposure, maximal personal protection may

be necessary, such as respirator, face mask, chemical resistant

coveralls.

The precautions mentioned below are primarily meant for handling of the undiluted product and for preparing the spray solution, but can be

recommended for spraying as well



Respiratory protection

The product does not automatically present an airborne exposure concern when handled carefully, but in the event of an accidental discharge of the material which produces a heavy vapour or dust, workers must put on officially approved respiratory protection equipment with a universal filter type including particle filter.



Protective gloves .....

Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber. The breakthrough times of these materials for the product are unknown, but it is expected that they will give adequate

protection.



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Eye protection ....... Wear safety glasses. It is recommended to have an eye wash fountain

immediately available in the workplace when there is a potential for

eye contact.



Other skin protection

Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be discarded after use if contaminated. In cases of excessive or prolonged exposure, coveralls of barrier laminate may be required.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. **Information on physical and** chemical properties

Appearance ...... White solid (granules)

Odour ...... Slight

Odour threshold ...... Not determined

Initial boiling point and boiling range No boiling point

Upper/lower flammability or

explosive limits ...... Not determined

Vapour pressure ...... Fosetyl-aluminium :  $< 10^{-7}$  Pa at 25°C

Bulk or tap density: 0.62 g/cm<sup>3</sup>

Solubility(ies) ...... Solubility of **fosetyl-aluminium** at 20°C in:

Methanol850 mg/lxylene1 mg/lethyl acetate< 1 mg/ln-heptane< 1 mg/lwaterapprox 110 g/l

#### 9.2. Other information

Miscibility ...... The product is miscible with water.



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SECT	SECTION 10: STABILITY AND REACTIVITY		
10.1.	Reactivity	To our knowledge, the product has no special reactivities.	
10.2.	Chemical stability	The product is stable during normal handling and storage at ambient temperatures.	
10.3.	Possibility of hazardous reactions	None known.	
10.4.	Conditions to avoid	Heating of the product will produce harmful and irritant vapours.	
		The product decomposes in humid conditions.	
10.5.	Incompatible materials	Strong bases, strong oxidising and reducing agents	
10.6.	Hazardous decomposition products	See subsection 5.2.	

# SECTION 11: TOXICOLOGICAL INFORMATION

11.1.	Information on toxicological effects	* = Based on available data, the classification criteria are not met.
	Product Acute toxicity	The product is not considered as harmful by single exposure. * The acute toxicity is measured as:
	Route(s) of entry - ingestion	LD <sub>50</sub> , oral, rat: 6250 mg/kg
	- skin	LD <sub>50</sub> , dermal, rat: 3750 mg/kg
	- inhalation	LC <sub>50</sub> , inhalation, rat: not available
	Skin corrosion/irritation	Not irritating to skin. *
	Serious eye damage/irritation	Mildly to moderately irritating to eyes. *
	Respiratory or skin sensitisation	Not a skin sensitizer. *
	Germ cell mutagenicity	The product contains no ingredient known to be mutagenic. *
	Carcinogenicity	The product contains no ingredient known to be carcinogenic. *
	Reproductive toxicity	The product contains no ingredient found to have adverse effects on reproduction. *
	STOT – single exposure	To our knowledge, specific effects after single exposure have not been observed. *
	STOT – repeated exposure	The following is found for the active ingredient fosetyl-Al: Target organ: no target organ

changes were seen. \*

NOAEL: 20000 ppm (1424 mg/kg bw/day) in a 90-day rat study (method OECD 408). At this dose level only incidental and minor



