acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 µg/ml in acetonitrile

article number: 0935 Version: 2.0 en Revision: 2022-05-18

Replaces version of: 2017-08-24

Version: (1)



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

Product identifier 1.1

Identification of the substance **Fipronil standard solution** 100 μg/ml in acetoni-

0935 Article number

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

Relevant identified uses: Laboratory and analytical use

Laboratory chemical

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes

(household).

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment

sheet:

sicherheit@carlroth.de e-mail (competent person):

1.4 **Emergency telephone number**

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	2	Flam. Liq. 2	H225
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
3.1D	Acute toxicity (dermal)	4	Acute Tox. 4	H312
3.1I	Acute toxicity (inhal.)	4	Acute Tox. 4	H332
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319

United Kingdom (en) Page 1 / 21

acc. to Regulation (EC) No. 1907/2006 (REACH)



Fipronil standard solution 100 µg/ml in acetonitrile

article number: 0935

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
4.1C	Hazardous to the aquatic environment - chronic hazard	1	Aquatic Chronic 1	H410

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling

Signal word Danger

Pictograms

GHS02, GHS07, GHS09







Hazard statements

H225 Highly flammable liquid and vapour

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled

H319 Causes serious eye irritation

H410 Very toxic to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking

P280 Wear protective gloves/eye protection

Precautionary statements - response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

Precautionary statements - storage

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

Hazardous ingredients for labelling: Acetonitrile

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

United Kingdom (en) Page 2 / 21

acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 µg/ml in acetonitrile

article number: 0935



SECTION 3: Composition/information on ingredients

3.1 **Substances**

not relevant (mixture)

3.2 **Mixtures**

Description of the mixture

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Acetonitrile	CAS No 75-05-8 EC No 200-835-2	99,99	Flam. Liq. 2 / H225 Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Eye Irrit. 2 / H319		GHS-HC IOELV
Fipronil	CAS No 120068-37-3 EC No 424-610-5	0,01	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 STOT RE 1 / H372 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	*	GHS-HC

Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/

2008/EC, Annex VI)
IOELV: Substance with a community indicative occupational exposure limit value

Name of sub- stance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
Acetonitrile	CAS No 75-05-8 EC No 200-835-2	-	-	469 ^{mg} / _{kg} 1.100 ^{mg} / _{kg} 11 ^{mg} / _I /4h	oral dermal inhalation: va- pour
Fipronil	CAS No 120068-37-3 EC No 424-610-5	-	M-factor (acute) = 1.000 M-factor (chronic) = 10.000	97 ^{mg} / _{kg} 354 ^{mg/} _{kg} 0,68 ^{mg} / _l /4h	oral dermal inhalation: dust/ mist

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 **Description of first aid measures**



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

United Kingdom (en) Page 3 / 21

acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 μg/ml in acetonitrile

article number: 0935



Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

Following ingestion

Rinse mouth with water (only if the person is conscious). Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

After eye contact: Irritant effects, Conjunctival redness of the eyes, Following skin contact: Localised redness, oedema, pruritis and/or pain, Following ingestion: Vomiting, Irritation, Headaches and dizziness may occur, Following inhalation: Cough, pain, choking, and breathing difficulties

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO₂), May produce toxic fumes of carbon monoxide if burning.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



United Kingdom (en) Page 4 / 21

acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 μg/ml in acetonitrile

article number: 0935



For non-emergency personnel

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Do not breathe vapour/spray. Avoidance of ignition sources.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. Danger of explosion.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation.

Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge. Due to danger of explosion, prevent leakage

of vapours into cellars, flues and ditches.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool place.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Ground/bond container and receiving equipment.

United Kingdom (en) Page 5 / 21

acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 μg/ml in acetonitrile

article number: 0935



Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 2 - 8 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
EU	acetonitrile	75-05-8	IOELV	40	70					Η	2006/15/ EC
GB	acetonitrile	75-05-8	WEL	40	68	60	102				EH40/ 2005

Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

Absorbed through the skin

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-STEL

TWA

minute period (unless otherwise specified)
Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
Acetonitrile	75-05-8	DNEL	68 mg/m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Acetonitrile	75-05-8	DNEL	68 mg/m³	human, inhalat- ory	worker (industry)	acute - systemic effects
Acetonitrile	75-05-8	DNEL	68 mg/m³	human, inhalat- ory	worker (industry)	chronic - local ef- fects
Acetonitrile	75-05-8	DNEL	68 mg/m³	human, inhalat- ory	worker (industry)	acute - local ef- fects
Acetonitrile	75-05-8	DNEL	32,2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

