

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

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

1.1 Product identifier

Product name FYFANON 500 g/L EC

Other means of identification

Product code 50000605

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

Use of the Sub- stance/Mixture	Insecticide
Recommended restrictions on use	Use as recommended by the label.

1.3 Details of the supplier of the safety data sheet

Supplier Address

FMC Agricultural Solutions A/S
Thyborønvej 78
DK-7673 HARBOØRE
Denmark

Telephone: +45 9690 9690
Telefax: +45 9690 9691
E-mail address: SDS-Info@fmc.com

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:
Denmark: 45-69918573 (CHEMTREC)

Medical emergency:
Denmark: +45 82 12 12 12

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version 1.0	Revision Date: 01.06.2022	SDS Number: 50000605	Date of last issue: - Date of first issue: 01.06.2022
----------------	------------------------------	-------------------------	--

Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe mist or vapours.
- P273 Avoid release to the environment.

Response:

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P331 Do NOT induce vomiting.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- P391 Collect spillage.

Hazardous components which must be listed on the label:

xylene
ethylbenzene
Solvent naphtha (petroleum), heavy arom.

Additional Labelling

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version 1.0 Revision Date: 01.06.2022 SDS Number: 50000605 Date of last issue: -
Date of first issue: 01.06.2022

- EUH208 Contains malathion (ISO) [containing $\leq 0,03$ % isomalathion]. May produce an allergic reaction.
- EUH401 To avoid risks to human health and the environment, comply with instructions of use.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
malathion (ISO) [containing $\leq 0,03$ % isomalathion]	121-75-5 204-497-7 015-041-00-X	Acute Tox. 4; H302 Skin Sens. 1; H317 Carc. 1B; H350 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1.000 M-Factor (Chronic aquatic toxicity): 1.000	≥ 30 - < 50
xylene	1330-20-7 215-535-7 601-022-00-9	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (hearing organs) Asp. Tox. 1; H304 Aquatic Chronic 3;	≥ 30 - < 50

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version 1.0 Revision Date: 01.06.2022 SDS Number: 50000605 Date of last issue: -
Date of first issue: 01.06.2022

		H412 Acute toxicity estimate Acute dermal toxicity: 1.100 mg/kg	
ethylbenzene	100-41-4 202-849-4 601-023-00-4	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 (hearing organs) Asp. Tox. 1; H304 Aquatic Chronic 3; H412 Acute toxicity estimate Acute inhalation toxicity (vapour): 17,8 mg/l	>= 2,5 - < 10
Solvent naphtha (petroleum), heavy arom.	64742-94-5 265-198-5 649-424-00-3	Asp. Tox. 1; H304 Aquatic Chronic 2; H411 STOT SE 3; H336 EUH066	>= 1 - < 2,5
calcium bis(dodecylbenzenesulphonate), branched	70528-83-5 274-654-2	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 Acute toxicity estimate Acute oral toxicity: 3.333 mg/kg Acute dermal toxicity: 1.470 mg/kg	>= 1 - < 3
toluene	108-88-3 203-625-9 601-021-00-3	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361d STOT SE 3; H336 (Central nervous system) STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 0,25 - < 1

For explanation of abbreviations see section 16.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

SECTION 4: First aid measures

4.1 Description of first aid measures

- | | |
|-------------------------|--|
| General advice | : Move out of dangerous area.
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 | : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
Remove to fresh air immediately. Get medical attention immediately. |
| In case of skin contact | : If on skin, rinse well with water.
Wash off immediately with plenty of water for at least 15 minutes.
If skin irritation persists, call a physician.
Remove contaminated clothing. If irritation develops, get medical attention. |
| 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. |
| If swallowed | : Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|-------|--|
| Risks | : Malathion is a cholinesterase inhibitor affecting the central and peripheral nervous systems producing respiratory depression.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
May cause damage to organs through prolonged or repeated exposure. |
|-------|--|

4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|-----------|--------------------------|
| Treatment | : Treat symptomatically. |
|-----------|--------------------------|

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Thermal decomposition can lead to release of irritating gases and vapours.
Oxides of phosphorus
Carbon oxides
Sulphur oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.
Dike runoff from fire control activities for later disposal.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene.
Never return spills in original containers for re-use.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

6.2 Environmental precautions

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.

