

Thyborønvej 78 DK-7673 Harboøre Denmark

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CVR No. DK 12 76 00 43

Product code	6242	Page 1 of 15
Product name	Fury 100 EW	
		June 2020
Safety data sheet according to EU Reg. 1907/2006 as amended		Supersedes August 2019

SAFETY DATA SHEET **Fury 100 EW**

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 Fury 100 EW

Contains zeta-cypermethrin and 1,2-benzisothiazol-3(2H)-

one

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

advised against Can be used as insecticide only.

1.3. Details of the supplier of the safety

data sheet

FMC Agricultural Solutions A/S

Thyborønvej 78 DK-7673 Harboøre

Denmark

SDS.Ronland@fmc.com

1.4. Emergency telephone number

Medical emergencies:

Austria: +43 1 406 43 43 Luxembourg: +352 8002 5500 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

Czech Republic: +420 224 919 293

+48 22 619 08 97 Portugal: 800 250 250 (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 Estonia: +372 7943500 Scotland: +8454 24 24 24 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 112 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



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

Product code	6242	Page 2 of 15
Product name	Fury 100 EW	
		June 2020

For fire, leak, spill or other accident emergencies:

U.S.A.: +1 800 / 424 9300 (CHEMTREC)

All other countries: +1 703 / 527 3887 (CHEMTREC - Collect)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Acute oral toxicity: Category 4 (H302) Acute inhalation toxicity: Category 4 (H332) Sensitisation – skin: Category 1 (H317)

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

chronic: Category 1 (H410)

WHO classification Class II: Moderately hazardous

Health hazards The product is harmful by ingestion and inhalation. It may cause

allergic reactions.

Environmental hazards The product is very toxic to aquatic organisms.

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier Fury 100 EW

Contains zeta-cypermethrin and 1,2-benzisothiazol-3(2H)-one

Hazard pictograms (GHS07, GHS09)





Signal	word	•••••	Warning

Hazard statements

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

Harmful if inhaled. H332

Very toxic to aquatic life with long lasting effects. H410

Supplementary hazard statement

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

instructions of use.

Precautionary statements

P261 Avoid breathing vapours. P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of soap and water. P312 Call a POISON CENTER or physician if you feel unwell. P362+P364 Take off contaminated clothing and wash it before reuse. P501 Dispose of contents and container as hazardous waste.



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

Product code	6242	Page 3 of 15
Product name	Fury 100 EW	
		June 2020

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1	Substances	 The product is a mixture, not a substance.
J.1.	Dubstances .	 The broduct is a mixture, not a substance.

Active ingredient

cyano(3-phenoxyphenyl)methyl ester

(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclo-propanecarboxylate, where the ratio of the (S);(1RS,3RS) isomeric pair to the (S);(1RS,3SR) isomeric pair lies in the ratio range 45-55 to

55-45 respectively

ISO name/EU name Zeta-cypermethrin

EC no. (EINECS no.) None
EU index no. None
Molecular weight 416.30

Classification of the ingredient Acute oral toxicity: Category 3 (H301)

Acute inhalation toxicity: Category 4 (H332)

Specific target organ toxicity (single exposure): Category 3 (H335))
Hazards to the aquatic environment, acute: Category 1 (H400)
chronic: Category 1 (H410)

Reportable ingredients	Content (% w/w)	CAS no.	EC no. (EINECS no.)	Classification
Propane-1,2-diol Reg. no. 01-2119456809-23	6	57-55-6	200-338-0	Not classified
Poly(oxy-1,2-ethanediyl), α -tridecyl- ω -hydroxy-, phosphate, potassium salt	1	68186-36-7	None	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)
1,2-Benzisothiazol-3(2H)-one	Max. 0.02	2634-33-5	220-120-9	Acute Tox . 4 (H302) Skin Irrit 2 (H315) Eye Irrit. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400)

SECTION 4: FIRST AID MEASURES

4.1.	Description of first aid measures	If exposure has occurred, do not wait for symptoms to develop, but
		immediately start the procedures described below.

Inhalation If experiencing any discomfort, immediately remove from exposure.



