

Thyborønvej 78 DK-7673 Harboøre

Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 43

Material group	3110	Page 1 of 14		
Product name	AQUAFIN <sup>®</sup> 440 g/I EW	April 2019		
Safety data sheet	Safety data sheet according to EU Reg. 1907/2006 as amended			

# **SAFETY DATA SHEET**

# AQUAFIN® 440 g/I EW

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

+370 687 53378

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

AQUAFIN® 440 g/I EW 1.1. Product identifier ..... Other trade names ..... **SMART EW, FYFANON** 1.2. Relevant identified uses of the substance or mixture and uses advised against ..... Can be used as insecticide only. CHEMINOVA A/S, a subsidiary of FMC Corporation 1.3. Details of the supplier of the safety Thyborønvej 78 data sheet DK-7673 Harboøre Denmark SDS.Ronland@fmc.com 1.4. Emergency telephone number <u>Company</u> ..... +45 97 83 53 53 (24 h; for emergencies only) **Medical emergencies:** Luxembourg: +352 8002 5500 Austria: +43 1 406 43 43 Belgium: +32 70 245 245 Netherlands: +31 30 274 88 88 Bulgaria: +359 2 9154 409 Norway: +47 22 591300 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 England and Wales: 111 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 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)



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	3110	Page 2 of 14
Product name	AQUAFIN® 440 g/I EW	
		April 2019

# **SECTION 2: HAZARDS IDENTIFICATION**

2.1. **Classification of the substance or** Hazards to the aquatic emixture

Hazards to the aquatic environment, acute: Category 1 (H400) chronic: Category 1 (H410)

mammalian toxicity. However, prolonged storage or storage at too high temperatures may induce formation of the much more toxic and synergistic contaminant isomalathion (LD $_{50}$ , oral, rat, 89 mg/kg). Both malathion and isomalathion rapidly enter the body on contact with all

skin surfaces and eyes.

Repeated exposures to cholinesterase inhibitors such as malathion or isomalathion may, without warning, cause increased susceptibility to

doses of any cholinesterase inhibitor.

# 2.2. Label elements

According to EU Reg. 1272/2008 as amended

Hazard pictogram (GHS09) .......



Signal word ...... Warning

Hazard statement

Supplementary hazard statements

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

instructions of use.

Precautionary statements

P273 ...... Avoid release to the environment.

P391 ..... Collect spillage.

P501 ...... Dispose of contents/container as hazardous waste.

or vPvB.



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	3110	Page 3 of 14
Product name	AQUAFIN® 440 g/I EW	
		April 2019

.1.	Substances	The produc	ct is a mixture, no	ot a substance.			
.2.	Mixtures	See section 16 for full text of hazard statements.					
	Active ingredient						
	Malathion	Content: 40	0% by weight				
	CAS name	Butanedioi	c acid, [(dimetho	oxyphosphinothioy	l)thio]-, diethyl est		
	CAS no.	121-75-5					
	IUPAC name(s)	Diethyl (di	methoxythiopho	sphorylthio)succin	ate		
		S-[1,2-bis(Ethoxycarbonyl)ethyl] O,O-dimethyl phosphorodit Malathion 204-497-7 015-041-00-X			yl phosphorodithic		
	ISO name/EU name				• • •		
	EC no. (EINECS no.)						
	EU index no.						
	Classification of the ingredient	Acute oral	toxicity: Categor	ry 4 (H302)			
	C	Acute oral toxicity: Category 4 (H302) Sensitisation – skin: Category 1B (H317)					
		Hazards to	ronment, acute: Ca	tegory 1 (H400)			
			-	chronic:	Category 1 (H410)		
	Structural formula						
		$H_3C-O$ $\stackrel{S}{=}$ $H_3C-O$ $\stackrel{P}{=}$ $H_2$ $\stackrel{C}{=}$ $C-COOC_2H_5$					
		H <sub>3</sub> C-O <sup>2</sup>	-3-6-60062	75			
			H <sub>2</sub> C-COOC <sub>2</sub> I	<b>1</b> 5			
	Reportable ingredient	Content	CAS no.	EC no.	Classification		
		(% w/w)		(EINECS no.)			
			114535-82-9	None	Eye Irrit. 2 (H31		
	Tristyryl phenol-polyethylene glycol-	4					
		· · · · · · · · · · · ·	114525 92 0	(EINECS no.) None	Eve Irrit 2 (I		

