

Edition
1.0Date of issue
01.04.2017Date of review
-**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**Trade name: **BIOPOLIN****1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Attractant for bees for use in agriculture and gardening

1.2.2. Uses advised against

None

1.3. Details of the supplier of the safety data sheet

ICB Pharma Tomasz Świątosławski, Paweł Świątosławski Spółka Jawna

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1.4. Emergency telephone number:

112 (emergency number)

+48 32 745 47 00 (at working hours: 8.00 a.m. – 4 p.m.)

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture:****According to the Regulation CLP (1272/2008):**

Product is classified as hazardous:

Skin Sens. 1 H317 May cause an allergic skin reaction

Health hazard: skin sensitizer

Environmental Hazards: product isn't classified as hazardous to environment

Physical/chemical hazards: none

Fire hazard: not flammable

2.2. Label elements**According to the Regulation (WE) 1272/2008****Pictogram****Signal Word: Warning****Hazard statements:**

H317 May cause an allergic skin reaction

Precautionary statements:

P261 Avoid breathing mist/vapours/spray

P272 Contaminated work clothing should not be allowed out of the workplace.



SAFETY DATA SHEET

Prepared according to regulation 2015/830 (EU) amending the regulation (EC) 1907/2006 (REACH)

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P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with national regulation

Hazardous ingredients: citral, 1,2-Benzisothiazolin-3-one

2.3. Other hazards:

The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

The product is a mixture. Content of hazardous compounds (compounds below general and specific concentration thresholds, not identified as PBT/vPvB, not listed as SVHC and not having community TLVs are not mentioned):

Chemical name	CAS No/ EC No	REACH Registration No	Index No	Content	Hazard class and hazard statement
citral*	CAS: 5392-40-5 EC: 226-394-6	01-2119462829- 23-xxxx	605-019-00-3	< 5 % w/w	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens.1, H317
1,2-Benzisothiazolin-3-one	CAS: 2634-33-5 EC: 220-120-9	Not applicable	613-088-00-6	< 0,02 %	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens.1, H317 Aquatic Acute 1, H400

* Substance for which there are Community workplace exposure limits

For the wording of the listed risk phrases and hazard category refer to section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General recommendations:

Remove victim from exposed area, place in lateral position, provide fresh air and heat. Do not give anything by mouth to unconscious person.. If feeling unwell call for medical help. In case of contact with emergency phone number of manufacturer or medical services, get product labelled packaging or this safety data sheet.

First aiders protection:

Do not take any actions which may pose a threat for first-aiders unless fully aware of risks and sufficiently trained.

Skin contamination: Remove contaminated clothing. Rinse skin thoroughly with plenty of water, then wash with soap, rinse again. In case of sensitization / irritation get medical attention. Wash contaminated clothing before reuse.

Eye contamination: Rinse with clean water or dedicated eye washing kit with wide open eye lids for at least 15 minutes. Remove contact lenses if present, continue rinsing. If persistent irritation occurs get medical attention.

Inhalation exposure: Remove victim from exposed area to fresh air, which in most cases should be sufficient. In case of feeling unwell get medical attention.

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Ingestion: Rinse mouth with water. Immediately after ingestion, to conscious person, give plenty of water to drink. Provoke vomiting only if told to do so by medical personnel. Do not provoke vomiting and give anything by mouth to unconscious person. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms – temporary skin and eye irritation

Delayed symptoms – possible allergic reaction when particularly sensitive

Effects of exposure – no data

4.3. Indication of any immediate medical attention and special treatment needed

Information for the physician: no known antidote, treat symptomatically..

SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing media**

Suitable extinguishing media: CO₂, alcohols resisted foams, water mist; use media appropriate of fire surroundings

Unsuitable extinguishing media: strong stream of water.

5.2. Special hazards arising from the substance or mixture

During the fire of the product following compounds might be emitted – carbon oxides, other harmful gases. Avoid breathing of combustion products, they might be hazardous to health.

