

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

1.1. Product identifier

Name : FURY 10 EW
 Product code : 6242

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Insecticide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

FMC CHEMICAL Sprl
 Boulevard de la Plaine, 9/3
 1050 BRUXELLES - BELGIQUE
 T 00 32 2 6459584 - F 00 32 2 6459655
msdsinfo@fmc.com

1.4. Emergency telephone number

Emergency number : 00 32 14 58 45 45 (all countries)

Country	Organisation/Company	Address	Emergency number
BELGIUM	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn B - 1120 Brussels	+32 70 245 245
BULGARIA	National Toxicological Information Centre National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Toteben Boulevard 1606 SOFIA	+359 2 9154 409
ČESKÁ REPUBLIKA	Toxikologické informační středisko	Na Bojišti 1 120 00 Praha 2	+420 224 919 293 +420 224 915 402
DANMARK	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 Copenhagen NV	+45 82 12 12 12
FRANCE	ORFILA	http://www.centres-antipoison.net	+33 (0)1 45 42 59 59
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben Institut für Toxikologie, Klinische Toxikologie und Giftnotruf Berlin	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2	+36 80 20 11 99
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166
ITALY	Centro Antiveneni Ospedale Niguarda Ca' Granda	Piazza Ospedale Maggiore 3 20162 Milano	+39 02 6610 1029
LITHUANIA	Poisons Control and Information Bureau	Siltnamiu 29 2043 Vilnius	+370 523 62052 +370 687 53378
NEDERLAND	Nationaal Vergiftigingen Informatie Centrum (Uitsluitend bestemd om artsen te informeren bij accidentele vergiftigingen)	Heidelberglaan 100 3584 CX Utrecht	+31 30 274 88 88
NORWAY	Giftinformasjonen Directorate of Health and Social Affairs	P.O. Box 7000 St. Olavs Plass 130 Oslo	+47 22 591300
POLAND	Warsaw Poison Control and Information Centre Praski Hospital	Al. Solidarnosci 67 P-03 401 Warszawa	+48 22 619 66 54 +48 22 619 08 97
PORTUGAL	Centro de Informação Antivenenos – Dra Arlinda Borges Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	Institutul National de Sanatate Publica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 Bucuresti, directie.generala {at} insp.gov.ro 050463 Bucuresti	+40 21318 3606
SLOVAKIA	National Toxicological Information Centre University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SLOVENIA	Poison Centre Division of Internal Medicine	University Clinical Centre Zaloska 7 1525 Ljubljana	+ 386 41 650 500
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20

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Country	Organisation/Company	Address	Emergency number
SUOMI	Myrkytystietokeskus	P.O.B 790 (Tukholmankatu 17) HUS SF - 00029 Helsinki	+358 9 471 977
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	08-331231 (Måndag-Fredag; 9.00-17.00) 112 (0.00-24.00)
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0870 600 6266 (UK only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Oral) H302

Acute Tox. 4 (Inhalation) H332

Skin Sens. 1 H317

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

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

Xn; R20/22

R43

N; R50/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

Harmful by inhalation and if swallowed

May cause an allergic skin reaction

Not classified as flammable by EC criteria

Very toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Warning

Hazardous ingredients

: Zeta-cypermethrin

Hazard statements (CLP)

: H302 + H332 - Harmful if swallowed or if inhaled
H317 - May cause an allergic skin reaction
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP)

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

EUH phrases

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

2.3. Other hazards

Other hazards not contributing to the classification

: None, to our knowledge.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zeta-cypermethrin	(CAS No) 52315-07-8 (EC no) 257-842-9	< 20	T; R25 Xn; R20 Xn; R48/22 R43 N; R50/53	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Tridecyl alcoholethoxylate phosphate, salt	(CAS No) 68186-36-7	< 5	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS No) 55965-84-9 (EC index no) 613-167-00-5	<= 0,1	T; R23/24/25 C; R34 R43 N; R50/53	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Name	Product identifier	Specific concentration limits
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS No) 55965-84-9 (EC index no) 613-167-00-5	(C >= 0,0015) R43 (0,06 =< C < 0,6) Xi;R36/38 (C >= 0,6) C;R34

