

# SAFETY DATA SHEET



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

---

### SECTION 1. IDENTIFICATION

**Product identifier**

**Product name** FURIA 18 EC

**Other means of identification**

**Product code** 50000405

**Chemical nature** Mixture

**Recommended use of the chemical and restrictions on use**

**Recommended use** Can be used as insecticide only.

**Restrictions on use** Use as recommended by the label.

**Details of the supplier of the safety data sheet****Manufacturer**

FMC Corporation  
2929 WALNUT ST  
PHILADELPHIA PA 19104  
USA  
(215) 299-6000  
SDS-Info@fmc.com

**Emergency telephone**

For leak, fire, spill or accident emergencies, call:  
1 800 / 424-9300 (CHEMTREC - U.S.A.)  
1 703 / 741-5970 (CHEMTREC - International)  
1 703 / 527-3887 (CHEMTREC - Alternate)

Medical emergency:  
U.S.A. & Canada: +1 800 / 331-3148  
All other countries: +1 651 / 632-6793 (Collect)

---

### SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Flammable liquids	: Category 4
Acute toxicity (Oral)	: Category 4
Acute toxicity (Inhalation)	: Category 3
Eye irritation	: Category 2B
Carcinogenicity	: Category 2
Specific target organ toxicity - single exposure	: Category 3 (Respiratory system)

# SAFETY DATA SHEET



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

---

Specific target organ toxicity : Category 2  
- repeated exposure

Aspiration hazard : Category 1

### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H227 Combustible liquid.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H320 Causes eye irritation.  
H331 Toxic if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P260 Do not breathe mist or vapors.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P331 Do NOT induce vomiting.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

# SAFETY DATA SHEET



## FURIA 18 EC

Version 1.0      Revision Date: 11/11/2022      SDS Number: 50000405      Date of last issue: -  
Date of first issue: 11/11/2022

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Solvent naphtha (petroleum), heavy arom.	64742-94-5	$\geq 30$ - $< 50$
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	$\geq 20$ - $< 30$
cypermethrin (ISO)	52315-07-8	$\geq 10$ - $< 20$
calcium dodecylbenzenesulphonate	26264-06-2	$\geq 1$ - $< 5$
2-ethylhexan-1-ol	104-76-7	$\geq 1$ - $< 5$

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- If inhaled : Call a physician or poison control center immediately.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

# SAFETY DATA SHEET



## FURIA 18 EC

Version 1.0	Revision Date: 11/11/2022	SDS Number: 50000405	Date of last issue: - Date of first issue: 11/11/2022
----------------	------------------------------	-------------------------	--

- |   |  |
|---|--|
| If swallowed  | : Clean mouth with water and drink afterwards plenty of water.<br>Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |
| Most important symptoms and effects, both acute and delayed | : Harmful if swallowed.<br>May be fatal if swallowed and enters airways.<br>Causes eye irritation.<br>Toxic if inhaled.<br>May cause respiratory irritation.<br>Suspected of causing cancer.<br>May cause damage to organs through prolonged or repeated exposure.   |
| Notes to physician  | : Treat symptomatically.   |

### SECTION 5. FIRE-FIGHTING MEASURES

- |  |   |
|--|---|
| Suitable extinguishing media                   | : Dry chemical, CO2, water spray or regular foam.   |
| Unsuitable extinguishing media                 | : Do not spread spilled material with high-pressure water streams.  |
| Specific hazards during fire fighting          | : Do not allow run-off from fire fighting to enter drains or water courses.   |
| Hazardous combustion products                  | : Halogenated compounds<br>Carbon oxides<br>Nitrogen oxides (NOx)<br>Chlorine compounds<br>Sulfur oxides  |
| Further information                            | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.<br>For safety reasons in case of fire, cans should be stored separately in closed containments.<br>Use a water spray to cool fully closed containers. |
| Special protective equipment for fire-fighters | : Firefighters should wear protective clothing and self-contained breathing apparatus.  |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : If it can be safely done, stop the leak.<br>Do not touch or walk through the spilled material.<br>Remove all sources of ignition.<br>Use personal protective equipment.<br>Ensure adequate ventilation. |
|---|---|

# SAFETY DATA SHEET



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

Evacuate personnel to safe areas.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.  
For disposal considerations see section 13.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Prevent unauthorized access.  
No smoking.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Do not store near acids.