United Kingdom (en) Page 6 / 21

acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 μg/ml in acetonitrile

article number: 0935



short-term (single

instance)

short-term (single

instance)

Relevant PNECs of components of the mixture Name of sub-**CAS No** End-**Threshol Organism Environmental Exposure time** d level stance point compartment 10 mg/1 Acetonitrile 75-05-8 **PNEC** aquatic organfreshwater short-term (single isms instance) 1 ^{mg}/_I Acetonitrile 75-05-8 **PNEC** aquatic organmarine water short-term (single isms instance) 32 mg/1 Acetonitrile 75-05-8 **PNEC** sewage treatment short-term (single aquatic organplant (STP) instance) isms Acetonitrile 75-05-8 **PNEC** $40,5 \, ^{mg}/_{kg}$ aquatic organfreshwater sedishort-term (single isms ment instance)

aquatic organ-

isms

terrestrial organisms marine sediment

soil

4,05 ^{mg}/_{kg}

2,23 mg/kg

8.2 Exposure controls

Individual protection measures (personal protective equipment)

PNEC

PNEC

Eye/face protection

Acetonitrile

Acetonitrile





Use safety goggle with side protection.

75-05-8

75-05-8

Skin protection





hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

type of material

Butyl caoutchouc (butyl rubber)

material thickness

0,5 mm

breakthrough times of the glove material

>480 minutes (permeation: level 6)

United Kingdom (en) Page 7 / 21

acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 µg/ml in acetonitrile

article number: 0935



Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Flame-retardant protective clothing.

Respiratory protection





Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties 9.1

Physical state liquid

Colour colourless

Odour characteristic

-46 °C Melting point/freezing point 81 °C

Boiling point or initial boiling point and boiling

range

Flammability

flammable liquid in accordance with GHS criteria

Lower and upper explosion limit 50 g/m3 (LEL) - 274 g/m3 (UEL) /

4,4 vol% (LEL) - 16 vol% (UEL)

Flash point

524 °C (auto-ignition temperature (liquids and Auto-ignition temperature

gases))

Decomposition temperature not relevant

pH (value) not determined

0,4986 mm²/_s at 20 °C Kinematic viscosity

0,39 mPa s at 20 °C Dynamic viscosity

Solubility(ies)

not determined Water solubility

Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

97 hPa at 20 °C Vapour pressure

United Kingdom (en) Page 8 / 21



acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 µg/ml in acetonitrile

article number: 0935

Density and/or relative density

Density 0,7822 g/_{cm³} at 20 °C

Relative vapour density information on this property is not available

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

Other safety characteristics: There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition. Vapours may form explosive mixtures with air.

There is no additional information.

If heated

Risk of ignition.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Peroxides, Strong acid

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

Rubber articles

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

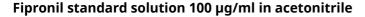
Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

United Kingdom (en) Page 9 / 21



sity

acc. to Regulation (EC) No. 1907/2006 (REACH)



article number: 0935



Acute toxicity										
Exposure route	Endpoint	Value	Species	Method	Source					
dermal	LD50	1.263 ^{mg} / _{kg}	rabbit							
inhalation: vapour	LC50	11,1 ^{mg} / _l /4h	not specified							

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Acetonitrile	75-05-8	oral	469 ^{mg} / _{kg}
Acetonitrile	75-05-8	dermal	1.100 ^{mg} / _{kg}
Acetonitrile	75-05-8 inhalation: vapour		11 ^{mg} / _l /4h
Fipronil	120068-37-3	oral	97 ^{mg} / _{kg}
Fipronil	120068-37-3	dermal	354 ^{mg} / _{kg}
Fipronil	120068-37-3	inhalation: dust/mist	0,68 ^{mg} / _l /4h

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Acetonitrile	75-05-8	oral	LD50	469 ^{mg} / _{kg}	mouse
Acetonitrile	75-05-8	dermal	LD50	>2.000 ^{mg} / _{kg}	rabbit
Fipronil	120068-37-3	oral	LD50	97 ^{mg} / _{kg}	rat
Fipronil	120068-37-3	inhalation: dust/mist	LC50	680 ^{mg} / _{m³} /4h	rat
Fipronil	120068-37-3	dermal	LD50	354 ^{mg} / _{kg}	rabbit

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

United Kingdom (en) Page 10 / 21

acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 μg/ml in acetonitrile

article number: 0935



Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

vomiting, nausea, dizziness

• If in eyes

Causes serious eye irritation

• If inhaled

cough, pain, choking, and breathing difficulties

• If on skin

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc

Other information

none

11.2 Endocrine disrupting properties

None of the ingredients are listed.