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

Product code	6242	Page 4 of 15
Product name	Fury 100 EW	
		June 2020

Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance. If breathing has stopped, immediately start artificial respiration and maintain until a physician takes charge of the exposed person. Immediately remove contaminated clothing and footwear. Do not start Skin contact with flushing with water, but wipe off with dry cloth or using talcum powder, followed by washing with water and soap. Thereafter apply lidocaine, vitamin E cream, fatty skin care oil or cream. See physician if contamination is severe or if feeling unwell. 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 immediately. Ingestion Call a doctor or get medical attention immediately. Make the exposed person rinse mouth and then drink 1 or 2 glasses of water or milk. Induce vomiting only if: 1. a significant amount (more than a mouthful) has been ingested 2. patient is fully conscious 3. medical aid is not readily available 4. time since ingestion is less than one hour. Let the patient induce vomiting by touching the back of the throat with a finger. If vomiting occurs, take care that vomit does not enter airways. Let the exposed person rinse mouth and drink fluids again. 4.2. Most important symptoms and Zeta-cypermethrin can cause feelings of burning, tingling or numbness effects, both acute and delayed in exposed areas (paraesthesia). 4.3. Indication of any immediate If any sign of poisoning occurs, call a doctor (physician), clinic or medical attention and special hospital immediately. Explain that the victim has been exposed to a treatment needed pyrethroid insecticide. Describe his/her condition and the extent of exposure. Immediately remove the exposed person from the area where the product is present.

As soon as a feeling of tingling is noted in any skin area (see section 11), it is recommended to immediately apply lidocaine or a vitamin E cream. For this purpose, lidocaine or vitamin E cream should be available at the workplace.

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

Notes to physician

A specific antidote against this substance is not known. Gastric lavage and administration of activated charcoal can be considered. Normally recovery is spontaneous.

If allowed to penetrate the skin, **zeta-cypermethrin** may cause an



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

Product code	6242	Page 5 of 15
Product name	Fury 100 EW	
		June 2020

irritation similar to sunburn. The substance will be drawn into a non-polar environment such as a fat based oil or cream. Vitamin E cream has been reported to be beneficial. Water is highly polar and will not decrease, but may prolong the irritation. Hot water may increase the pain.

For eye contamination, instillation of local anaesthetic can be considered.

SECTION 5: FIRE-FIGHTING MEASURES

5.2. Special hazards arising from the substance or mixture

The essential breakdown products are volatile, toxic, irritant and inflammable compounds such as hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide and various chlorinated organic compounds. Traces of hydrogen cyanide may be present.

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 plan for the avoidance of spills. If spillage does occur, it has to be removed and the area cleaned immediately according to a predetermined plan. It is recommended to clean area or equipment also if contamination is suspected.

Empty, sealable 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 formation of vapour or mist 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



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

Product code	6242	Page 6 of 15
Product name	Fury 100 EW	I 2020
		June 2020

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 be absorbed onto an absorptive material such as universal binder, Fuller's earth or other absorbent clays. Collect the contaminated absorbent in suitable containers. Clean area with detergent 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.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

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.

Keep all unprotected persons and children away from working area.

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.

The work area should always be kept clean. Used personal protection equipment should either be thrown out or be cleaned immediately



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

CVR No. DK 12 76 00 43

Product code	6242	Page 7 of 15
Product name	Fury 100 EW	
		June 2020

after use. Respirator should be cleaned and filter replaced according to instructions provided with respirator.

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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Year

Propane- AIHA (USA) WEEL **1,2-diol** MAK (Germany)

 $2015 10 mg/m^3$

MAK (Germany) HSE (UK) WEL 2014 Cannot be established at present

2011 8-hr TWA

150 ppm (474 mg/m³), total (vapour and particulates)

10 mg/m³ (particulates)

However, other personal exposure limits defined by local regulations may exist and must be observed.

Zeta-cypermethrin

DNEL Not established

The EFSA has established an AOEL of 0.02 mg/kg bw/day

PNEC, aquatic environment 0.0013 ng/l

Propane-1,2-diol



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

Product code	6242	Page 8 of 15
Product name	Fury 100 EW	
		June 2020

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 mist, workers must put on officially approved respiratory protection equipment with a universal filter type including particle filter.



Protective gloves

Wear long 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 immediately if there is a suspicion of contamination. Be careful not to touch anything with contaminated gloves. Used gloves should be thrown out and not be reused. Wash hands with water and soap immediately after work is finished.



Eye protection

Wear face shield rather than goggles or safety glasses. The possibility of eye contact should be excluded.



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



Thyborønvej 78 DK-7673 Harboøre

Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 43

Product code	6242	Page 9 of 15
Product name	Fury 100 EW	
		June 2020

Melting point/freezing point Not determined Initial boiling point and boiling range Not determined

Flash point > 100°C

Evaporation rate Not determined Not applicable (liquid) Flammability (solid/gas)

Upper/lower flammability or

explosive limits Not determined

: 2.53 x 10⁻⁷ Pa at 25°C Vapour pressure **Zeta-cypermethrin**

Not determined Vapour density Relative density 1.0385 at 20°C

Solubility(ies) Solubility of zeta-cypermethrin at 20°C in

> ethyl acetate > 1000 g/1n-heptane 40.12 g/l water 0.0387 mg/l

Partition coefficient n-octanol/water Zeta-cypermethrin : $\log K_{ow} = 5 - 6$ at $24^{\circ}C$

Autoignition temperature > 600°C

Not determined Decomposition temperature

Viscosity is dependent on shear rate Viscosity

63 - 1081 mPa.s at 20°C 47 - 707 mPa.s at 40°C

Explosive properties Not explosive Oxidising properties Not oxidising

9.2. Other information

Miscibility The product is dispersible in water.