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Aspiration hazard ..... The product does not present an aspiration pneumonia hazard. \* Symptoms and effects, acute and delayed ..... Primarily irritation Fosetyl-Al Toxicokinetics, metabolism and After oral intake, fosetyl-aluminium is rapidly absorbed and widely distribution distributed in the body. Metabolism is limited and excretion is rapid as well, mainly within 24 hours. There is no evidence of accumulation. The substance is not harmful by single exposure. \* The acute toxicity Acute toxicity ..... is measured as:  $LD_{50}$ , oral, rat: > 7080 mg/kg (method OECD 401) Route(s) of entry - ingestion - skin LD<sub>50</sub>, dermal, rat: > 2000 mg/kg (method OECD 402) - inhalation LC<sub>50</sub>, inhalation, rat: > 5.11 mg/l/4 h (method OECD 403) Skin corrosion/irritation ..... Not irritating to skin (method OECD 404). \* Serious eye damage/irritation ...... The substance can cause severe irritation to eyes (method OECD 405). Respiratory or skin sensitisation ... The substance did not cause skin sensitisation in guinea pigs (method OECD 406). \* Sodium diisopropylnaphthalenesulphonate The substance is harmful by inhalation and ingestion. Acute toxicity ..... Route(s) of entry - ingestion  $LD_{50}$ , oral, rat: > 600 mg/kgLD<sub>50</sub>, dermal, rat: not available - skin - inhalation LC<sub>50</sub>, inhalation, rat: not available Skin corrosion/irritation ..... May be mildly irritating to skin. \* Serious eye damage/irritation ...... Irritating to eyes. Respiratory or skin sensitisation ... Not expected to be sensitising based on QSAR evaluation. \* STOT – single exposure ..... Irritating to airways.

#### SECTION 12: ECOLOGICAL INFORMATION

The ecotoxicity of the active ingredient **fosetyl-aluminium** is measured as:



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	- Fish	Rainbow trout (Oncorhynchus mykiss)		96-h LC <sub>50</sub> 28-day NOEC	> 122 mg/l 100 mg/l
		Bluegill sunfish (Lepomis macrochirus)		96-h LC <sub>50</sub>	> 60 mg/l
	- Invertebrates	Daphnids (Daphnia magna)		48-h EC <sub>50</sub> 21-day NOEC	> 100 mg/l 17 mg/l
	- Algae	Green algae (Scenede	esmus subspicatus)	72-h EC <sub>50</sub>	5.9 mg/l
	- Plants	Duckweed (Lemna gi	bba)	14-day NOEC	20.4 mg/l
	- Birds	Japanese quail (Cotur	nix coturnix japonica)	$LD_{50}$	4997 mg/kg
	- Earthworms	Eisenia foetida		LC <sub>50</sub>	> 1000 mg/kg soil
	- Bees	Honey bee (Apis mell	ifera)	48-h LD <sub>50</sub> , oral 48-h LD <sub>50</sub> , contact	> 140 μg/bee > 100 μg/bee
12.2.	2.2. Persistence and degradability		<b>Fosetyl-aluminium</b> is readily biodegradable. Primary degradation half-lives are found to be less than 1 day in aerobic soil. Degradation occurs both aerobically as well as anaerobically.		
			The product contains minor components, which may no plants.		
12.3.	2.3. Bioaccumulative potential		See section 9 for octanol-water partition coefficient.		
			Due to its high solubility in water, <b>fosetyl-aluminium</b> is not expected to bioaccumulate.		
12.4.	2.4. Mobility in soil		<b>Fosetyl-aluminium</b> is mobile in the environment, but is degraded rapidly.		
12.5.	2.5. Results of PBT and vPvB assessment		None of the ingredients mee	ets the criteria for bei	ng PBT or vPvB.
10.6	C 041 1 66 4				

# SECTION 13: DISPOSAL CONSIDERATIONS

12.6. Other adverse effects ......

13.1.	Waste treatment methods	Remaining quantities of the material and empty but unclean packaging should be regarded as hazardous waste.
		Disposal of wests and peaks gings must always be in accordance with

Disposal of waste and packagings must always be in accordance with all applicable local regulations.

Other relevant hazardous effects in the environment are not known.



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Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Disposal of packaging .....