6.3 Methods and material for containment and cleaning up

Methods for 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).

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : 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.

Advice on common storage : Do not store near acids.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version 1.0 Revision Date: 01.06.2022 SDS Number: 50000605 Date of last issue: -
Date of first issue: 01.06.2022

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

7.3 Specific end use(s)

Specific use(s) : Registered pesticide to be used in accordance with a label approved by country-specific regulatory authorities.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
malathion (ISO) [containing ≤ 0,03 % isomalathion]	121-75-5	GV	5 mg/m ³	DK OEL
Further information	Means that the substance can be absorbed through the skin.			
xylene	1330-20-7	TWA	50 ppm 221 mg/m ³	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m ³	2000/39/EC
		GV	25 ppm 109 mg/m ³	DK OEL
Further information	Means that the substance can be absorbed through the skin., Guiding list of organic solvents.			
ethylbenzene	100-41-4	TWA	100 ppm 442 mg/m ³	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	200 ppm 884 mg/m ³	2000/39/EC
		GV	50 ppm 217 mg/m ³	DK OEL
Further information	Means that the substance can be absorbed through the skin., Means that the substance is included in the list of substances considered carcinogenic., Guiding list of organic solvents., The substance has an EC-limit value			
toluene	108-88-3	TWA	50 ppm 192 mg/m ³	2006/15/EC
Further information	Indicative, Identifies the possibility of significant uptake through the skin			
		STEL	100 ppm 384 mg/m ³	2006/15/EC
		GV	25 ppm 94 mg/m ³	DK OEL
Further information	Means that the substance can be absorbed through the skin., Guiding list of organic solvents., The substance has an EC-limit value			

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version 1.0 Revision Date: 01.06.2022 SDS Number: 50000605 Date of last issue: -
Date of first issue: 01.06.2022

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
xylene	Workers	Inhalation	Long-term systemic effects	221 mg/m3
	Workers	Inhalation	Acute systemic effects	442 mg/m3
	Workers	Inhalation	Long-term local effects	221 mg/m3
	Workers	Inhalation	Acute local effects	442 mg/m3
	Workers	Dermal	Long-term systemic effects	212 mg/kg
	Consumers	Inhalation	Long-term systemic effects	66,3 mg/m3
	Consumers	Inhalation	Acute systemic effects	260 mg/m3
	Consumers	Inhalation	Long-term local effects	65,3 mg/m3
	Consumers	Inhalation	Acute local effects	260 mg/m3
	Consumers	Dermal	Long-term systemic effects	125 mg/m3
	Consumers	Dermal	Long-term systemic effects	12,5 mg/kg
ethylbenzene	Workers	Inhalation	Long-term systemic effects	77 mg/m3
	Workers	Inhalation	Long-term local effects	293 mg/m3
	Workers	Skin contact	Long-term systemic effects	180 mg/kg
toluene	Workers	Inhalation	Long-term systemic effects	192 mg/m3
	Workers	Inhalation	Acute systemic effects	384 mg/m3
	Workers	Inhalation	Long-term local effects	192 mg/m3
	Workers	Inhalation	Acute local effects	384 mg/m3
	Workers	Dermal	Long-term systemic effects	384 mg/m3
	Consumers	Inhalation	Long-term systemic effects	56,5 mg/m3
	Consumers	Inhalation	Long-term systemic effects	226 mg/m3
	Consumers	Inhalation	Long-term local effects	56,5 mg/m3
	Consumers	Inhalation	Acute local effects	226 mg/m3
	Consumers	Dermal	Long-term systemic effects	226 mg/kg
	Consumers	Oral	Long-term systemic effects	