11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture										
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time					
Acetonitrile	75-05-8	LC50	1.640 ^{mg} / _l	fish	96 h					
Acetonitrile	75-05-8	ErC50	9.696 ^{mg} / _l	algae	72 h					
Fipronil	120068-37-3	EC50	0,19 ^{mg} / _l	daphnia magna	48 h					
Fipronil	120068-37-3	EC50	0,07 ^{mg} / _l	Grünalge	48 h					
Fipronil	120068-37-3	LC50	0,25 ^{mg} / _l	rainbow trout (Onco- rhynchus mykiss)	96 h					

Aquatic toxicity (chronic) of components of the mixture										
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time					
Acetonitrile	75-05-8	EC50	>1.000 ^{mg} / _l	microorganisms	30 min					
Fipronil	120068-37-3	EC50	>0,28 ^{mg} / _l	aquatic invertebrates	24 h					

United Kingdom (en) Page 11 / 21

acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 µg/ml in acetonitrile

article number: 0935



12.2 Process of degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Acetonitrile	75-05-8	biotic/abiotic	98 %	28 d		
Acetonitrile	75-05-8	carbon dioxide generation	70 %	21 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Acetonitrile	75-05-8		-0,34 (pH value: ~7, 25 °C)	
Fipronil	120068-37-3	0	4 (20 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

United Kingdom (en) Page 12 / 21



Biodegradation

Data are not available.

acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 µg/ml in acetonitrile

article number: 0935



Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1 **UN number or ID number**

ADRRID UN 1993 **IMDG-Code** UN 1993 ICAO-TI UN 1993

14.2 UN proper shipping name

ADRRID FLAMMABLE LIQUID, N.O.S. **IMDG-Code** FLAMMABLE LIQUID, N.O.S. **ICAO-TI** Flammable liquid, n.o.s. Acetonitrile, Fipronil Technical name (hazardous ingredients)

14.3 Transport hazard class(es)

3 **ADRRID IMDG-Code** 3 **ICAO-TI** 3

14.4 Packing group

ADRRID II **IMDG-Code** II ICAO-TI Π

14.5 Environmental hazards hazardous to the aquatic environment

Environmentally hazardous substance (aquatic **Fipronil** environment):

Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations 14.8

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Proper shipping name FLAMMABLE LIQUID, N.O.S.

UN1993, FLAMMABLE LIQUID, N.O.S., (contains: Acetonitrile, Fipronil), 3, II, (D/E), environmentally Particulars in the transport document

hazardous, special provision 640D

Classification code F1

Danger label(s) 3, "Fish and tree"

United Kingdom (en) Page 13 / 21



13.3 Remarks

acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 μg/ml in acetonitrile

article number: 0935





Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP) 274, 601, 640D

Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L
Transport category (TC) 2
Tunnel restriction code (TRC) D/E
Hazard identification No 33
Emergency Action Code 3YE

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional

information

Classification code F1

Danger label(s) 3

Fish and tree



Environmental hazards Yes

Hazardous to water

Special provisions (SP) 274, 601, 640D

Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L
Transport category (TC) 2
Hazard identification No 33

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name FLAMMABLE LIQUID, N.O.S.

Particulars in the shipper's declaration UN1993, FLAMMABLE LIQUID, N.O.S., (contains:

Acetonitrile, Fipronil), 3, II, 5°C c.c., MARINE POL-

LUTANT

Marine pollutant yes (hazardous to the aquatic environment), (Fipronil)

Danger label(s) 3, "Fish and tree"





Special provisions (SP) 274

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

EmS F-E, S-E

Stowage category B

United Kingdom (en) Page 14 / 21



acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 µg/ml in acetonitrile

article number: 0935



International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Flammable liquid, n.o.s.

Particulars in the shipper's declaration UN1993, Flammable liquid, n.o.s., (contains: Acet-

onitrile, Fipronil), 3, II

Environmental hazards yes (hazardous to the aquatic environment)

Danger label(s) 3



Special provisions (SP) A3
Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Seveso Directive

2012/	2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes		
E1	environmental hazards (hazardous to the aquatic environment, cat. 1)	100 200	56)		

Notation

Deco-Paint Directive

VOC content 99,99 % 782,1 ⁹ / _I

Industrial Emissions Directive (IED)

VOC content	99,99 %
VOC content	782,1 ^g / _l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

United Kingdom (en) Page 15 / 21

⁵⁶⁾ Hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 μg/ml in acetonitrile

article number: 0935



Water Framework Directive (WFD)

List of pollutants (WFD)

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Fipronil	Organohalogen compounds and substances which may form such compounds in the aquatic envir- onment		a)	
Fipronil	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrinerelated functions in or via the aquatic environment		a)	

Legend

Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

Regulation concerning the export and import of hazardous chemicals (PIC)

chemicals subject to the international prior informed consent (PIC) procedure (the 'PIC procedure').