SECTION 10: STABILITY AND REACTIVITY

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

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.

Product

The product is harmful by ingestion and inhalation, but is not Acute toxicity

considered harmful by skin contact. The acute toxicity is measured as:

Route(s) of entry LD₅₀, oral, rat: 385 mg/kg (method OECD 401) - ingestion



FMC Agricultural Solutions A/S Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Product code	6242	Page 10 of 15
Product name	Fury 100 EW	
		June 2020

- skin	LD_{50} , dermal, rat: > 2000 mg/kg * (method OECD 402)
- inhalation	LC ₅₀ , inhalation, rat: 2.09 mg/l/4 h (method OECD 403)
Skin corrosion/irritation	May be mildly irritating to skin (method OECD 404). *
Serious eye damage/irritation	Not irritating to eyes (method OECD 405). *
Respiratory or skin sensitisation	Sensitising to skin (method OECD 406).
Germ cell mutagenicity	The product contains no ingredient known to be mutagenic. *
Carcinogenicity	The product contains no ingredients known to be carcinogenic. *
Reproductive toxicity	The product contains no ingredients known to have adverse effects on reproduction. *
STOT – single exposure	No other specific effects after single exposure than mentioned elsewhere in this safety data sheet have been observed. *
STOT – repeated exposure	The following is measured om the active ingredient zeta-cypermethrin: Target organ: nervous system. Repeated exposure may cause neurotoxic effects. Various symptoms of toxicity (ataxia, decreased activity, dehydration) were observed in a 90-day oral test with rats at exposure levels of 70 mg/kg bw/day.
Aspiration hazard	The product does not present an aspiration pneumonia hazard. *
Symptoms and effects, acute and delayed	On contact, zeta-cypermethrin can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia), which is harmless at low exposure, but can be quite painful, especially in the eye. The effect may result from splash, aerosol or transfer from contaminated gloves. The effect is transient, lasting up to 24 hours, but may in exceptional cases last longer. It may be considered as a warning that overexposure has occurred and that work practice should be reviewed.
	If swallowed or inhaled small doses may produce non-specific symptoms (e.g. nausea, vomiting, diarrhoea). Larger doses may produce disturbance of the central nervous system (e.g. tremors, convulsions, coma).
Zeta-cypermethrin Toxicokinetics, metabolism and distribution	After oral administration, zeta-cypermethrin is absorbed, initially widely distributed in the body and finally distributed mostly to the skin and fatty tissues. It is extensively metabolised. It is eliminated almost completely within 72 hours.
Acute toxicity	Zeta-cypermethrin is toxic if swallowed and harmful by inhalation. Toxicity by skin contact is less severe. Results for acute toxicity vary



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690

www.fmc.com

CVR No. DK 12 76 00 43

Product code	6242	Page 11 of 15
Product name	Fury 100 EW	
		June 2020

with study design and vehicle. The following results are mentioned in

literature:

Route(s) of entry - ingestion LD₅₀, oral, rat (male): 134 -557 mg/kg

LD₅₀, oral, rat (female): 86 - 1264 mg/kg

- skin LD₅₀, dermal, rat: > 2000 mg/kg *

- inhalation LC₅₀, inhalation, rat: 1.26 - 2.5 mg/l/4 h

Skin corrosion/irritation Not irritating to skin. *

Serious eye damage/irritation Not irritating to eyes. *

Respiratory or skin sensitisation ... Sensitising when measured according to method OECD 406.

<u>Poly(oxy-1,2-ethanediyl)</u>, α -tridecyl- ω -hydroxy-, phosphate, potassium salt

Acute toxicity The substance may be harmful by ingestion, but is considered as

not harmful by skin contact or by inhalation. The acute toxicity is

measured as:

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

- skin LD₅₀, dermal, rat: not available

- inhalation LC_{50} , inhalation, rat: not available

Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation Severely irritating to eyes.

Respiratory or skin sensitisation ... Not sensitising. *

1,2-Benzisothiazol-3(2H)-one

Acute toxicity The substance is harmful by ingestion.

