

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 30.01.2023

Version number 2

Revision: 30.01.2023

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

1.1 Product identifier**Trade name:** FITOFOP**Formulation:** Emulsifiable concentrate - EC**Active ingredient:** Quizalofop-P-ethyl**Chemical family:** Aryloxyphenoxypropionate**CAS Number:** Quizalofop-P-ethyl: 100646-51-3**UFI:** J2WE-JK78-P30N-V70J**1.2 Relevant identified uses of the substance or mixture and uses advised against****Sector of Use** SU1 Agriculture, forestry, fishery**Product category** PC27 Plant protection products**Application of the substance / the mixture** Herbicides**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Galenika-Fitofarmacija AD

Batajnicki drum bb

11080 Belgrade

tel: + 381 (11) 3072-301

fax: + 381 (11) 3072 310

e-mail: office@fitofarmacija.rs

1.4 Emergency telephone number:

Poison Control Center Military Medical Academy

Crnotravska 17, Belgrade, Serbia

tel: + 381 (11) 3608-440, 00-24h

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture**Classification according to Regulation (EC) No 1272/2008**

Acute Tox. 4 H332 Harmful if inhaled.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS05

GHS07

GHS08

GHS09

Signal word Danger**Hazard-determining components of labelling:**

alcohols, C12-16, ethoxylated

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Solvent naphtha (petroleum), heavy aromatic

Quizalofop-p-ethyl

Hazard statements

H332 Harmful if inhaled.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P391 Collect spillage.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

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

Standard phrases for safety precautions

SP 1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

Safety precautions for operators (SPo): SPo 2 Wash all protective clothing after use.**Safety precautions related to the environment (SPe):**

SPe 3: To protect aquatic organisms respect an unsprayed buffer zone of 15 m to surface water bodies.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substance Not applicable.

3.2 Mixtures

Dangerous components:

EC number: 918-811-1	Hydrocarbons, C10, aromatics, <1% naphthalene Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	25-50%
EC number: 922-153-0	Hydrocarbons, C10-C13, aromatics, <1% naphthalene Asp. Tox. 1, H304; Aquatic Chronic 2, H411, EUH066	10-25%
CAS: 68551-12-2	alcohols, C12-16, ethoxylated Eye Dam. 1, H318; Acute Tox. 4, H302; Aquatic Chronic 3, H412	10-25%

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EC number: 932-231-6	Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	< 10%
CAS: 100646-51-3	Quizalofop-p-ethyl Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Acute Tox. 4, H302	5.2%
CAS: 104-76-7 EINECS: 203-234-3	2-Ethyl-1-hexanol Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	< 5%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

There is no specific antidote available. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NO_x)

Carbon oxides

Hydrogen chloride (HCl)

5.3 Advice for firefighters Wear full protective clothing and self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Avoid contact with the skin and eyes.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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6.4 Reference to other sections

See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
 Avoid inhalation and contact with skin and eyes. Wear protective clothing and protective equipment for eyes and face. Do not eat, drink or smoke. After handling wash hands and face with soap and water. Wash contaminated clothing.

Information about fire - and explosion protection:

In case of fire do not breathe fumes.

Use personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities**Storage:**

Keep in a cool, dry place in tightly closed original containers. Keep away from foodstuffs, beverages and feed. Keep away from children.

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: None.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 104-76-7 2-Ethyl-1-hexanol

IOELV Long-term value: 5.4 mg/m³, 1 ppm

8.2 Exposure controls

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection

Protective gloves

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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Eye/face protection

Tightly sealed goggles

Body protection:**Protective suit** Use chemical resistant protective suit.**Environmental exposure controls** Do not allow to get into the environment.

* **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties**General Information**

Physical state	Liquid
Colour:	Yellow
Odour:	No data.
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined.
Boiling point or initial boiling point and boiling range	Not determined.
Flammability	Not applicable.
Lower and upper explosion limit	Not determined.
Flash point:	>60 °C
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
pH	4.4-5.4
Viscosity at 20 °C:	1.94 mPa.s
Solubility	Miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C:	0.95-0.97 g/cm ³
Vapour density	Not applicable.

