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Product name	FOSETYL-AI 50% w/w + FOLPET 25% w/w WG	October 2017
Safety data sheet according to EU Reg. 1907/2006 as amended		Supersedes December 2013

SAFETY DATA SHEET

FOSETYL-AI 50% w/w + FOLPET 25% w/w 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** **FOSETYL-AI 50% w/w + FOLPET 25% w/w WG**
Contains folpet
- 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 data sheet** **CHEMINOVA A/S**, a subsidiary of FMC Corporation
 Thyborønvej 78
 DK-7673 Harbøre
 Denmark
SDS.Ronland@fmc.com
- 1.4. **Emergency telephone number**
Company +45 97 83 53 53 (24 h; for emergencies only)
- Medical emergencies:
- | | |
|-------------------------------------|--|
| 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: 808 250 143 (in Portugal only) |
| +420 224 915 402 | +351 21 330 3284 |
| Denmark: +45 82 12 12 12 | Romania: +40 21318 3606 |
| France: +33 (0) 1 45 42 59 59 | Slovakia: +421 2 54 77 4 166 |
| Finland: +358 9 471 977 | Slovenia: +386 41 650 500 |
| Greece: 30 210 77 93 777 | Spain: +34 91 562 04 20 |
| Hungary: +36 80 20 11 99 | Sweden: +46 08-331231 |
| Ireland (Republic): +352 1 809 2166 | 112 |
| Italy: +39 02 6610 1029 | Switzerland: 145 |
| Lithuania: +370 523 62052 | United Kingdom: 0870 600 6266 (in the UK only) |
| +370 687 53378 | U.S.A. & Canada: +1 800 / 331-3148 (ProPharma) |
| Luxembourg: +352 8002 5500 | All other countries: +1 651 / 632-6793 (ProPharma - Collect) |

♣ SECTION 2: HAZARDS IDENTIFICATION

- 2.1. **Classification of the substance or mixture** Eye irritation: Category 2 (H319)
 Sensitisation – skin: Category 1B (H317)

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Carcinogenicity: Category 2 (H351)
 Hazards to the aquatic environment, acute: Category 1 (H400)

WHO classification Class U (Unlikely to present acute hazard in normal use)

Health hazards The product may cause hypersensitivity by skin contact. It has irritating properties.

Folpet is suspected of causing cancer.

Environmental hazards The product is very toxic to aquatic organisms.

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier Fosetyl-Al 50% w/w + Folpet 25% w/w WG
 Contains folpet

Hazard pictograms (GHS07, GHS08, GHS09)



Signal word Warning

Hazard statements

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H351 Suspected of causing cancer.
 H400 Very toxic to aquatic life.

Supplementary hazard statement

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

Precautionary statements

P261 Avoid breathing dust.
 P264 Wash hands thoroughly after handling.
 P280 Wear protective gloves, protective clothing and eye 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.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P501 Dispose of contents/container as hazardous waste.

2.3. Other hazards Excessive dust formation may pose a dust explosion hazard.

None of the ingredients in the product meets the criteria for being PBT or vPvB.

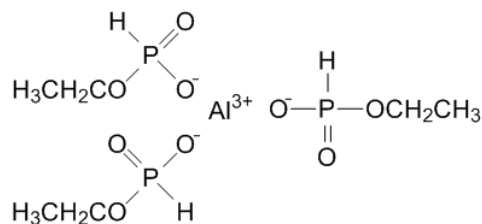
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♣ SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

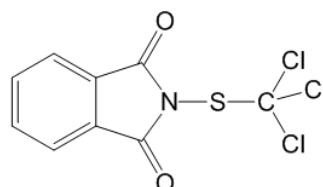
- 3.1. **Substances** The product is a mixture, not a substance
- 3.2. **Mixtures** See section 16 for full text of hazard statements.

Active ingredients

Fosetyl-Al Content: 50% by weight
 CAS name Phosphonic acid, monoethyl ester, aluminum salt
 CAS no. 39148-24-8
 IUPAC name(s) Aluminium tris-O-ethyl phosphonate
 Ethyl hydrogen phosphonate, aluminium salt
 ISO name Fosetyl-aluminium
 EU name Aluminium triethyl triphosphonate
 EC no. (EINECS no.) 254-320-2
 EU index no. 006-095-00-5
 Classification of the ingredient Eye damage: Category 1 (H318)
 Structural formula



Folpet Content: 25% by weight
 CAS name 1H-Isoindole-1,3(2H)-dione, 2-[(trichloromethyl)thio]-
 CAS no. 133-07-3
 IUPAC name N-(Trichloromethylthio)phthalimide
 ISO name/EU name Folpet
 EC no. (EINECS no.) 205-088-6
 EU index no. 613-045-00-1
 Classification of the ingredient Acute inhalation toxicity: Category 4 (H332)
 Eye irritation: Category 2 (H319)
 Sensitisation – skin: Category 1B (H317)
 Carcinogenicity: Category 2 (H351)
 Hazards to the aquatic environment, acute: Category 1 (H400)
 Structural formula