Further information on storage stability : No decomposition if stored and applied as directed.

# SAFETY DATA SHEET



## FURIA 18 EC

Version 1.0      Revision Date: 11/11/2022      SDS Number: 50000405      Date of last issue: -  
Date of first issue: 11/11/2022

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Solvent naphtha (petroleum), heavy arom.	64742-94-5	TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	TWA (Inhalable particulate matter)	5 mg/m <sup>3</sup>	ACGIH

#### Personal protective equipment

- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
- Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles
- Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Protective measures : Plan first aid action before beginning work with this product.
- Hygiene measures : Avoid contact with skin, eyes and clothing.  
Provide adequate ventilation.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and immediately after handling the product.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Color : brown  
amber

# SAFETY DATA SHEET



## FURIA 18 EC

Version 1.0	Revision Date: 11/11/2022	SDS Number: 50000405	Date of last issue: - Date of first issue: 11/11/2022
----------------	------------------------------	-------------------------	--

---

Odor	: aromatic
Odor Threshold	: No data available
pH	: 4.2 - 4.4
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: > 174 °F / > 79 °C
Evaporation rate	: No data available
Flammability (liquids)	: Sustains combustion
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: No data available
Density	: 8.3 lb/gal
Solubility(ies)	
Water solubility	: emulsifiable
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

# SAFETY DATA SHEET



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. Vapors may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	No data available

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if swallowed.  
Toxic if inhaled.

#### Product:

Acute oral toxicity	:	LD50 (Rat): 810 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 0.798 mg/l Exposure time: 4 h Test atmosphere: dust/mist  LC50: 3.1 mg/l Exposure time: 1 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Result	:	slight irritation
Remarks	:	May cause skin irritation and/or dermatitis.

#### Serious eye damage/eye irritation

Causes eye irritation.

#### Product:

Result	:	Irritation to eyes, reversing within 7 days
Remarks	:	Vapors may cause irritation to the eyes, respiratory system and the skin.



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

---

**Respiratory or skin sensitization****Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Product:**

Result : Does not cause skin sensitization.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****Solvent naphtha (petroleum), heavy arom.:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Bone marrow chromosome aberration.  
Species: Rat  
Application Route: inhalation (vapor)  
Result: negative

**Distillates (petroleum), solvent-dewaxed light paraffinic:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Metabolic activation: Metabolic activation  
Method: OECD Test Guideline 471  
Result: positive  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: Based on data from similar materials

**cypermethrin (ISO):**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative  
  
Test Type: unscheduled DNA synthesis assay  
Result: negative

Genotoxicity in vivo : Test Type: chromosome aberration assay  
Species: Chinese hamster

# SAFETY DATA SHEET



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

---

Cell type: Bone marrow  
Application Route: Oral  
Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### **calcium dodecylbenzenesulphonate:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: chromosome aberration assay  
Species: Rat (male and female)  
Application Route: Oral  
Exposure time: 90 d  
Result: negative  
Remarks: Based on data from similar materials

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### **2-ethylhexan-1-ol:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

### **Carcinogenicity**

Suspected of causing cancer.

#### **Product:**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### **Reproductive toxicity**

Not classified based on available information.

# SAFETY DATA SHEET



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

---

### **Components:**

#### **cypermethrin (ISO):**

- Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: Oral  
General Toxicity F1: NOAEL: 22 mg/kg bw/day  
Method: OECD Test Guideline 416  
Result: negative
- Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
General Toxicity Maternal: NOAEL: 12.5 mg/kg bw/day  
Developmental Toxicity: NOAEL: 35 mg/kg bw/day  
Method: OECD Test Guideline 426  
Result: negative
- Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

#### **calcium dodecylbenzenesulphonate:**

- Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Application Route: Ingestion  
General Toxicity Parent: NOAEL: 400 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: negative
- Effects on fetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Ingestion  
General Toxicity Maternal: NOAEL: 300 mg/kg body weight  
Developmental Toxicity: NOAEL: 600 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: negative
- Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

#### **2-ethylhexan-1-ol:**

- Effects on fetal development : Test Type: Embryo-fetal development  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 414  
Result: negative

#### **STOT-single exposure**

May cause respiratory irritation.