Route(s) of entry - ingestion LD₅₀, oral, rat (male): 670 mg/kg

LD₅₀, oral, rat (female): 784 mg/kg

(method OPPTS 870.1100, measured on 73% solution)

- skin LD₅₀, dermal, rat: > 2000 mg/kg *

(method OPPTS 870.1200, measured on 73% solution)

- inhalation LC₅₀, inhalation, rat: not available

Serious eye damage/irritation Severely irritating to eyes (method OPPTS 870.2400).

Respiratory or skin sensitisation ... Moderate dermal sensitizer to guinea pigs (method OPPTS 870.2600).

The substance appears to be significantly more sensitising to humans.



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

Product code	6242	Page 12 of 15
Product name	Fury 100 EW	
		June 2020

♣ SECTION 12: ECOLOGICAL INFORMATION				
12.1.	. Toxicity			e to fish, aquatic invertebrates and harmful to aquatic plants, soil micross.
	The ecotoxicity of	of the product was mea	sured as:	
	- Fish	Rainbow trout (Onc	orhynchus mykiss)	96-h LC ₅₀ : 18 μg/l 21-day NOEC: 5.6 μg/l
	- Invertebrates	Daphnids (Daphnia	magna)	48-h EC ₅₀ : 0.34 μg/l 21-day NOEC: 0.10 μg/l
		Amphipods (Gamm	arus pulex)	48-h EC ₅₀ : 0.21 μg/l
	- Algae	Green algae (Scened	desmus subspicatus)	24-h E _r C ₅₀ : 1.6 mg/l
	- Earthworms	Eisenia foetida		14-day LC ₅₀ : 750 mg/kg
	- Insects	Honeybees (Apis me	ellifera)	LD ₅₀ , oral: 0.436 μg/bee LD ₅₀ , contact: 0.021 μg/bee
12.2.	Persistence and degradability			dily biodegradable. Primary degradation few weeks in aerobic soil, depending on
				mounts of not readily biodegradable e degradable in waste water treatment
12.3.	3. Bioaccumulative potential		See section 9 for octanol-water partition coefficients.	
				otential to bioaccumulate, but in view of ic organisms, bioaccumulation is not
12.4.	. Mobility in soil		Zeta-cypermethrin is not mobile in the environment. It binds tightly to soil particles	
12.5.	Results of PBT and vPvB assessment		None of the ingredients meets	the criteria for being PBT or vPvB.
12.6.	6. Other adverse effects		Other relevant hazardous effect	cts in the environment are not known.
SECT	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.



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

Product code	6242	Page 13 of 15
Product name	Fury 100 EW	
		June 2020

possibilities for reuse or reprocessing should first be considered. If this 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. (zeta-cypermethrin)
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 and the IBC code	The product is not transported in bulk by ship.



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

CVR No. DK 12 76 00 43

Product code	6242	Page 14 of 15
Product name	Fury 100 EW	
		June 2020

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

Young people under the age of 18 are not allowed to work with the

substance.

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

List of abbreviations AIHA American Industrial Hygiene Association

AOEL Acceptable Operator Exposure Level

CAS Chemical Abstracts Service

Dir. Directive

DNEL Derived No Effect Level EC European Community EC₅₀ 50% Effect Concentration

E_rC₅₀ 50% Effect Concentration based on growth

EFSA European Food Safety Authority

EINECS European INventory of Existing Commercial Chemical

Substances

EW Emulsion, oil in Water

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 IUPAC International Union of Pure and Applied Chemistry

LC₅₀ 50% Lethal Concentration

LD₅₀ 50% Lethal Dose

MAK Maximale Arbeitsplatz-Konzentration
MARPOL Set of rules from the International Maritime

Organisation (IMO) for prevention of sea pollution

NOEC No Observed Effect Concentration

n.o.s. Not otherwise specified

OECD Organisation for Economic Cooperation and Development OPPTS Office for Prevention, Pesticides and Toxic Substances

PBT Persistent, Bioaccumulative, Toxic PNEC Predicted No Effect Concentration

Reg. Regulation

STOT Specific Target Organ Toxicity TWA Time Weighted Average

vPvB very Persistent, very Bioaccumulative



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

Product code	6242	Page 15 of 15
Product name	Fury 100 EW	I 2020
		June 2020

	WEEL WEL WHO	Workplace Environmental Exposure Level Workplace Exposure Limit World Health Organisation
References		isured on this product are unpublished company data. Data on its are available from published literature and can be found laces.
Method for classification	Test data	
Used hazard statements	H301 H302 H315 H317 H318 H332 H335 H400 H410 H412 EUH401	Toxic if swallowed. Harmful if swallowed. Causes skin irritation May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause respiratory irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. To avoid risks to human health and the environment, comply with the instructions of use.
Advice on training		erial should only be used by persons who are made aware of lous properties and have been instructed in the required ecautions.

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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