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
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SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version 1.0 Revision Date: 01.06.2022 SDS Number: 50000605 Date of last issue: -
Date of first issue: 01.06.2022

malathion (ISO) [containing ≤ 0,03 % isomalathion]	Fresh water	1,2
xylene	Fresh water	0,327 mg/l
	Intermittent use (freshwater)	0,327 mg/l
	Marine water	0,327 mg/l
	Sewage treatment plant	6,58 mg/l
	Fresh water sediment	12,46 mg/kg
	Marine sediment	12,46 mg/kg
ethylbenzene	Fresh water	0,1 mg/l
	Marine water	0,01 - 0,1 mg/l
	Sewage treatment plant	9,6 mg/l
	Fresh water sediment	13,7 mg/kg dry weight (d.w.)
	Marine sediment	1,37 mg/kg dry weight (d.w.)
	Intermittent use/release	0,100 mg/l
toluene	Fresh water	0,68 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

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.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : No personal respiratory protective equipment normally required.

Protective measures : Plan first aid action before beginning work with this product.
Always have on hand a first-aid kit, together with proper instructions.
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Ensure that eye flushing systems and safety showers are located close to the working place.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	colourless light yellow
Odour	:	slight aromatic
Odour Threshold	:	No data available
Melting point/freezing point	:	< 0 °C
Initial boiling point and boiling range	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	ca. 30 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	4,3 (22 °C) Concentration: 10 g/l
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	2,9 mm ² /s (22 °C)
Solubility(ies)		
Water solubility	:	emulsifiable
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Density	:	1.028 g/l

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

Relative vapour density : No data available

Particle characteristics

Particle size : No data available

Particle Size Distribution : No data available

Shape : No data available

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : Sustains combustion

SECTION 10: Stability and reactivity

10.1 Reactivity No decomposition if stored and applied as directed.

10.2 Chemical stability No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

See subsection 5.2.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version 1.0	Revision Date: 01.06.2022	SDS Number: 50000605	Date of last issue: - Date of first issue: 01.06.2022
----------------	------------------------------	-------------------------	--

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Remarks: Based on data from similar materials

Components:

malathion (ISO) [containing ≤ 0,03 % isomalathion]:

Acute oral toxicity : LD50 (Rat): 1.857 mg/kg
Method: OECD Test Guideline 401
Assessment: The component/mixture is moderately toxic after
single ingestion.
Remarks: Based on data from similar materials

LD50 (Rat): > 5.000 mg/kg
Method: FIFRA 81.01

Acute inhalation toxicity : LC50 (Rat): > 5,02 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: EPA OPP 81 - 3
Assessment: The component/mixture is minimally toxic after
short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg
Method: FIFRA 81.02
Assessment: The substance or mixture has no acute dermal
toxicity

xylene:

Acute oral toxicity : LD50 (Rat, male): 3.523 mg/kg
Method: Regulation (EC) No. 440/2008, Annex, B.1 bis

LD50 (Rat, female): > 4.000 mg/kg
Method: Regulation (EC) No. 440/2008, Annex, B.1 bis

Acute inhalation toxicity : LC50 (Rat, male and female): 27,6 mg/l, 6350 ppm
Exposure time: 4 h
Test atmosphere: vapour
Method: Regulation (EC) No. 440/2008, Annex, B.2

Acute dermal toxicity : Acute toxicity estimate: 1.100 mg/kg
Method: Converted acute toxicity point estimate

LD50 (Rabbit, male): > 4.200 mg/kg

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

ethylbenzene:

Acute oral toxicity : LD50 Oral (Rat, male and female): 3.500 mg/kg

Acute inhalation toxicity : LC50 (Rat): 17,8 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute toxicity estimate: 17,8 mg/l
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : LD50 (Rabbit, male): 15.400 mg/kg

Solvent naphtha (petroleum), heavy arom.:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 420
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 4,688 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

calcium bis(dodecylbenzenesulphonate), branched:

Acute oral toxicity : Acute toxicity estimate: 3.333 mg/kg

Acute dermal toxicity : Acute toxicity estimate: 1.470 mg/kg

toluene:

Acute oral toxicity : LD50 (Rat): 5.580 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 25,7 mg/l
Exposure time: 4 h
Test atmosphere: vapour

LC50 (Rat, female): 30 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : (Rabbit): 12.267 mg/kg

Skin corrosion/irritation

Causes skin irritation.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

Product:

Result : slight irritation

Remarks : May cause skin irritation in susceptible persons.