Name of substance	Name acc. to inventory	CAS No	Category / subcategory	Use limita- tion
Fipronil	fipronil	120068- 37-3	p(1)	b
Fipronil	fipronil	120068- 37-3	р	sr

Legend

Use limitation: ban (for the sub-category or sub-categories concerned) according to Union legislation

Category: p - pesticides
Sub-category: p(1) - pesticide in the group of plant protection products
Use limitation: severe restriction (for the sub-category or sub-categories concerned) according to Union legislation p(1) sr

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

National regulations(GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list none of the ingredients are listed

Restrictions according to GB REACH, Annex 17

none of the ingredients are listed

United Kingdom (en) Page 16 / 21

acc. to Regulation (EC) No. 1907/2006 (REACH)



Fipronil standard solution 100 μg/ml in acetonitrile

article number: 0935

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name of substance	Name acc. to inventory	CAS No	No
Fipronil standard solution	this product meets the criteria for classi- fication in accordance with Regulation No 1272/2008/EC		3

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status	
AU	AIIC	not all ingredients are listed	
CA	DSL	not all ingredients are listed	
CN	IECSC	not all ingredients are listed	
EU	ECSI	all ingredients are listed	
EU	REACH Reg.	all ingredients are listed	
JP	CSCL-ENCS	not all ingredients are listed	
KR	KECI	all ingredients are listed	
MX	INSQ	all ingredients are listed	
NZ	NZIoC	all ingredients are listed	
PH	PICCS	not all ingredients are listed	
TR	CICR	not all ingredients are listed	
TW	TCSI	all ingredients are listed	
US	TSCA	not all ingredients are listed	

Legend

AIIC Australian Inventory of Industrial Chemicals
CICR Chemical Inventory and Control Regulation
CSCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS)
DSL Domestic Substances List (DSL)
ECSI EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC Inventory of Existing Chemical Substances Produced or Imported in China INSQ National Inventory of Chemical Substances

Korea Existing Chemicals Inventory

NZIOC New Zealand Inventory of Chemicals
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg. REACH registered substances

Taiwan Chemical Substance Inventory

Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

United Kingdom (en) Page 17 / 21

acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 $\mu g/ml$ in acetonitrile

article number: 0935



SECTION 16: Other information

Indication of changes (revised safety data sheet)

Alignment to regulation: Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		Classification acc. to GHS: change in the listing (table)	yes
2.1		The most important adverse physicochemical, human health and environmental effects: The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Hazard statements: change in the listing (table)	yes
2.2		Precautionary statements - response: change in the listing (table)	yes
2.2		Precautionary statements - storage	yes
2.2		Precautionary statements - storage: change in the listing (table)	yes
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Danger		yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2	contains: Acetonitrile		yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)

United Kingdom (en) Page 18 / 21

acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 $\mu g/ml$ in acetonitrile

article number: 0935



Abbr.	Descriptions of used abbreviations	
Aquatic Acute	Hazardous to the aquatic environment - acute hazard	
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BOD	Biochemical Oxygen Demand	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
Ceiling-C	Ceiling value	
COD	Chemical oxygen demand	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
DNEL	Derived No-Effect Level	
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)	
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
EmS	Emergency Schedule	
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control	
Eye Dam.	Seriously damaging to the eye	
Eye Irrit.	Irritant to the eye	
Flam. Liq.	Flammable liquid	
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air	
IMDG	International Maritime Dangerous Goods Code	
IMDG-Code	International Maritime Dangerous Goods Code	
IOELV	Indicative occupational exposure limit value	
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval	
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval	
LEL	Lower explosion limit (LEL)	

United Kingdom (en) Page 19 / 21

acc. to Regulation (EC) No. 1907/2006 (REACH)

Fipronil standard solution 100 μg/ml in acetonitrile

article number: 0935



Abbr.	Descriptions of used abbreviations
log KOW	n-Octanol/water
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

United Kingdom (en) Page 20 / 21

acc. to Regulation (EC) No. 1907/2006 (REACH)



Fipronil standard solution 100 μg/ml in acetonitrile

article number: 0935

Code	Text
H410	Very toxic to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

United Kingdom (en) Page 21 / 21