It is recommended to consider possible ways of disposal in the following order:

- 1. Reuse or recycling should first be considered. Reuse is prohibited except by the authorisation holder. If offered for recycling, containers must be emptied and triply rinsed (or equivalent). Do not discharge rinsing water to sewer systems.
- 2. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.
- 3. Delivery of the packaging to a licensed service for disposal of hazardous waste.
- 4. Disposal in a landfill or burning in open air should only occur as a last resort. For disposal in a landfill, containers should be emptied completely, rinsed and punctured to make them unusable for other purposes. If burned, stay out of smoke.

# **SECTION 14: TRANSPORT INFORMATION**

#### ADR/RID/IMDG/IATA/ICAO classification

14.1.	UN number	Not classified as hazardous material for transport
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	May have hazardous properties in the environment.
14.6.	Special precautions for user	Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not discharge to the environment.
14.7.	Transport in bulk according to Annex II of MARPOL and the IBC code	The product is not transported in bulk by ship.

#### **SECTION 15: REGULATORY INFORMATION**

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

To our knowledge, no special regulations apply.

All ingredients are covered by EU chemical legislation.

15.2. Chemical safety assessment .......

A chemical safety assessment is not required to be included for this product.



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# **♣** SECTION 16: OTHER INFORMATION

Relevant changes in the safety data sheet	Minor corrections only		
List of abbreviations	ACGIH	American Conference of Governmental Industrial	
		Hygienists	
	AOEL	Acceptable Operator Exposure Level	
	CAS	Chemical Abstracts Service	
	Dir.	Directive	
	DNEL	Derived No Effect Level	
	EC	European Community	
	$EC_{50}$	50% Effect Concentration	
	EFSA	European Food Safety Authority	
	EINECS	European INventory of Existing Commercial Chemical Substances	
	GHS	Globally Harmonized classification and labelling System	
		of chemicals, Fifth revised edition 2013	
	HSE	Health & Safety Executive, UK	
	IBC	International Bulk Chemical code	
	ISO	International Organisation for Standardization	
	<b>IUPAC</b>	International Union of Pure and Applied Chemistry	
	$LC_{50}$	50% Lethal Concentration	
	$LD_{50}$	50% Lethal Dose	
	MAK	Maximale Arbeitspaltz-Konzentration	
	MARPOI	Let Set of rules from the International Maritime Organisation (IMO) for prevention of sea pollution	
	NOAEL	No Observed Adverse Effect Level	
	NOEC	No Observed Effect Concentration	
	OECD	Organisation for Economic Cooperation and Developmen	
	OSHA	Occupational Safety and Health Administration	
	PBT	Persistent, Bioaccumulative, Toxic	
	PEL	Personal Exposure Limit	
	PNEC	Predicted No Effect Concentration	
	QSAR	Quantitative Structure-Activity Relationship	
	Reg.	Regulation	
	STOT	Specific Target Organ Toxicity	
	TLV	Threshold Limit Value	
	vPvB	very Persistent, very Bioaccumulative	
	WG	Water dispersible Granule	
	WEL	Workplace Exposure Limit	
	WHO	World Health Organisation	
References		sured on the product are unpublished company data. Data of the available from published literature and can be found aces.	
Method for classification	Test data		
Used hazard statements	H302	Harmful if swallowed.	



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	H318	Causes serious eye damage.
	H319	Causes serious eye irritation.
	H332	Harmful if inhaled.
	H335	May cause respiratory irritation.
	EUH210	Safety data sheet available on request.
	EUH401	To avoid risks to human health and the environment,
		comply with the instructions of use.
Advice on training	This material should only be used by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.	

The information provided in this safety data sheet is believed to be accurate and reliable, but uses of the product vary and situations unforeseen by FMC Corporation may exist. The user has to check the validity of the information under local circumstances.

Prepared by: FMC Agricultural Solutions A/S / GHB