9.2 Other information**Explosive properties:** Product does not present an explosion hazard.**Crystallisation temperature / range:****Oxidising properties** Not oxidising.**Evaporation rate** Not applicable.**9.2.1. Information with regard to physical hazard classes****Explosives** Not applicable.**Flammable gases** Not applicable.**Aerosols** Not applicable.**Oxidising gases** Not applicable.**Gases under pressure** Not applicable.**Flammable liquids** Not applicable.**Flammable solids** Not applicable.**Self-reactive substances and mixtures** Not applicable.**Pyrophoric liquids** Not applicable.**Pyrophoric solids** Not applicable.

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Self-heating substances and mixtures	Not applicable.
Substances and mixtures, which emit flammable gases in contact with water	Not applicable.
Oxidising liquids	Not applicable.
Oxidising solids	Not applicable.
Organic peroxides	Not applicable.
Corrosive to metals	Not applicable.
Desensitised explosives	Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data.

No further relevant information available.

10.2 Chemical stability Stable under normal handling and storage conditions.**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid** Source of ignition, heat, fire, high humidity, sparks.**10.5 Incompatible materials:** Strong acids and alkalis, strong oxidising agents**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

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

Harmful if inhaled.

LD/LC50 values relevant for classification:**CAS: 100646-51-3 Quizalofop-p-ethyl**

Oral	LD50	1012 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)
Inhalative	LC50/4 h	>3.9 mg/l (Rat)

Skin corrosion/irritation: Based on available data, the classification criteria are not met.**Serious eye damage/eye irritation:**

Causes serious eye damage.

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure**

May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

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11.2 Information on other hazards**Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity**Aquatic toxicity:****CAS: 100646-51-3 Quizalofop-p-ethyl**

	EC50/48 h	0.29 mg/l (Daphnia magna)
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Inhalative	LC50/96 h	0.21 mg/l (Fish)
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12.2 Persistence and degradability Quizalofop-p-ethyl is non-persistent in soil.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** Quizalofop-p-ethyl is slightly mobile.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.**12.7 Other adverse effects****Remark:****Toxicity to honey bees:****CAS: 100646-51-3 Quizalofop-p-ethyl**

Oral	LD50	> 100 (Apis mellifera)
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Dermal	LD50	> 100 (Apis mellifera)
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Additional ecological information:**General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

SECTION 13: Disposal considerations

13.1 Waste treatment methods**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:**Recommendation:** Disposal must be made according to national official regulations.

SECTION 14: Transport information

14.1 UN number or ID number**ADR/RID/ADN, IMDG, IATA**

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14.2 UN proper shipping name
ADR/RID/ADN, IMDG, IATA

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Solvent naphtha (petroleum), heavy arom.,
Quizalofop-p-ethyl)

14.3 Transport hazard class(es)
ADR/RID/ADN, IMDG, IATA



Class
Label

9 Miscellaneous dangerous substances and articles.
9

14.4 Packing group
ADR/RID/ADN, IMDG, IATA

III

14.5 Environmental hazards:

Product contains environmentally hazardous substances:
Quizalofop-p-ethyl, Solvent naphtha (petroleum), heavy arom.
Symbol (fish and tree)
Symbol (fish and tree)
Symbol (fish and tree)

Marine pollutant:

Special marking (ADR/RID/ADN):

Special marking (IATA):

14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

Hazard identification number (Kemler code):

90

EMS Number:

F-A,S-F

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:

ADR/RID/ADN

Remarks:

Exempted from ADR+LQ (UN3077+ 3082 Class 9) according to extra provision ADR SV375 as of 01.01.15. "375. These substances when carried in single or combination packaging containing net quantity per single or inner packaging of 5 lit or less for liquids having a net mass per single or inner packaging of 5KG or less for solids, are not subject to any other provisions."

UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (SOLVENT NAPHTHA (PETROLEUM),
HEAVY AROM., QUIZALOFOP-P-ETHYL), 9, III

SECTION 15: Regulatory information

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

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

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15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Hazard phrases:

- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- 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.
- 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.

Date of previous version: 20.01.2023**Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Skin Sens. 1: Skin sensitisation – Category 1
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- Asp. Tox. 1: Aspiration hazard – Category 1
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3