l.	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. See physician if irritation persists.
	Ingestion	Inducing vomiting is not recommended. Rinse mouth and drink water or milk. If vomiting does occur, rinse mouth and drink fluids again. Get medical attention immediately.



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	3110	Page 4 of 14
Product name	AQUAFIN® 440 g/I EW	
		April 2019

4.2. **Most important symptoms and** On exposure to larger quantities of aged product, symptoms of poisoning (cholinesterase inhibition) may occur.

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

Immediate medical attention is required in case of ingestion.

It may be helpful to show this safety data sheet to physician.

Cholinesterase inhibition – treatment Decontamination procedures such as y

Decontamination procedures such as whole body washing, gastric lavage and administration of activated charcoal are often required.

**Antidote**: If symptoms of cholinesterase inhibition (see section 11) are present, administer atropine sulphate, which often is a lifesaving antidote, in large doses, TWO to FOUR mg intravenously or intramuscularly as soon as possible. Repeat at 5 to 10 minute intervals until signs of atropinisation appear and maintain full atropinisation until all organophosphate is metabolised.

Obidoxime chloride (Toxogonin), alternatively pralidoxime chloride (2-PAM), may be administered as an adjunct to, but not a substitute for atropine sulphate. Treatment with oxime should be maintained as long as atropine sulphate is administered.

At first sign of pulmonary oedema the patient should be given supplementary oxygen and treated symptomatically.

Relapse can occur after initial improvement. VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS, DEPENDING ON THE SEVERITY OF POISONING.

Much information on (acetyl)cholinesterase inhibition and its treatment can be found on the internet.

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

5.2. Special hazards arising from the substance or mixture

The essential breakdown products are volatile, toxic, malodorous, irritant and inflammable compounds such as hydrogen sulphide, dimethyl sulphide, methyl mercaptan, sulphur dioxide, carbon monoxide, carbon dioxide and phosphorus pentoxide.



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	3110	Page 5 of 14
Product name	AQUAFIN® 440 g/I EW	
		April 2019

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 mist formation as much as possible.

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).

Surface water drains should be covered if appropriate. Minor spills on the floor or other impervious surface should be absorbed onto an absorptive material such as universal binder, hydrated lime, Fuller's earth or other absorbent clays. Collect the contaminated absorbent in suitable containers. Clean area with soda lye and much water. Absorb wash liquid with absorbent and transfer to 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.

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.



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	3110	Page 6 of 14
Product name	AQUAFIN® 440 g/I EW	
		April 2019

### **♣ 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 shoes. 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 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 when stored at temperatures not exceeding 25°C.

The product should never be heated above 55°C. Local heating above this temperature should be avoided as well.

Keep 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.