Name	Product identifier	Specific concentration limits
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS No) 55965-84-9 (EC index no) 613-167-00-5	(C >= 0,0015) Skin Sens. 1, H317 (0,06 =< C < 0,6) Eye Irrit. 2, H319 (0,06 =< C < 0,6) Skin Irrit. 2, H315 (C >= 0,6) Skin Corr. 1B, H314

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Move the affected person to the fresh air If the person feels unwell : Call a doctor.
First-aid measures after skin contact	: Remove all contaminated clothing and footwear Wash with soapy water If case of redness or irritation, call a doctor.
First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum) If irritation persists, consult an eye specialist.
First-aid measures after ingestion	: If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink If the person is fully conscious, try to induce vomiting Ask for medical advice.

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

Symptoms/injuries	: Loss of coordination Tremor Convulsions.
Symptoms/injuries after skin contact	: Burns Tingling sensation Numbing.

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

Treat symptomatically and supportively in response to reactions of patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Powder Foam Carbon dioxide (CO2).
Unsuitable extinguishing media	: Water (the product is dangerous for the environment - do not dilute it).

5.2. Special hazards arising from the substance or mixture

Fire hazard	: During combustion : Toxic fumes may be released.
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5.3. Advice for firefighters

Firefighting instructions	: Isolate fire area. Evacuate downwind Contain the extinguishing fluids by bunding (the product is hazardous for the environment) Do not breathe fumes.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment Self-contained breathing apparatus Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Avoid contact with skin and eyes Do not breathe vapours.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Do not allow product to spread into the environment
Contain the spilled material by bunding (product is hazardous for the environment).

6.3. Methods and material for containment and cleaning up

For containment	: Absorb spillage with: Sand/earth, inert absorbent material Neutralize non-recoverable product with : a solution of caustic or soda ash, and an appropriate alcohol (methanol, ethanol or isopropanol).
Methods for cleaning up	: Wash with plenty of water and detergent.
Other information	: Dispose of contaminated material at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Vapour extraction at source.
Hygiene measures	: Always wash hands after handling the product Always take a shower after work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a cool area Keep in a well-ventilated room Protect from moisture Keep away from sources of ignition Keep away from food, drink and animal feeding stuffs Keep out of the reach of children.
Incompatible materials	: Strong oxidizing agents.
Packaging materials	: Original packaging.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Nitrile-rubber protective gloves.
Eye protection	: Safety glasses.
Skin and body protection	: Handling product in large quantities: Impermeable suit (Hypalon, Tyvek, Saranex, PVC...).
Respiratory protection	: In the event of insufficient ventilation: Filtering respiratory protective device with a pesticide canister.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
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Colour	: light brown Beige.
Odour	: slight acid.
Odour threshold	: Not applicable
pH	: 4,15
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: Not applicable
Boiling point	: Not applicable
Flash point	: > 79 °C
Auto-ignition temperature	: > 600 °C
Decomposition temperature	: Not applicable
Flammability (solid, gas)	: No data available
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: Not applicable
Relative density	: 1,0305 (20 °C)
Solubility	: Water: Dispersible
Log Pow	: Not applicable
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 63 - 1081 mPa.s (20°C) - 47 - 707mPa.s (40°C)
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing material according to EC criteria.
Explosive limits	: Not applicable

9.2. Other information

Other properties : Surface tension : 31,4 mN/m (25°C) - 30,1 mN/m (40°C).

SECTION 10: Stability and reactivity

10.1. Reactivity

To our knowledge, the product does not present any particular risk.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

May decompose : on heating.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

On combustion or on thermal decomposition (pyrolysis) releases :

Carbon oxydes (CO, CO₂)

Hydrochloric acid

Chlorine

Hydrogen cyanide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Harmful if inhaled.