Components:

malathion (ISO) [containing $\leq 0,03$ % isomalathion]:

Method : FIFRA 81.05

Result : slight irritation

xylene:

Species : Rabbit

Result : Skin irritation

Remarks : Based on data from similar materials

ethylbenzene:

Species : Rabbit

Remarks : Moderate skin irritation

Solvent naphtha (petroleum), heavy arom.:

Species : Rabbit

Result : No skin irritation

Assessment : Repeated exposure may cause skin dryness or cracking.

calcium bis(dodecylbenzenesulphonate), branched:

Result : Skin irritation

toluene:

Species : Rabbit

Assessment : Repeated exposure may cause skin dryness or cracking.

Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Result : slight irritation

Remarks : Based on data from similar materials

Remarks : May cause substantial but temporary eye damage.

Components:

malathion (ISO) [containing $\leq 0,03$ % isomalathion]:

Method : FIFRA 81.04

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

Result : slight irritation

xylene:

Species : Rabbit
Result : Moderate eye irritation

ethylbenzene:

Species : Rabbit
Result : No eye irritation

Solvent naphtha (petroleum), heavy arom.:

Species : Rabbit
Result : No eye irritation

calcium bis(dodecylbenzenesulphonate), branched:

Result : Irreversible effects on the eye

toluene:

Species : Rabbit
Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Assessment : Not a skin sensitizer.
Result : Does not cause skin sensitisation.

Components:

malathion (ISO) [containing ≤ 0,03 % isomalathion]:

Test Type : Buehler Test
Method : FIFRA 81.06
Result : Does not cause skin sensitisation.

Test Type : Local lymph node assay (LLNA)
Method : OECD Test Guideline 429
Result : Does not cause skin sensitisation.

Test Type : Magnussen-Kligman test
Method : OECD Test Guideline 406
Result : May cause sensitisation by skin contact.
Remarks : Based on data from similar materials

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

xylene:

Test Type	: Local lymph node assay (LLNA)
Exposure routes	: Skin contact
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Does not cause skin sensitisation.

Solvent naphtha (petroleum), heavy arom.:

Test Type	: Maximisation Test
Species	: Guinea pig
Result	: Not a skin sensitizer.

toluene:

Test Type	: Maximisation Test
Species	: Guinea pig
Result	: Not a skin sensitizer.

Germ cell mutagenicity

Not classified based on available information.

Product:

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

Components:

malathion (ISO) [containing $\leq 0,03$ % isomalathion]:

Genotoxicity in vitro	: Test Type: Ames test Result: negative
-----------------------	--

Test Type: In vitro mammalian cell gene mutation test
Result: positive
Remarks: Based on data from similar materials

Test Type: unscheduled DNA synthesis assay
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo	: Test Type: chromosome aberration assay Species: Rat Result: negative Remarks: Based on data from similar materials
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Test Type: unscheduled DNA synthesis assay
Species: Rat
Result: negative
Remarks: Based on data from similar materials

xylene:

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Method: Regulation (EC) No. 440/2008, Annex, B.10
Result: negative

Test Type: sister chromatid exchange assay
Test system: Chinese hamster ovary cells
Result: negative

Genotoxicity in vivo : Test Type: Rodent Dominant Lethal Assay
Species: Mouse (male)
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 478
Result: negative

ethylbenzene:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Method: OECD Test Guideline 474
Result: negative

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 (vapour)
Result: negative

toluene:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro
Species: Rat
Result: negative

Carcinogenicity

Not classified based on available information.