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

#### 8.1. Control parameters

Personal exposure limits



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 43

Material group	3110	Page 7 of 14
Product name	AQUAFIN® 440 g/I EW	
		April 2019

	Malathion	ACGIH (USA) TLV OSHA (USA) PEL EU, 2000/39/EC as amended Germany, MAK	2017	TWA 1 mg/m³; measured as inhalable fraction and vapor Skin notation; BEI TWA 15 mg/m³ total dust; skin notation Not established  TWA 15 mg/m³ measured as inhalable fraction of the aerosol Peak level 60 mg/m³ BAT
		HSE (UK) WEL	2011	8-hr TWA 10 mg/m <sup>3</sup> ; skin notation
		may e	ever, other personal exposure limits defined by local regulations exist and must be observed.  ns working with this product for a longer period should have	
Molothion		freque level: allow	ent blood tests of their cholinesterase levels. If the cholinesterase falls below a critical point, no further exposure should be ed until it has been determined by means of blood tests that the nesterase level has returned to normal.	
	Malathion DNEL, systen	nic	Not e	stablished
	•	c		has established an AOEL of 0.03 mg/kg bw/day
0.0				
8.2.	Exposure con	itrols	be reconstruction of a construction	used in a closed system, personal protection equipment will not quired. The following is meant for other situations, when the use losed system is not possible, or when it is necessary to open the m. Consider the need to render equipment or piping systems non-dous before opening
			the ur	recautions mentioned below are primarily meant for handling of adiluted product and for preparing the spray solution, but e recommended for spraying as well.
		Respiratory protection	conce discha worke	product does not automatically present an airborne exposure are during normal handling, but in the event of an accidental arge of the material which produces a heavy vapour or mist, ers must put on officially approved respiratory protection ment with a universal filter type including particle filter.
		Protective gloves	nitrile the pr	chemical resistant gloves, such as barrier laminate, butyl rubber, e rubber or viton. The breakthrough times of these materials for roduct are unknown, but it is expected that they will give nate protection if the manual work with the product is kept d.
		Eye protection	imme	safety glasses. It is recommended to have an eye wash fountain diately available in the workplace when there is a potential for

eye contact.



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	3110	Page 8 of 14
Product name	AQUAFIN® 440 g/I EW	
		April 2019



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 ..... Off-white liquid Odour ..... Glue-like Odour threshold ..... Not determined

pH ..... 4.22 at 20°C for a freshly prepared sample in a 1% suspension.

The pH is expected to decrease on prolonged storage.

Melting point/freezing point ....... Below 0°C Initial boiling point and boiling range Not determined

None. The flame is extinguished at 80°C in the Pensky-Martens Flash point .....

> closed cup tester. Not determined

Flammability (solid/gas) .....

Evaporation rate .....

Vapour pressure .....

Not applicable (liquid)

Upper/lower flammability or

explosive limits ..... Not determined **Malathion**:  $4.5 \times 10^{-4} \text{ Pa at } 25^{\circ}\text{C}$ 

1.9 x 10<sup>-2</sup> Pa at 45°C

Vapour density ..... Not determined Relative density .....

Not determined Density: 1.100 g/ml at 20°C

Solubility(ies) ..... Solubility of **malathion** at 20°C in:

> 250 g/lethyl acetate heptane 57 - 67 g/l 148.2 mg/l at 25°C water

**Malathion**:  $\log K_{ow} = 2.75$ 

Partition coefficient n-octanol/water Autoignition temperature .....

> 400°C

Decomposition temperature ....... Not determined

Viscosity ..... 16.4 - 187 mN/m depending on shear rate

Explosive properties ..... Not explosive Not oxidising Oxidising properties .....

#### 9.2. Other information

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

# SECTION 10: STABILITY AND REACTIVITY

10.1. **Reactivity** ...... To our knowledge, the product has no special reactivities.

10.2. Chemical stability ..... Malathion will decompose rapidly when heated to temperatures



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 43

Material group	3110	Page 9 of 14
Product name	AQUAFIN® 440 g/I EW	
		April 2019

above 100°C, significantly increasing the risk of explosion. Direct local heating such as electric heating or by steam must be avoided.

The decomposition is dependent on time as well as temperature due to self-accelerating exothermic and autocatalytic reactions. The reactions involve rearrangements and polymerisation releasing volatile malodorous and inflammable compounds such as dimethyl sulphide and methyl mercaptan.

\* = Based on available data, the classification criteria are not met.

To our knowledge, no specific effects have been observed after single

The following has been measured on the active ingredient malathion:

10.3. **Possibility of hazardous reactions** None known.

10.4. **Conditions to avoid** ...... Heating of the product will produce harmful and irritant vapours.

10.5. **Incompatible materials** ............... Strong alkalis, amines and strong oxidising compounds. The product can corrode metals (but does not meet the criteria for classification).