Reportable ingredients

	Content (% w/w)	CAS no.	EC no. (EINECS no.)	Classification
Lignosulfonic acid, sodium salt, sulfomethylated	4	68512-34-5	None	Eye Irrit. 2 (H319)

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Aromatic hydrocarbons, C10-13,
 reaction products with branched
 nonene, sulfonated, sodium salts
 Reg. no. 01-2119980591-31

Max. 2 1258274-08-6 None

Skin Irrit. 2 (H315)
 Eye Dam. 1 (H318)

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 much water. Wash with water and soap. See physician if any symptom 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 immediately.

Ingestion

Let the exposed person rinse mouth and drink several glasses of water or milk, but not induce vomiting. If vomiting does occur, let him/her rinse mouth and drink several glasses of fluid again. Get medical attention immediately.

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

In case of eye contact: irritation. In animal studies on similar products, irregular respiration and other non-specific signs of toxicity were seen after oral administration.

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

Immediate medical attention is required in case of ingestion or eye contact.

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.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams.

5.2. Special hazards arising from the substance or mixture

The essential breakdown products are volatile, toxic, irritant, malodorous and inflammable compounds such as nitrogen oxides, hydrogen chloride, sulphur dioxide, phosphorus pentoxide, carbon monoxide, carbon dioxide and various chlorinated organic compounds.

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- 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 rubber boots.
- Stop the source of the spill immediately if safe to do so. Keep unprotected persons away from the spill area. Avoid and reduce dust formation as much as possible, if appropriate by moistening. Remove sources of ignition.
- 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).
- Use non-sparking tools and equipment. If appropriate, surface water drains should be covered. Minor spills on the floor or other impervious surface should be swept up immediately or preferably vacuumed up using equipment with high efficiency final filter. Clean area with much water and industrial detergent. Absorb wash liquid onto an absorptive material such as universal binder, attapulgate, bentonite or other absorbent clays and collect in suitable containers. The used containers should be properly closed and labelled.
- Large spills which soak into the ground should be dug up and transferred to suitable containers.

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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 7.1. for fire prevention.
 See subsection 8.2. for personal protection.
 See section 13 for disposal.

♣ SECTION 7: HANDLING AND STORAGE

- 7.1. **Precautions for safe handling** Like most organic powders, the substance can form explosive mixtures with air. Avoid dust formation and take precautionary measures against static discharge. Use explosion protected equipment. Keep away from sources of ignition.

In an industrial environment it is important 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.
- Keep in tightly 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.

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- 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.

♣ SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Personal exposure limits

To our knowledge, personal exposure limits have not been established for any of the components in this product. However, personal exposure limits defined by local regulations may exist and must be observed.

Fosetyl-aluminium

DNEL, systemic 14 mg/kg bw/day
 PNEC, aquatic environment 0.17 mg/l

Folpet

DNEL, oral 0.1 mg/kg bw/day
 PNEC, aquatic environment 6.2 ng/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.

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.

In cases of incidental high exposure, maximal personal protection may be necessary, such as respirator, face mask, chemical resistant coveralls.



Respiratory protection

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. Generally, however, the use of protective gloves will give only partial protection against dermal exposure. Small tears in the gloves and cross-contamination can easily occur. It is recommended to limit the work to be done manually and to change the gloves regularly. Before removing gloves, wash them with water and soap.

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Eye protection

Wear safety glasses or face shield. 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	Beige solid (granules)
Odour	Practically odourless
Odour threshold	Not determined
pH	1% dispersion in water: 3.3 to 4.3
Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid/gas)	Not highly flammable
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Fosetyl-aluminium: < 10 ⁻⁷ Pa at 25°C Folpet : 2.0 x 10 ⁻⁵ Pa at 25°C 4.4 x 10 ⁻⁴ Pa at 45°C
Vapour density	Not determined
Relative density	Not determined
	Pour density: 0.616 g/cm ³ Tap density: 0.628 g/cm ³
Solubility(ies)	Solubility of fosetyl-aluminium at 20°C in: xylene 1 mg/l ethyl acetate < 1 mg/l n-heptane < 1 mg/l water approx. 110 g/l Solubility of folpet at 25°C in: toluene 26.3 g/l heptane 0.45 g/l water 0.80 mg/l Folpet is not stable in water. Half-life time in water is 0.7 hour at pH 7 and 25°C.
Partition coefficient n-octanol/water	Fosetyl-aluminium : log K _{ow} = -2.1 at 21 - 23°C Folpet : log K _{ow} = 3.0 at 20°C
Autoignition temperature	Not auto-flammable