Product:

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

Components:

malathion (ISO) [containing ≤ 0,03 % isomalathion]:

Species	: Rat
Application Route	: Ingestion
Exposure time	: 24 month(s)
NOAEL	: 6.000 ppm
Result	: positive

Remarks : Probably carcinogenic to humans (IARC 2A)

Carcinogenicity - Assessment : Possible human carcinogen

xylene:

Species	: Rat
Application Route	: Oral
Exposure time	: 103 weeks
Result	: negative

ethylbenzene:

Species	: Mouse, male and female
Application Route	: Inhalation
Exposure time	: 104 weeks
Result	: positive

Solvent naphtha (petroleum), heavy arom.:

Species	: Rat, male and female
Application Route	: inhalation (vapour)
Exposure time	: 12 month(s)
NOAEC	: 1,8 mg/l
Result	: negative
Remarks	: Based on data from similar materials

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity

Not classified based on available information.

Product:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

Components:

malathion (ISO) [containing $\leq 0,03$ % isomalathion]:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
General Toxicity F1: NOAEL: 132 - 152 mg/kg bw/day
Symptoms: Reduced offspring weight gain

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
General Toxicity Maternal: NOAEL: 400 mg/kg bw/day
Teratogenicity: NOAEL: 800 mg/kg bw/day
Result: No teratogenic effects

Test Type: Embryo-foetal development
Species: Rabbit
General Toxicity Maternal: NOAEL: 25 mg/kg bw/day
Teratogenicity: NOAEL: 25 mg/kg bw/day
Result: No teratogenic effects

Reproductive toxicity - Assessment : Animal testing showed no reproductive toxicity.

xylene:

Effects on fertility : Test Type: Two-generation study
Species: Rat
Application Route: inhalation (vapour)
General Toxicity F1: NOAEC: 2,171 mg/l
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Pre-natal
Species: Rat
Application Route: inhalation (vapour)
Symptoms: Maternal effects
Result: negative
Remarks: Based on data from similar materials

ethylbenzene:

Effects on fertility : Species: Rat, male and female
Application Route: Inhalation
Method: OECD Test Guideline 415
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat, female
Application Route: Inhalation
Method: OECD Test Guideline 414
Result: negative

toluene:

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

Effects on foetal development	:	Species: Rat Application Route: Inhalation Result: Teratogenic effects Remarks: Adverse developmental effects were observed
Reproductive toxicity - Assessment	:	Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

STOT - single exposure

Not classified based on available information.

Product:

Assessment	:	The substance or mixture is not classified as specific target organ toxicant, single exposure.
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Components:

xylene:

Assessment	:	May cause respiratory irritation.
------------	---	-----------------------------------

toluene:

Assessment	:	May cause drowsiness or dizziness.
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STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

xylene:

Exposure routes	:	Inhalation
Target Organs	:	hearing organs
Assessment	:	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

ethylbenzene:

Exposure routes	:	Inhalation
Target Organs	:	hearing organs
Assessment	:	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

toluene:

Exposure routes	:	Inhalation
Target Organs	:	inner ear
Assessment	:	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

Repeated dose toxicity

Components:

malathion (ISO) [containing $\leq 0,03$ % isomalathion]:

Species	: Rat
LOAEL	: 34,4 mg/kg
Application Route	: Oral - feed
Exposure time	: 90 d
Target Organs	: Nervous system
Symptoms	: cholinesterase inhibition

xylene:

Species	: Rat
NOAEC	: 3,515 mg/l
Application Route	: Inhalation
Exposure time	: 13 weeks

ethylbenzene:

Species	: Rat, male and female
NOAEL	: 75 mg/kg
Application Route	: Oral
Exposure time	: 28 days
Method	: OECD Test Guideline 407

Species	: Rat, male and female
NOAEL	: 250 ppm
LOAEL	: 75 ppm
Application Route	: inhalation (vapour)
Exposure time	: 728 days
Method	: OECD Test Guideline 453