10.6. **Hazardous decomposition products** See subsection 5.2.

### SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

STOT – single exposure .....

STOT – repeated exposure ........

1. Information on toxicological effects		cological circus	- Bused on available data, the classification effects are not met.		
	Product Acute toxicity		The product is not considered as harmful by inhalation, in contact with skin or if swallowed. * However, it may become harmful after prolonged storage or storage at too high temperatures, see subsection 2.1. The acute toxicity of the product is measured as:		
	Route(s) of entry	- ingestion	$LD_{50}$ , oral, rat: $> 5000$ mg/kg (method FIFRA 81-1)		
		- skin	$LD_{50}$ , dermal, rat: $> 5000$ mg/kg (method FIFRA 81-2)		
		- inhalation	$LC_{50}$ , inhalation, rat: > 7.74 mg/l/4 h (method OECD 403)		
	Skin corrosion/irritation  Serious eye damage/irritation  Respiratory or skin sensitisation		Not irritating to skin (method FIFRA 81-5). *		
			Minimally irritating to eyes (method OECD 405). *		
			Not sensitising (method FIFRA 81-6). *		
Germ cell mutagenicity  Carcinogenicity		ity	The product contains no ingredients known to be mutagenic. *		
			The product contains no ingredients known to be carcinogenic. *		
Reproductive toxicity		<i>/</i>	The product contains no ingredients known to have adverse effects on		

reproduction. \*

exposure. \*



Thyborønvej 78 DK-7673 Harboøre

Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 43

Material group	3110	Page 10 of 14
Product name	AQUAFIN® 440 g/I EW	
		April 2019

Target organ: nervous system

LOAEL: 500 ppm (34.4 mg/kg bw/day) in a 90-day rat study. At this exposure level, minor cholinesterase inhibition was found which generally does not result in observable effects or discomfort. \*

Symptoms and effects, acute and delayed

On exposure to larger quantities of aged product symptoms of poisoning (cholinesterase inhibition) may occur. Symptoms of cholinesterase inhibition: nausea, headache, vomiting, cramps, weakness, blurred vision, pin-point pupils, tightness in chest, laboured breathing, nervousness, sweating, watering of eyes, drooling or frothing of mouth and nose, muscle spasms and coma.

**Malathion** 

Toxicokinetics, metabolism and

distribution

Malathion is rapidly absorbed and excreted. The highest concentration was found in the liver, followed by skin, fat, bone and gastrointestinal tract. It is extensively metabolised. There is no

evidence of accumulation.

harmful after storage at too high temperatures, see section 2.1.

Route(s) of entry - ingestion LD<sub>50</sub>, oral, rat: approx. 5500 mg/kg (method FIFRA 81.01)

skin LD<sub>50</sub>, dermal, rabbit: > 2000 mg/kg (method FIFRA 81.02)
 inhalation LC<sub>50</sub>, inhalation, rat: > 5.02 mg/l/4 h (method FIFRA 81.03)

Skin corrosion/irritation Slightly irritating to skin (method FIFRA 81.05). \*

Serious eye damage/irritation ...... Slightly irritating to eyes (method FIFRA 81.04). \*

Respiratory or skin sensitisation ... Buehler test: negative (method FIFRA 81.06)

Local Lymph Node Assay: negative (method OECD 429)

To our knowledge, no cases of allergic reactions in humans have been

reported.

Tristyryl phenol-polyethylene glycol-phosphoric acid

skin contact. \* The acute toxicity is measured as:

Route(s) of entry - ingestion  $LD_{50}$ , oral, rat: > 2000 mg/kg (method OECD 401)

skin LD<sub>50</sub>, dermal, rat: not determined
 inhalation LC<sub>50</sub>, inhalation, rat: not determined

### **SECTION 12: ECOLOGICAL INFORMATION**



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	3110	Page 11 of 14
Product name	AQUAFIN® 440 g/I EW	
		April 2019

stages of amphibians and insects. It is less toxic to aquatic plants, birds, mammals, soil micro- and macroorganisms.