FURY 10 EW	
LD50 oral rat	385 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	2,09 mg/l/4h

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
May cause slight temporary irritation

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

Respiratory or skin sensitisation : May cause an allergic skin reaction.

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Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met) Zeta-cypermethrine : No evidence of genotoxicity
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met) Cypermethrin : No carcinogenic potential
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met) Zeta-cypermethrine : NOAEL (reproductive effects) : 22 mg/kg/d
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met) Cypermethrin : Rapidly metabolized
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

FURY 10 EW	
LC50 fishes	0,013 mg/l/96h (0,0013 mg a.s/l)
EC50 Daphnia	0,000827 mg/l/48h (0,000085 mg a.s/l)
ErC50 (algae)	1,6 mg/l (0-24h) (0,16 mg a.s/l)
NOEC (chronic)	0,0001 mg/l/ 21 d (Daphnia magna) (0,00001 mg a.s/l)

12.2. Persistence and degradability

Zeta-cypermethrin (52315-07-8)	
Persistence and degradability	Half-life (in soil) : 6-24 d (Data obtained by analogy with : Cypermethrin cis/trans +/-40/60) DT50 water/sediment : 1.5-2.5 d.

12.3. Bioaccumulative potential

Zeta-cypermethrin (52315-07-8)	
BCF	443 (Data obtained by analogy with : Cypermethrin cis/trans +/-40/60)
Log Pow	5 - 6 (pH = 2; 24 °C)

12.4. Mobility in soil

Zeta-cypermethrin (52315-07-8)	
Ecology - soil	Product adsorbs onto the soil Data obtained by analogy with : cypermethrin cis/trans +/- 40/60.

12.5. Results of PBT and vPvB assessment

Component	
Zeta-cypermethrin (52315-07-8)	Not likely PBT or vPvB, since BCF < 2000

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Discharging into rivers and drains is forbidden.
Waste disposal recommendations	: Dispose of in accordance with relevant local regulations Incinerate at a licensed installation.
Additional information	: After cleaning, recycle or dispose of at an authorised site.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR)	: 3082
UN-No.(IATA)	: 3082
UN-No. (IMDG)	: 3082

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14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description (ADR) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zeta-cypermethrin(52315-07-8)), 9, III, (E)

14.3. Transport hazard class(es)

Class (ADR) : 9
Class (IATA) : 9
Class (IMDG) : 9
Hazard labels (ADR) : 9



14.4. Packing group

Packing group (ADR) : III
Packing group (IATA) : III
Packing group (IMDG) : III

14.5. Environmental hazards

Dangerous for the environment :



Other information : Dangerous for the environment.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90
Classification code (ADR) : M6
Orange plates :



Special provision (ADR) : 274
335
601
Transport category (ADR) : 3
Tunnel restriction code (ADR) : E
Limited quantities (ADR) : 5L
Excepted quantities (ADR) : E1
EAC code : •3Z

14.6.2. Transport by sea

MFAG-No : 171

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

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15.2. Chemical safety assessment

A chemical safety assessment acc. to art. 14 of Regulation (EC) No 1907/2006 is not required, because art. 15 of the same regulation applies

SECTION 16: Other information

Indication of changes:

This sheet was updated (refer to the date at the top of this page)

SDS changed section(s) : 2-12.

Other information : Fury and FMC are registered trademarks of FMC Corporation.

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

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R20	Harmful by inhalation
R20/22	Harmful by inhalation and if swallowed
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R25	Toxic if swallowed
R34	Causes burns
R36/38	Irritating to eyes and skin
R43	May cause sensitisation by skin contact
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
C	Corrosive
N	Dangerous for the environment
T	Toxic
Xi	Irritant
Xn	Harmful

FDS FMC UE (Annexe II REACH)

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