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Decomposition temperature	Folpet decomposes starting at 184°C.
Viscosity	Not determined
Explosive properties	Not explosive
Oxidising properties	Not oxidising

9.2. Other information

Miscibility	The product is dispersible in water.
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♣ 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 evolve harmful and irritant vapours.
10.5. Incompatible materials	None known.
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.
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Product

Acute toxicity	The product is not harmful by ingestion, inhalation or dermal contact. * However, it should always be treated with the usual care of handling chemicals. The acute toxicity is measured as:
Route(s) of entry	- ingestion LD ₅₀ , oral, rat: > 2000 mg/kg (method OECD 425)
	- skin LD ₅₀ , dermal, rat: > 2000 mg/kg (method OECD 402)
	- inhalation LC ₅₀ , inhalation, rat: > 5 mg/l/4 h (estimated)
Skin corrosion/irritation	Mildly irritating to skin (method OECD 404). *
Serious eye damage/irritation	The product may cause eye irritation (method OECD 405).
Respiratory or skin sensitisation ...	The product may be sensitising to skin, based on properties of the ingredients
Germ cell mutagenicity	The product contains no ingredients known to be mutagenic. *
Carcinogenicity	The product contains folpet which is suspected of being carcinogenic.
Reproductive toxicity	The product contains no ingredients found to have adverse effects on reproduction. *

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STOT – single exposure To our knowledge, specific effects after single exposure have not been observed. *

STOT – repeated exposure The following was measured on the active ingredient **fosetyl-Al**:
 Target organ: no target organ
 NOAEL: 1420 mg/kg bw/day in a 90-day rat study, the highest dose tested (method OECD 408). *

The following was measured on the active ingredient **folpet**:
 Target organ: no specific target organ
 NOEL: 1000 ppm (45 - 59 mg/kg bw/day) in a 90-day rat study. At this dose level decreased body weight was observed (method Dir. 87/302/EEC Part B). *

Aspiration hazard The product does not present an aspiration pneumonia hazard. *

Symptoms and effects, acute and delayed Irritation and allergic reactions. In animal studies, irregular respiration and other non-specific signs of toxicity were seen after oral administration.

Fosetyl-Al

Toxicokinetics, metabolism and distribution

After oral intake, fosetyl-aluminium is rapidly absorbed and widely distributed in the body. Metabolism is limited and excretion is rapid as well, mainly within 24 hours. There is no evidence of accumulation.

Acute toxicity The substance is not harmful by inhalation, in contact with skin or if swallowed. * The acute toxicity is measured as:

Route(s) of entry	- ingestion	LD ₅₀ , oral, rat: > 7080 mg/kg (method OECD 401)
	- skin	LD ₅₀ , dermal, rat: > 2000 mg/kg (method OECD 402)
	- inhalation	LC ₅₀ , inhalation, rat: > 5.11 mg/l/4 h (method OECD 403)

Skin corrosion/irritation The substance is 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). *

Folpet

Toxicokinetics, metabolism and distribution

Folpet is absorbed rapidly following oral administration. It is widely distributed in the body and rapidly metabolised and excreted. Bioaccumulation is not expected.

Acute toxicity Folpet is harmful by inhalation. The acute toxicity is measured as:

Route(s) of entry	- ingestion	LD ₅₀ , oral, rat: > 2000 mg/kg *
	- skin	LD ₅₀ , dermal, rat: > 2000 mg/kg *

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- inhalation	LC ₅₀ , inhalation, rat: 1.89 mg/l/4 h
Skin corrosion/irritation	Not irritating to skin. *
Serious eye damage/irritation	Moderately irritating to eyes.
Respiratory or skin sensitisation ...	Skin sensitising.

Lignosulfonic acid, sodium salt, sulfomethylated

Acute toxicity	The substance is not considered as harmful by single exposure. *
Route(s) of entry	- ingestion LD ₅₀ , oral, rat: not available
	- skin LD ₅₀ , dermal, rat: not available
	- inhalation LC ₅₀ , inhalation, rat: not available
Serious eye damage/irritation	Causes serious eye irritation.

Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts

Acute toxicity	The substance is not considered as harmful by single exposure. *
Route(s) of entry	- ingestion LD ₅₀ , oral, rat: 2000 - 5000 mg/kg (method OECD 401)
	- skin LD ₅₀ , dermal, rat: > 2000 mg/kg (method similar to OECD 402)
Skin corrosion/irritation	Irritating to skin (method OECD 404).
Serious eye damage/irritation	Severely irritating to eyes (method OECD 437).
Respiratory or skin sensitisation ...	Not sensitising to skin (method OECD 406). *

SECTION 12: ECOLOGICAL INFORMATION

- 12.1. **Toxicity** The product is very toxic to fish and may be toxic to aquatic invertebrates and plants. It is not considered as harmful to birds, insects and soil macro- and microorganisms.