The ecotoxicity is measured on the product as:

- Birds Bobwhite quail (Colinus virginianus) ...... LD<sub>50</sub>: 528 mg/kg

12.2. **Persistence and degradability** .... **Malathion** is biodegradable, but does not meet the criteria for being

readily biodegradable. It undergoes rapid degradation in the environment and in waste water treatment plants. No adverse effects are found at concentrations up to 100 mg/l in waste water treatment plants. Degradation occurs both aerobically and anaerobically, mostly

biologically.

Primary degradation half-lives vary with circumstances, but are usually one to a few days in aerobic soil and water.

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 n-octanol/water partition coefficient.

**Malathion** is not expected to bioaccumulate. It is rapidly metabolised and excreted (with half-life of approx. 3 days). The measured bioconcentration factor (BCF) of malathion is 95 (average for several

fish species).

is degraded rapidly.

12.5. Results of PBT and 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.

possibilities for reuse or reprocessing should first be considered. If this



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	3110	Page 12 of 14
Product name	AQUAFIN® 440 g/I EW	
		April 2019

is not possible, 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 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	3082
14.2.	UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (malathion)
14.3.	Transport hazard class(es)	9
14.4.	Packing group	Ш
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 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.

All ingredients are covered by EU chemical legislation.



Thyborønvej 78 DK-7673 Harboøre

Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 43

Material group	3110	Page 13 of 14
Product name	AQUAFIN® 440 g/I EW	
		April 2019

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

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

Data measured on the product are unpublished company data. Data on

# ♣ SE

References .....

ECTION 16: OTHER INFORMATION			
Relevant changes in the safety data			
sheet	Minor cor	rections only.	
List of abbreviations	ACGIH	American Conference of Governmental Industrial Hygienists	
	AOEL	Acceptable Operator Exposure Level	
	BAT	Biologischer Arbeitsstoff-Toleranzwert	
	BEI	Biological Exposure Index	
	CAS	Chemical Abstracts Service	
	Dir.	Directive	
	DII. 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	
	LINECS	Substances	
	EW	Emulsion, oil in Water	
	FIFRA	Federal Insecticide, Fungicide and Rodenticide Act	
	GHS	Globally Harmonized classification and labelling System of	
	GHS	chemicals, Fifth revised edition 2013	
	HSE	Health and Safety Executive	
	IBC	International Bulk Chemical code	
	ISO	International Organisation for Standardization	
	IUPAC	International Union of Pure and Applied Chemistry	
	$LC_{50}$	50% Lethal Concentration	
	$LD_{50}$	50% Lethal Dose	
	LOAEL	Lowest Observed Adverse Effect Level	
	MAK	Maximale Arbeitsplatz-Konzentration	
		Set of rules from the International Maritime	
		Organisation (IMO) for prevention of sea pollution	
	n.o.s.	Not otherwise specified	
	OECD	Organisation for Economic Cooperation and Development	
	OSHA	Occupational Safety and Health Administration	
	PBT	Persistent, Bioaccumulative, Toxic	
	PEL	Permissible Exposure Limit	
	PNEC	Predicted No Effect Concentration	
	Reg.	Regulation	
	STOT	Specific Target Organ Toxicity	
	TLV	Threshold Limit Value	
	TWA	Time Weighted Average	
	vPvB	very Persistent, very Bioaccumulative	
	WEL	Workplace Exposure Limit	
	WHO	World Health Organisation	



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	3110	Page 14 of 14
Product name	AQUAFIN® 440 g/I EW	
		April 2019

	ingredients are available from published literature and can be found several places.		
Method for classification	Hazards to the aquatic environment, acute: test data chronic: calculation method		
Used hazard statements	H302 H317 H319 H400 H410 EUH208 EUH401	Harmful if swallowed.  May cause an allergic skin reaction.  Causes serious eye irritation.  Very toxic to aquatic life.  Very toxic to aquatic life with long lasting effects.  Contains malathion. May produce an allergic reaction.  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.

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