Solvent naphtha (petroleum), heavy arom.:

Species	: Rat, male and female
NOAEC	: 0,9 - 1,8 mg/l
Application Route	: inhalation (vapour)
Exposure time	: 12 months

toluene:

Species	: Rat
NOAEL	: 625 mg/kg
Application Route	: Oral
Symptoms	: central nervous system effects

Species	: Rat
NOAEL	: 0,098 mg/l
Application Route	: Inhalation
Test atmosphere	: vapour

Species	: Rat
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SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

LOAEL	:	2,261 mg/l
Application Route	:	Inhalation
Test atmosphere	:	vapour

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.

Components:

malathion (ISO) [containing $\leq 0,03$ % isomalathion]:

The substance does not have properties associated with aspiration hazard potential.

xylene:

May be fatal if swallowed and enters airways.

ethylbenzene:

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.

Solvent naphtha (petroleum), heavy arom.:

May be fatal if swallowed and enters airways.

toluene:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
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Experience with human exposure

Components:

xylene:

General Information	:	Target Organs: inner ear Symptoms: hearing loss
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SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version 1.0	Revision Date: 01.06.2022	SDS Number: 50000605	Date of last issue: - Date of first issue: 01.06.2022
----------------	------------------------------	-------------------------	--

Target Organs: Central nervous system
Symptoms: Drowsiness, Dizziness

ethylbenzene:

General Information : Target Organs: inner ear
Symptoms: hearing loss

Solvent naphtha (petroleum), heavy arom.:

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

Neurological effects

Components:

malathion (ISO) [containing $\leq 0,03$ % isomalathion]:

Remarks : No neurotoxicity observed in animal studies

Further information

Product:

Remarks : Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Components:

malathion (ISO) [containing $\leq 0,03$ % isomalathion]:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,18 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.72 µg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : IC50 (Selenastrum capricornutum (green algae)): 4,06 mg/l
plants Exposure time: 72 h

M-Factor (Acute aquatic tox- : 1.000
icity)

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

Toxicity to fish (Chronic toxicity) : NOEC: 0,021 mg/l
Exposure time: 37 d
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,006 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 1.000

Toxicity to soil dwelling organisms : 613 mg/kg
Exposure time: 14 d
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : LC50: 3.497 mg/kg
Exposure time: 5 d
Species: Colinus virginianus (Bobwhite quail)

LD50: 1.485 mg/kg
Species: Anas platyrhynchos (Mallard duck)

LD50: 0.38 µg/bee
Species: Apis mellifera (bees)

xylene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,6 mg/l
Exposure time: 96 h
Test Type: Static renewal test
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 2,2 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,44 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to microorganisms : NOEC (activated sludge): 16 mg/l
Exposure time: 28 h
Method: OECD Test Guideline 301F

Toxicity to fish (Chronic toxicity) : NOEC: > 1,3 mg/l
Exposure time: 56 d

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,96 mg/l
Exposure time: 7 d
Species: Ceriodaphnia dubia (water flea)
Remarks: Based on data from similar materials

Toxicity to soil dwelling organisms : NOEC: 16 mg/kg
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Remarks: Based on data from similar materials

ethylbenzene:

Toxicity to fish : LC50 (Menidia menidia (Atlantic silverside)): 5,1 mg/l
Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 4,2 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,8 mg/l
Exposure time: 48 h

EC50 (Ceriodaphnia dubia (water flea)): 3,2 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): 3,6 mg/l
Exposure time: 96 h

EC50 (Skeletonema costatum (marine diatom)): 7,7 mg/l
Exposure time: 96 h

Toxicity to microorganisms : Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 0,25 - 3,4 mg/l
Species: Fish
Method: QSAR

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,96 mg/l
Exposure time: 7 d
Species: Ceriodaphnia dubia (water flea)

Toxicity to soil dwelling organisms : 0,047 mg/cm²
Exposure time: 48 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207