5.3. Advice for firefighters: Unconditionally use personal breathing apparatus and wear appropriate protective clothing during firefighting and cleaning after the fire inside closed and poorly ventilated rooms.

General advice: evacuate all unauthorised personnel for area of danger.

Additional remarks: Additional remarks: containers and packages endangered by fire or high temperature should be cooled down by water from a safe distance, or relocated from area of fire if possible and safe. Fire residues and contaminated extinguishing media has to be disposed according to current regulation. Do not dispose extinguishing media to sewers.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures:**

Avoid contact with released product. Protect eyes and skin. Do not breathe mist / vapours of the product. Use recommended personal protection measures.

6.2. Environmental precautions:

Do not allow the product to get to the sewers, ground and surface waters. Do not rinse product to the sewers.

6.3. Methods and material for containment and cleaning up:

In case of unsealed container or spillage secure source of contamination and move product to empty emergency container. Large spillages gather mechanically (pumping) and dispose. Small spillages should be treated with appropriate sorbent (sand, sawdust, diatomaceous earth), gathered to closed and labelled container and safely disposed. Cleaning up should be conducted under appropriate ventilation. Area of spillage should be rinsed with water.

6.4. Reference to other sections:

Personal protection measures – Section 8

Waste management – Section 13

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling::

Avoid direct contact with the product, do not inhale mist/vapours. Avoid contamination of eye and skin. Wash hands thoroughly after work. Provide adequate ventilation in work space to avoid building up harmful concentrations of the product in air. Use personal protection measures as given i Section 8.

Special precautions against fire and explosion:

Not required.

Industrial hygiene:

- provide adequate general ventilation
- provide place for eyes and hands cleaning in case of contamination
- wash hands by water and soap before eating, smoking and after work end.
- immediately clean all spilled materials
- follow common safety precautions of chemicals handling

7.2. Conditions for safe storage, including any incompatibilities:

Store in original, labelled and tightly closed containers in cold and well ventilated room. Protect against heat sources and direct sunlight. Recommended storage temperatures: 5 to 35 °C. Keep away of children. Do not store with food, beverages, feeding stuff.

7.3. Specific end use(s)::

See section 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Threshold exposure limits:

3,7-Dimetylookta-2,6-dienal (citral), CAS: 5392-40-5 has established TLV in following countries: (Italy, Mexico, Poland, Spain, USA). Checking national legislation for exact concentrations and methods of control of workspace is mandatory/.

DNELs (Derived No Effect Levels) for hazardous ingredients.

Citral, CAS: 5392-40-5

Route of exposure	Workers				Consumers			
	Acute effect local	Acute effects Systemic	Chronic effects local	Chronic effects systemic	Acute effect Local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	n. d.	n. d.	n. d.	n. d.	n. d.	n. d.	n. d.	600 µg/kg bw/day
Inhalation	n. d.	n. d.	n. d.	9 mg/m ³	n. d.	n. d.	n. d.	2.7 mg/m ³
Dermal	n. d.	n. d.	n. d.	1.7 mg/kg bw/day	n. d.	n. d.	n. d.	1 mg/kg bw/day

n. d. – no data

8.2. Exposure controls:

Technical control measures

Mechanical general ventilation is appropriate measure in normal temperature. Additional local ventilation might be required when concentration of vapours is elevated over safe thresholds.