### **Product:**

- Assessment : May cause respiratory irritation.

# SAFETY DATA SHEET



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

---

### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Product:

Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### Repeated dose toxicity

#### Components:

##### **Solvent naphtha (petroleum), heavy arom.:**

Species	: Rat, male and female
NOAEC	: 0.9 - 1.8 mg/l
Application Route	: inhalation (vapor)
Exposure time	: 12 months

##### **cypermethrin (ISO):**

Species	: Dog
NOAEL	: 6 mg/kg bw/day
LOAEL	: 18 mg/kg bw/day
Application Route	: Oral
Exposure time	: 90 Days
Remarks	: Based on data from similar materials

Species	: Rat
NOAEL	: 16.7 mg/kg bw/day
LOAEL	: 33.7 mg/kg bw/day
Application Route	: Oral
Exposure time	: 90 Days
Target Organs	: Nervous system

##### **calcium dodecylbenzenesulphonate:**

Species	: Rat, male and female
NOAEL	: 85 mg/kg
LOAEL	: 145 mg/kg
Application Route	: Oral
Exposure time	: 9 Months
Remarks	: Based on data from similar materials

Species	: Rat, male and female
NOAEL	: 100 mg/kg
LOAEL	: 200 mg/kg
Application Route	: Oral
Exposure time	: 28 Days
Method	: OECD Test Guideline 422
Remarks	: Based on data from similar materials

Species	: Rat, male
LOAEL	: 286 mg/kg
Application Route	: Skin contact

# SAFETY DATA SHEET



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

Exposure time : 15 Days  
Remarks : Based on data from similar materials

### 2-ethylhexan-1-ol:

Species : Rat  
: 250 mg/kg  
Application Route : Oral  
Exposure time : 13 weeks  
Method : OECD Test Guideline 408

### Aspiration toxicity

May be fatal if swallowed and enters airways.

### Product:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

### Experience with human exposure

### Components:

#### Solvent naphtha (petroleum), heavy arom.:

Skin contact : Symptoms: Repeated exposure may cause skin dryness or cracking.

#### cypermethrin (ISO):

General Information : Symptoms: May cause paraesthesia

### Further information

### Product:

Remarks : Solvents may degrease the skin.

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

### Components:

#### Solvent naphtha (petroleum), heavy arom.:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): 1.4 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Method: OECD Test Guideline 202

## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): 1 - 3 mg/l Exposure time: 24 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EL50 (Daphnia magna (Water flea)): 0.89 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
Toxicity to microorganisms	:	LL50 (Tetrahymena pyriformis): 677.9 mg/l Exposure time: 72 h Test Type: Growth inhibition

**Distillates (petroleum), solvent-dewaxed light paraffinic:**

Toxicity to fish	:	LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	NOELR (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	:	NOELR (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l Exposure time: 14 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	(Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211
Toxicity to microorganisms	:	NOEL: > 1.93 mg/l Exposure time: 0.16 h

**cypermethrin (ISO):**

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.69 µg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.141 µg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (algae): > 1 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	:	NOEC (Fish): 0.015 µg/l Exposure time: 21 d

# SAFETY DATA SHEET



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Crustaceans): 0.01 µg/l  
Exposure time: 21 d

Toxicity to soil dwelling organisms : LC50 (worms): > 100 mg/kg  
Exposure time: 14 d

Toxicity to terrestrial organisms : LD50 (Colinus virginianus (Bobwhite quail)): > 2,025 mg/kg

NOEC (Colinus virginianus (Bobwhite quail)): 150 mg/kg  
End point: Reproduction Test

LD50 (Apis mellifera (bees)): 0.059 µg/bee

LC50 (Apis mellifera (bees)): 0.033 µg/bee

### calcium dodecylbenzenesulphonate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 10 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