Solvent naphtha (petroleum), heavy arom.:

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

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version 1.0	Revision Date: 01.06.2022	SDS Number: 50000605	Date of last issue: - Date of first issue: 01.06.2022
----------------	------------------------------	-------------------------	--

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 1,4 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

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 microorganisms : LL50 (Tetrahymena pyriformis): 677,9 mg/l
Exposure time: 72 h
Test Type: Growth inhibition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EL50: 0,89 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

calcium bis(dodecylbenzenesulphonate), branched:

Toxicity to fish : LC50 (Fish): > 1 - 10 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)): > 1 - 10 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (algae): > 1 - 10 mg/l
Exposure time: 72 h
Remarks: Based on data from similar materials

toluene:

Toxicity to fish : LC50 (Fish): 5,5 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 : 3,78 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : NOEC (Skeletonema costatum (marine diatom)): 10 mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Bacteria): 134 mg/l
Exposure time: 3 h

Toxicity to fish (Chronic toxicity) : NOEC: 1,4 mg/l
Species: Oncorhynchus kisutch (coho salmon)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,74 mg/l
Exposure time: 7 d
Species: Ceriodaphnia sp.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

12.2 Persistence and degradability

Components:

malathion (ISO) [containing $\leq 0,03$ % isomalathion]:

Biodegradability : Result: Not readily biodegradable.

xylene:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge, non-adapted
Concentration: 16 mg/l
Result: Readily biodegradable.
Biodegradation: 98 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

Test Type: aerobic
Inoculum: activated sludge, non-adapted
Concentration: 16 mg/l
Result: Readily biodegradable.
Biodegradation: 94 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

Test Type: aerobic
Inoculum: activated sludge, non-adapted
Concentration: 16,2 mg/l
Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

ethylbenzene:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 79 %
Exposure time: 10 d

Solvent naphtha (petroleum), heavy arom.:

Biodegradability : Result: Inherently biodegradable.
Biodegradation: 58,6 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

calcium bis(dodecylbenzenesulphonate), branched:

Biodegradability : Result: Readily biodegradable.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version 1.0	Revision Date: 01.06.2022	SDS Number: 50000605	Date of last issue: - Date of first issue: 01.06.2022
----------------	------------------------------	-------------------------	--

toluene:

Biodegradability : Result: Readily biodegradable.

12.3 Bioaccumulative potential

Components:

malathion (ISO) [containing $\leq 0,03$ % isomalathion]:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 95
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 2,75

xylene:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Exposure time: 7 d
Concentration: 1,3 mg/l
Bioconcentration factor (BCF): $> 4,9$
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 3,2 (20 °C)
pH: 7
Remarks: Based on data from similar materials

log Pow: 3,12 (20 °C)
pH: 7
Remarks: Based on data from similar materials

log Pow: 3,15 (20 °C)
pH: 7
Remarks: Based on data from similar materials

log Pow: 3,15 (20 °C)
pH: 7
Remarks: Based on data from similar materials

ethylbenzene:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 110

Partition coefficient: n-octanol/water : Pow: 4.170 (20 °C)
log Pow: 3,03 - 3,6 (20 °C)
pH: 7,84

Solvent naphtha (petroleum), heavy arom.:

Partition coefficient: n-octanol/water : log Pow: 3,72
Method: QSAR

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

calcium bis(dodecylbenzenesulphonate), branched:

Bioaccumulation : Bioconcentration factor (BCF): 1
Remarks: Bioaccumulation is unlikely.

toluene:

Bioaccumulation : Bioconcentration factor (BCF): 90

Partition coefficient: n-octanol/water : log Pow: 2,73 (20 °C)

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

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

13.1 Waste treatment methods

Product : 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.

Waste, residues, etc. must be collected, stored and disposed

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

of in tightly closed container labeled: "Contains a substance
that is covered by the Danish health and safety regulation in
terms of cancer risk."