Personal protection measures

a) respiratory protection – in normal conditions is not required. When general ventilation is not effective enough use masks with type A filter against organic vapours.

b) hand protection – use of protective gloves is recommended. Gloves material has to be impermeable and resistant to the product. Neoprene or nitrile rubber of 0.4 mm thickness might be sufficient. If prolonged contact with the product is foreseen – gloves of class 5 protection (according to EN 374) should be used. For shorter

contact periods class 3 would be sufficient (breakthrough time above 60 min). Resistance of glove material to the product should be checked before use. Glove manufacturer might provide data of breakthrough time of the product with glove material – in such case glove manufacturer information must be followed. Regular glove replacement is recommended. Obligatory replacement is due when any signs of damage (tear, puncture) occurs or any change in glove appearance (colour, shape, flexibility).

c) Eye protection – protective glasses with side shielding are recommended.

d) Skin protection – full protective clothing required

Protective equipment standards:

EN 140:2001 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking

EN 143:2004 Respiratory protective devices - Particle filters - Requirements, testing, marking

EN 149+A1:2010 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking

EN 14387+A1:2010 Respiratory protective devices - Gas filter(s) and combined filter(s) - Requirements, testing, marking

EN 374-1:2005 Protective gloves against dangerous chemicals and micro-organisms -- Part 1: Terminology and performance requirements for chemical risks

EN 374-2:2005 Protective gloves against chemicals and micro-organisms - Part 2: Determination of resistance to penetration

EN 374-3:2005 Protective gloves against chemicals and micro-organisms – Part 2: Determination of resistance to permeation by chemicals

PN-EN 166:2005 Personal eye protection. Specifications

PN-EN 14605+A1:2010 Protective clothing against liquid chemicals. Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])

PN-EN ISO 20344:2012 Personal protective equipment -- Test methods for footwear

Environmental exposure controls:

Do not allow the product to get to the soil, surface and ground water.

PNECs (Predicted No Effect Concentrations) for hazardous ingredients:


Citral, CAS: 5392-40-5

Environmental protection target	
Fresh water	6.78 µg/L
Freshwater sediments	125 µg/kg sediment dw
Marine water	678 ng/L
Marine sediments	12.5 µg/kg sediment dw
Intermittent releases (freshwater)	67.8 µg/L
Food chain	No data available
Microorganisms in sewage treatment	1.6 mg/L
Soil (agricultural)	20.9 µg/kg soil dw
Air	No data available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Appearance:	White to off-white liquid
Odour:	Characteristic
Odour threshold:	No data
pH:	7.2
Melting point/freezing point:	No data
Initial boiling point and boiling range:	No data
Flash point:	No data
Evaporation rate:	No data
Flammability:	Not applicable
Upper/lower flammability or explosive limits:	Not applicable

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Vapour pressure:	No data
Vapour density:	No data
Relative density (20°C):	1,019
Solubility in water:	Insoluble, dispersible
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data
Explosive properties:	No data
Oxidising properties:	No data

9.2. Other information: No data

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

No reactivity under normal storage conditions and handling.

10.2. Chemical stability:

Product chemically stable under normal conditions (Section 7)

10.3. Possibility of hazardous reactions:

No risk of hazardous reactions under normal conditions

10.4 Conditions to avoid:

Direct sunlight, heat sources, high temperature

10.5. Incompatible materials:

Strong oxidizers

10.6 Hazardous decomposition products:

Under normal conditions – not known.

SEKCJA 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Classification of the product was conducted by calculation method according to regulation 1272/2008 based on the content of hazardous ingredients:

Acute toxicity (estimated):

Acute Oral Toxicity: based on data available classification criteria are not met, $ATE_{mix} > 2000$ mg/kg

Acute Dermal Toxicity: based on data available classification criteria are not met, $ATE_{mix} > 2000$ mg/kg

Acute Inhalation Toxicity: based on data available classification criteria are not met, $ATE_{mix} > 5$ mg/l

Skin corrosion/irritation: based on data available classification criteria are not met

Serious eye damage/irritation: based on data available classification criteria are not met

Respiratory or skin sensitization: product classified as skin sensitizer, may cause an allergic skin reaction

Germ cell mutagenicity: product does not contain any compounds with germ cell mutagenicity hazard

Carcinogenicity: product does not contain any compounds with carcinogenic hazard

Reproductive toxicity: product does not contain any compounds with reprotoxic hazard

STOT-single exposure: based on data available classification criteria are not met

STOT-repeated exposure: based on data available classification criteria are not met

Aspiration hazard: based on data available classification criteria are not met

Potential health effects:

Ingestion – no data

Inhalation – no data

Skin – may cause skin sensitization

Eyes – no data

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-**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity:**

Classification of the product was conducted by calculation method according to regulation 1272/2008 based on the content of hazardous ingredients.

