

**Safety data sheet**  
according to the REACH Regulation (EC) 1907/2006 amended by  
Regulation (EU) 2020/878

Printing date: 30.03.2023

Version number 1

Revision: 30.03.2023

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** TONUS**Formulation:** Emulsifiable concentrate - EC**Active ingredient:** Pyriproxyfen**CAS Number:** Pyriproxyfen: 95737-68-1**UFI:** HPRX-PAV8-F301-8J9R**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**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**

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 3 H336 May cause drowsiness or dizziness.

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 statements**

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

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.

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- P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
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.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P331 Do NOT induce vomiting.  
P391 Collect spillage.  
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 related to the environment (SPe):**

SPe 3 To protect aquatic organisms respect an unsprayed buffer zone of 30 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

<b>Dangerous components:</b>		
EC number: 918-811-1	Hydrocarbons, C10, aromatics, <1% naphthalene Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	80-90%
CAS: 95737-68-1 ELINCS: 429-800-1 Index number: 613-303-00-3	Pyriproxyfen Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10)	10%
CAS: 68953-96-8 EINECS: 273-234-6	Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315	2.5-5%
CAS: 91-20-3 EINECS: 202-049-5 Index number: 601-052-00-2	Naphthalene Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	<1%

**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.

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**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 eyes for several minutes under running water.

**After swallowing:** Do not induce vomiting; call for medical help 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**

No further relevant information available.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

**Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

#### **5.3 Advice for firefighters**

**Protective equipment:**

Wear fully protective suit.

Do not inhale explosion gases or combustion gases.

### **SECTION 6: Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

#### **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.

Do not allow to enter sewers/ surface or ground water.

#### **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.

#### **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**

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.

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

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**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 and dry, in the original packaging.

Keep away from heat or spark.

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

**Further information about storage conditions:** Protect from heat and direct sunlight.

**7.3 Specific end use(s)** Refer to the label.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Appropriate engineering controls** No further data; see item 7.

**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:** Use suitable respiratory protective.

**Hand protection**

Protective gloves

Protective gloves (EN 374).

**Material of gloves** The selection of suitable gloves in accordance to EN 374.

**Eye/face protection**

Tightly sealed goggles

**Body protection:** Use 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**

**Colour:**

Light yellow

**Odour:**

Odourless

**Odour threshold:**

Not determined.

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<b>Melting point/freezing point:</b>	<i>Not determined.</i>
<b>Boiling point or initial boiling point and boiling range</b>	<i>Not determined.</i>
<b>Flammability</b>	<i>Product is not flammable.</i>
<b>Lower and upper explosion limit</b>	<i>Data lacking.</i>
<b>Flash point:</b>	<i>64 °C</i>
<b>Ignition temperature:</b>	<i>Undetermined.</i>
<b>Decomposition temperature:</b>	<i>Not determined.</i>
<b>pH at 20 °C</b>	<i>4-7</i>
<b>Viscosity:</b>	<i>Data lacking.</i>
<b>Solubility</b>	<i>Miscible.</i>
<b>Partition coefficient n-octanol/water (log value)</b>	<i>Not determined.</i>
<b>Vapour pressure:</b>	<i>Not applicable.</i>
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	<i>0.921 g/cm<sup>3</sup></i>
<b>Vapour density</b>	<i>Not applicable.</i>
<b>9.2 Other information</b>	<i>No further relevant information available.</i>
<b>Form:</b>	<i>Emulsifiable concentrate</i>
<b>Explosive properties:</b>	<i>Product does not present an explosion hazard.</i>
<b>Crystallisation temperature / range:</b>	
<b>Oxidising properties</b>	<i>Data lacking.</i>
<b>Evaporation rate</b>	<i>Not applicable.</i>
<b>9.2.1. Information with regard to physical hazard classes</b>	
<b>Explosives</b>	<i>Not applicable.</i>
<b>Flammable gases</b>	<i>Not applicable.</i>
<b>Aerosols</b>	<i>Not applicable.</i>
<b>Oxidising gases</b>	<i>Not applicable.</i>
<b>Gases under pressure</b>	<i>Not applicable.</i>
<b>Flammable liquids</b>	<i>Not applicable.</i>
<b>Flammable solids</b>	<i>Not applicable.</i>
<b>Self-reactive substances and mixtures</b>	<i>Not applicable.</i>
<b>Pyrophoric liquids</b>	<i>Not applicable.</i>
<b>Pyrophoric solids</b>	<i>Not applicable.</i>
<b>Self-heating substances and mixtures</b>	<i>Not applicable.</i>
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	<i>Not applicable.</i>
<b>Oxidising liquids</b>	<i>Not applicable.</i>
<b>Oxidising solids</b>	<i>Not applicable.</i>
<b>Organic peroxides</b>	<i>Not applicable.</i>
<b>Corrosive to metals</b>	<i>Not applicable.</i>
<b>Desensitised explosives</b>	<i>Not applicable.</i>

## SECTION 10: Stability and reactivity

- 10.1 Reactivity** *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.*

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**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* Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****CAS: 95737-68-1 Pyriproxyfen**

Oral LD50 &gt;5,000 mg/kg (Rat)

Dermal LD50 &gt;2,000 mg/kg (Rat)

Inhalative LC50/4 h 1.3 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:** Based on available data, the classification criteria are not met.**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** Based on available data, the classification criteria are not met.**Aspiration hazard**

May be fatal if swallowed and enters airways.

**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: 95737-68-1 Pyriproxyfen**EC50 0.4 mg/l (*Daphnia magna*)EbC50 0.094 mg/l (*Alga*)ErC50 0.15 mg/l (*Alga*)LC50 0.27 mg/l (*Lepomis macrochirus*)**12.2 Persistence and degradability** No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

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**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.**12.7 Other adverse effects****Ecotoxicological effects:**EC<sub>20</sub> 113.8 mg/kg (*Eisenia fetida*)EC<sub>20</sub> 150 mg/kg (*Folosomia candida*)**Remark:****Toxicity to honey bees:****CAS: 95737-68-1 Pyriproxyfen**Oral LD50 (48 h) >100 µg/bee (*Apis mellifera*)Dermal LD50 (48 h) 74 µg/bee (*Apis mellifera*)**Additional ecological information:****General notes:** Do not allow product to reach ground water, water course or sewage system.

### 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**

UN3082

**14.2 UN proper shipping name****ADR/RID/ADN, IMDG, IATA**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Pyriproxyfen)**14.3 Transport hazard class(es)****ADR/RID/ADN, IMDG, IATA****Class**

9 Miscellaneous dangerous substances and articles.

**Label**

9

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

III

**14.5 Environmental hazards:****Marine pollutant:**

Symbol (fish and tree)

**Special marking (ADR/RID/ADN):**

Symbol (fish and tree)

**Special marking (IATA):**

Symbol (fish and tree)

**14.6 Special precautions for user**

Warning: Miscellaneous dangerous substances and articles.

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

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**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. (PYRIPROXYFEN), 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.

**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.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

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.

**Date of previous version:** 23.02.2023

**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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

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*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**Carc. 2: Carcinogenicity – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**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*