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

14.1 UN number or ID number

ADN	: UN 1993
ADR	: UN 1993
RID	: UN 1993
IMDG	: UN 1993
IATA	: UN 1993

14.2 UN proper shipping name

ADN	: FLAMMABLE LIQUID, N.O.S. (Xylene, Malathion)
ADR	: FLAMMABLE LIQUID, N.O.S. (Xylene, Malathion)
RID	: FLAMMABLE LIQUID, N.O.S. (Xylene, Malathion)
IMDG	: FLAMMABLE LIQUID, N.O.S. (Xylene, Malathion)
IATA	: Flammable liquid, n.o.s. (Xylene, Malathion)

14.3 Transport hazard class(es)

ADN	: 3
ADR	: 3
RID	: 3
IMDG	: 3
IATA	: 3

14.4 Packing group

ADN	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

ADR

Packing group	:	III
Classification Code	:	F1
Hazard Identification Number	:	30
Labels	:	3
Tunnel restriction code	:	(D/E)

RID

Packing group	:	III
Classification Code	:	F1
Hazard Identification Number	:	30
Labels	:	3

IMDG

Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E

IATA (Cargo)

Packing instruction (cargo aircraft)	:	366
Packing instruction (LQ)	:	Y344
Packing group	:	III
Labels	:	Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft)	:	355
Packing instruction (LQ)	:	Y344
Packing group	:	III
Labels	:	Flammable Liquids

14.5 Environmental hazards

ADN

Environmentally hazardous	:	yes
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ADR

Environmentally hazardous	:	yes
---------------------------	---	-----

RID

Environmentally hazardous	:	yes
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IMDG

Marine pollutant	:	yes
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IATA (Passenger)

Environmentally hazardous	:	yes
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IATA (Cargo)

Environmentally hazardous	:	yes
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14.6 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.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 3

toluene (Number on list 48)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : malathion (ISO) [containing ≤ 0,03 % isomalathion]

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

E1 ENVIRONMENTAL HAZARDS

Other regulations:

When evaluating a workplace, measures must be taken to ensure that employees are not exposed to conditions that may pose a risk during pregnancy or breastfeeding (cf. The Danish Working Environment Authority's Executive Order on The Performance of Work)

Young people under the age of 18 are not allowed to use or be exposed to the product professionally. Young people above the age of 15 are, however, except from this rule if the product is a necessary part of their education.

The substance/mixture is subject to the provisions of BEK nr. 1795 of 18/12/2015 (as amended) "Executive order on Measures to Protect Workers from the Risks related to Exposure to Carcinogenic Substances and : Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified ethylbenzene
malathion (ISO) [containing ≤ 0,03

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

Materials at Work". The work with this substance/mixture % isomalathion]
may pose a cancer risk.

The components 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.
AIIC	: Not in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
ENCS	: On the inventory, or in compliance with the inventory
ISHL	: On the inventory, or 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

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

Chemical Safety Assessments (CSA) under REACH are carried out at the substance level when the substance is registered thru ECHA. It includes exposure scenarios for all the identified uses of the substance. Chemical Safety Assessments are not performed on mixtures.

SECTION 16: Other information

Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H312	: Harmful in contact with skin.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H350	: May cause cancer.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

H361d	: Suspected of damaging the unborn child.
H373	: May cause damage to organs through prolonged or repeated exposure.
H373	: May cause damage to organs through prolonged or repeated exposure if inhaled.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.
EUH066	: Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Repr.	: Reproductive toxicity
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2006/15/EC	: Europe. Indicative occupational exposure limit values
DK OEL	: Denmark. Occupational Exposure Limits
2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short term exposure limit
2006/15/EC / TWA	: Limit Value - eight hours
2006/15/EC / STEL	: Short term exposure limit
DK OEL / GV	: Long term exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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 - Interna-

SAFETY DATA SHEET

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Regulation (EC) No 1907/2006



FYFANON 500 g/L EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2022	50000605	Date of first issue: 01.06.2022

tional Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Based on product data or assessment
Based on product data or assessment
Based on product data or assessment

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