LC50 (Pimephales promelas (fathead minnow)): 4.6 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.5 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 7.9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

EC50 (Pseudokirchneriella subcapitata (green algae)): 65.4 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1.65 mg/l  
Exposure time: 21 d  
Remarks: Based on data from similar materials

NOEC (Daphnia magna (Water flea)): 1.18 mg/l  
Exposure time: 21 d  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): 500 mg/l  
Exposure time: 3 h

# SAFETY DATA SHEET



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : LC50 (*Eisenia fetida* (earthworms)): 1,000 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 207

Toxicity to terrestrial organisms : LD50 (*Colinus virginianus* (Bobwhite quail)): 1,356 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 223

### 2-ethylhexan-1-ol:

Toxicity to fish : LC50 (*Leuciscus idus* (Golden orfe)): 17.1 - 28.2 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 39 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC10 (*Desmodesmus subspicatus* (green algae)): 3.2 mg/l  
Exposure time: 72 h

EC50 (*Desmodesmus subspicatus* (green algae)): 11.5 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC50 (*Anabaena flos-aquae* (cyanobacterium)): 16.6 mg/l  
Exposure time: 72 h

### Persistence and degradability

#### Components:

#### **Solvent naphtha (petroleum), heavy arom.:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 58.6 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

#### **Distillates (petroleum), solvent-dewaxed light paraffinic:**

Biodegradability : Result: Inherently biodegradable.  
Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

#### **cypermethrin (ISO):**

Biodegradability : Result: Not readily biodegradable.

#### **calcium dodecylbenzenesulphonate:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301E

### 2-ethylhexan-1-ol:



# SAFETY DATA SHEET



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

---

Biodegradability : Result: Readily biodegradable.

### Bioaccumulative potential

#### Components:

##### **Solvent naphtha (petroleum), heavy arom.:**

Bioaccumulation : Remarks: The product/substance has a potential to bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 3.72  
Method: QSAR

##### **cypermethrin (ISO):**

Bioaccumulation : Remarks: Accumulation in aquatic organisms is expected.

Partition coefficient: n-octanol/water : log Pow: 5 - 6 (75 °F / 24 °C)

##### **calcium dodecylbenzenesulphonate:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 70.79  
Method: QSAR

Partition coefficient: n-octanol/water : log Pow: 4.77 (77 °F / 25 °C)

##### **2-ethylhexan-1-ol:**

Partition coefficient: n-octanol/water : log Pow: 2.9 (77 °F / 25 °C)

### Mobility in soil

#### Components:

##### **Solvent naphtha (petroleum), heavy arom.:**

Distribution among environmental compartments : Remarks: Expected to partition to sediment and wastewater solids. Moderately volatile.

##### **cypermethrin (ISO):**

Distribution among environmental compartments : Remarks: immobile

### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S.

# SAFETY DATA SHEET



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

### Components:

#### **cypermethrin (ISO):**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14. TRANSPORT INFORMATION

### **International Regulations**

#### **UNRTDG**

UN number : UN 3352  
Proper shipping name : PYRETHROID PESTICIDE, LIQUID, TOXIC (Cypermethrin)  
Class : 6.1  
Packing group : III  
Labels : 6.1

#### **IATA-DGR**

UN/ID No. : UN 3352  
Proper shipping name : Pyrethroid pesticide, liquid, toxic (Cypermethrin)  
Class : 6.1  
Packing group : III  
Labels : Toxic  
Packing instruction (cargo aircraft) : 663  
Packing instruction (passenger aircraft) : 655  
Environmentally hazardous : yes

#### **IMDG-Code**

# SAFETY DATA SHEET



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

UN number	: UN 3352
Proper shipping name	: PYRETHROID PESTICIDE, LIQUID, TOXIC (Cypermethrin)
Class	: 6.1
Packing group	: III
Labels	: 6.1
EmS Code	: F-A, S-A
Marine pollutant	: yes

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

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

UN/ID/NA number	: UN 3352
Proper shipping name	: Pyrethroid pesticide, liquid toxic (Cypermethrin)
Class	: 6.1
Packing group	: III
Labels	: TOXIC
ERG Code	: 151
Marine pollutant	: yes