The ecotoxicity measured on the active ingredients is:			Fosetyl- aluminium	Folpet
- Fish	Rainbow trout (<i>Oncorhynchus mykiss</i>)	96-h LC ₅₀ 28-day NOEC	> 122 mg/l 100 mg/l	0.233 mg/l
	Brown trout (<i>Salmo trutta</i>)	96-h LC ₅₀		0.098 mg/l
- Invertebrates	Daphnids (<i>Daphnia magna</i>)	48-h EC ₅₀ 21-day NOEC	> 100 mg/l 17 mg/l	> 1.46 mg/l 0.31 µg/l
- Algae	Green algae (<i>Scenedesmus subspicatus</i>)	72-h IC ₅₀	5.9 mg/l	> 10 mg/l
- Birds	Japanese quail (<i>Coturnix coturnix japonica</i>)	LD ₅₀	4997 mg/kg	
	Bobwhite quail (<i>Colinus virginianus</i>)	LD ₅₀		> 2510 mg/kg

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- Earthworms	<i>Eisenia foetida</i>	LC ₅₀	> 1000 mg/kg soil	> 1000 mg/kg soil
- Insects	Honeybee (<i>Apis mellifera</i>)	LD ₅₀ , oral	> 140 µg/bee	> 236 µg/bee
		LD ₅₀ , contact	> 100 µg/bee	> 200 µg/bee

12.2. Persistence and degradability

Fosetyl-aluminium is biodegradable, but does not meet the criteria for being readily biodegradable. Primary degradation half-lives are found to be less than 1 day in aerobic soil.

Folpet is not stable in the environment. All major metabolites are readily degraded as well. Primary degradation half-lives are less than one day.

The product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

12.3. Bioaccumulative potential

See section 9 for octanol-water partition coefficients.

Due to its high solubility in water, **fosetyl-aluminium** is not expected to bioaccumulate.

Folpet has a very small potential to bioaccumulate.

12.4. Mobility in soil

Fosetyl-aluminium is mobile in the environment, but is degraded rapidly.

Mobility of **folpet** in soil could not be determined because of high instability.

12.5. Results of PBT and vPvB assessment

None of the ingredients meets the criteria for being PBT or vPvB.

12.6. Other adverse effects

Other relevant hazardous effects in the environment are not known.

♣ SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Remaining quantities of the material and empty but unclean packaging should be regarded as hazardous waste.

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

Disposal of product

According to the Waste Framework Directive (2008/98/EC), possibilities for reuse or reprocessing should first be considered. If this is not feasible, the material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing.

Do not contaminate water, foodstuffs, feed or seed by storage or

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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** 3077
- 14.2. **UN proper shipping name** Environmentally hazardous substance, solid, n.o.s. (folpet)
- 14.3. **Transport hazard class(es)** 9
- 14.4. **Packing group** III
- 14.5. **Environmental hazards** Marine pollutant
- 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 73/78 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**
- Seveso category (Dir. 2012/18/EU): dangerous for the environment
- Dir. 92/85/EEC: The employer shall assess the degree and duration of exposure at the workplace and any possible effect on pregnant women working with this product, and decide which measures should be taken.
- The Young Worker Directive (94/33/EC) prohibits people under the age of 18 to work with this product.

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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.

♣ SECTION 16: OTHER INFORMATION

Relevant changes in the safety data sheet

Minor corrections only

List of abbreviations

CAS	Chemical Abstracts Service
Dir.	Directive
DNEL	Derived No Effect Level
EC	European Community
EC ₅₀	50% Effect Concentration
EEC	European Economic Community
EINECS	European INventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized classification and labelling System of chemicals, Fifth revised edition 2013
IBC	International Bulk Chemical code
IC ₅₀	50% Inhibition Concentration
ISO	International Organisation for Standardisation
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	50% Lethal Concentration
LD ₅₀	50% Lethal Dose
MARPOL	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
NOEL	No Observed Effect Level
n.o.s.	Not otherwise specified
OECD	Organisation for Economic Development and Cooperation
PBT	Persistent, Bioaccumulative, Toxic
PNEC	Predicted No Effect Concentration
Reg.	Regulation
STOT	Specific Target Organ Toxicity
vPvB	very Persistent, very Bioaccumulative
WG	Water dispersible Granules
WHO	World Health Organisation

References

Data measured on the product are unpublished company data. Data on ingredients are available from published literature and can be found several places.

Method for classification

Eye irritation: test data
 Sensitisation – skin: calculation method
 Carcinogenicity: calculation method
 Hazards to the aquatic environment: calculation method

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Used hazard statements	H315	Causes skin irritation.
	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.
	H400	Very toxic to aquatic life.
	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 Corporation / Cheminova A/S / GHB