Based on data available classification criteria are not met

12.2. Persistence and degradability:

No data

12.3. Bioaccumulative potential:

No data

12.4. Mobility in soil:

No data

12.5. Results of PBT and vPvB assessment:

Product does not meet the criteria for PBT or vPvB according to Annex XIII of REACH regulation

12.6. Other adverse effects:

Product is not classified as environmentally hazardous. Nevertheless do not introduce the product into soil, surface and ground water.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods:**

Wastes of the product: Unused remains keep in original containers. Get the wastes to the establishment authorized for transport, recovery and disposal of wastes. Do not enter product remains to the sewers, surface waters, soil.

Suggested waste code: 16 03 05* organic wastes containing dangerous substances

Disposal of empty packaging: Recycling or disposal of empty packaging must be performed in compliance with current legislation.

Waste code: 15 01 02 plastic packaging

SECTION 14: TRANSPORT INFORMATION

No special transport measures necessary. Product does not fall under transport regulations (ADR, IATA DGR, IMDG CODE) Transport when covered. Protect packaging against relocation during transport.

14.1. UN number: doesn't concern

14.2. UN proper shipping name: doesn't concern

14.3. Transport hazard class: doesn't concern

14.4. Packing group: doesn't concern

14.5. Environmental hazards: no

14.6. Special precautions for user: see section 7.1

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code: doesn't concern

SEKCJA 15. INFORMACJE DOTYCZĄCE PRZEPISÓW PRAWNYCH**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:**

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)

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- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
 - Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
 - European agreement concerning international road transport of dangerous products (ADR)
 - DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC
- Federal, State and Local regulations

15.2. Chemical safety assessment:

Chemical safety assessment was not conducted for the product.

SECTION 16: OTHER INFORMATION

Explanation of risk phrases and hazard category referring hazardous substance contained in product:

Acute Tox. 4, H302 Harmful if swallowed
Skin Irrit. 2, H315 Causes skin irritation
Skin Sens.1, H317 May cause an allergic skin reaction
Eye Dam. 1, H318 Causes serious eye damage
Eye Irrit. 2, H319 Causes serious eye irritation
Aquatic Acute 1, H400 Very toxic to aquatic life

Explanation of abbreviations and acronyms used in the SDS:

CAS – Chemical Abstracts Service
EINECS – Number assigned to a substance in the European Inventory of Existing Commercial Chemical Substances
PBT – persistence, bioaccumulation potential and toxicity
vPvB – very high durability and very bioaccumulative
TLV – threshold limit value in the workplace
STEL – short term exposure limits maximum of a substance harmful to health in the workplace
LD₅₀ – Lethal Dose, 50%
LC₅₀ – Lethal Concentration, 50%
EC₅₀ – Effect Concentration 50%
UN number – identification number of the material (the number of UN, UN number)
ADR – European Agreement concerning the international carriage of dangerous goods by road
IMDG – International Maritime Dangerous Goods Code

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)


Classification of mixture was made according to content of hazardous components according to the Regulation (EC) No 1272/2008.

Training: Personnel should be trained prior to handling of the product.

Recommendation and restriction of use: Use according to label. Additional safety information available at producer.

Source of data: this SDS was prepared based on SDS of ingredients, data of product, literature, and our knowledge and experience according to actual legislation:
ECHA European Chemicals Agency

Disclaimer: information given is designed only as a guide for safe handling, use, processing, storage,

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transportation, disposal and release and is not to be considered as a warranty or quality specification. End user is responsible for inappropriate use of information enclosed in MSDS or inappropriate use of product.