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

# SAFETY DATA SHEET



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermedi-ate or Final VOC's (40 CFR 60.489):

2-ethylhexan-1-ol	104-76-7	>= 1 - < 5 %
-------------------	----------	--------------

### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Ta-ble 116.4A:

calcium dodecylben-zenesulphonate	26264-06-2	>= 1 - < 5 %
-----------------------------------	------------	--------------

acetic acid	64-19-7	>= 0 - < 0.1 %
-------------	---------	----------------

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

calcium dodecylben-zenesulphonate	26264-06-2	>= 1 - < 5 %
-----------------------------------	------------	--------------

acetic acid	64-19-7	>= 0 - < 0.1 %
-------------	---------	----------------

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

### US State Regulations

#### Massachusetts Right To Know

Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9
cypermethrin (ISO)	52315-07-8
calcium dodecylbenzenesulphonate	26264-06-2
2-ethylhexan-1-ol	104-76-7

#### Pennsylvania Right To Know

Solvent naphtha (petroleum), heavy arom.	64742-94-5
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9
cypermethrin (ISO)	52315-07-8
Castor oil, ethoxylated	61791-12-6
calcium dodecylbenzenesulphonate	26264-06-2
2-ethylhexan-1-ol	104-76-7
acetic acid	64-19-7

#### Maine Chemicals of High Concern

cypermethrin (ISO)	52315-07-8
--------------------	------------

#### Vermont Chemicals of High Concern

cypermethrin (ISO)	52315-07-8
--------------------	------------

#### Washington Chemicals of High Concern

cypermethrin (ISO)	52315-07-8
--------------------	------------

#### California List of Hazardous Substances

Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9
calcium dodecylbenzenesulphonate	26264-06-2

#### California Permissible Exposure Limits for Chemical Contaminants

Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9
---	------------

#### The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

# SAFETY DATA SHEET



## FURIA 18 EC

Version 1.0	Revision Date: 11/11/2022	SDS Number: 50000405	Date of last issue: - Date of first issue: 11/11/2022
----------------	------------------------------	-------------------------	--

---

AIIC	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.  cypermethrin (ISO)
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

---

## SECTION 16. OTHER INFORMATION

### Further information

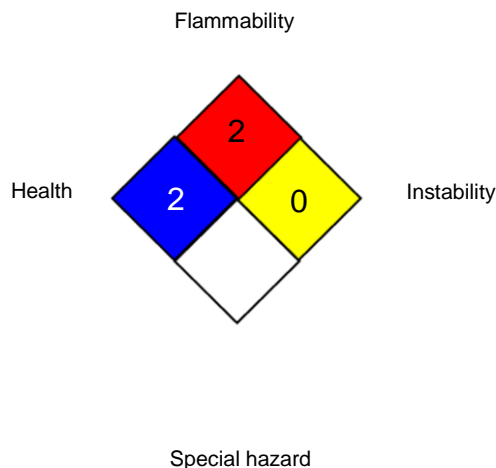
# SAFETY DATA SHEET



## FURIA 18 EC

Version 1.0      Revision Date: 11/11/2022      SDS Number: 50000405      Date of last issue: -  
Date of first issue: 11/11/2022

### NFPA 704:



0 No health threat, 1 Slightly Hazardous, 2 Hazardous, 3 Extreme danger, 4 Deadly

### HMIS® IV:

HEALTH	*	3
FLAMMABILITY		2
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH / TWA : 8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Sub-

# SAFETY DATA SHEET



## FURIA 18 EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/11/2022	50000405	Date of first issue: 11/11/2022

---

stance Inventory; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Disclaimer

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to insure that this document is the most current available from FMC Corporation. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the information provided herein. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. The user is responsible for determining whether the product is fit for a particular purpose and suitable for the user's conditions and methods of use. Since the conditions and methods of use are beyond the control of FMC Corporation, FMC Corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

US / EN

### Prepared by:

FMC Corporation  
FMC Logo - Trademark of FMC Corporation  
© 2021 FMC Corporation. All Rights Reserved.

**End of Material Safety Data Sheet**