



SAFETY DATA SHEET

PARADISO SC

SDS/Isr/GHS/V2.2

Issue date: 17.05.2023

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifiers

Product name: Paradiso SC
Chemical name: Bifenazate
CAS No.: 149877-41-8

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

Identified uses: Acaricide for agricultural use

Details of the supplier of the safety data sheet

Supplier: Almandine Corporation SA
Gotthardstrasse 3
6300 Zug
Switzerland
Tel: +44 20 8995 8391 (UK office)
Fax: +44 20 8995 7639
Email: almuk@almandine.com

Formulation sites:

a. Agrosmart Limited
Colliers Way,
Clayton west,
West Yorkshire,
United Kingdom

b. Chromos Agro doo
Zagreb, Croatia

Emergency telephone number

Tel: +44 20 8995 8391 (SDS support, 9.00-5.00pm; Mon-Fri only, UK)

SECTION 2: HAZARDS IDENTIFICATION

Aq.chronic 2



Pictogram(s):

Signal word: Warning

Hazard statement(s):

H411: Toxic to aquatic life with long lasting effects

Precautionary statement(s):

P273: Avoid release to the environment

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

Other hazards: Contains 1,2-Benzisothiazoline-3-one: May cause an allergic skin reaction

SDS: PARADISO SC

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Name	CAS N°	g/litre	Signal word	H Statements
Bifenazate	149877-41-8	240	Warning	H317, H400, H410
1,2-Benzisothiazoline-3-one	2634-33-5	≥0.025- <0.05	Danger	H290, H302 H314, H317

SECTION 4: FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre and follow the advice given. Show this Safety Data Sheet to the doctor.

- Inhalation:** Remove patient from exposure, keep warm and at rest. If symptoms develop, seek medical attention.
- Skin contact:** Remove immediately all contaminated clothing. Wash skin immediately with water for 15 - 20 minutes. Wash contaminated clothing before wearing again. Seek medical attention if irritation develops.
- Eye contact:** Immediately irrigate with eyewash solution or clean water, holding the eyelids apart for at least 15 minutes. Seek medical attention.
- Ingestion:** Rinse mouth immediately and then drink plenty of water. Do not induce vomiting unless told to do so by a poison control centre or doctor. Never induce vomiting or give anything by mouth if the patient is unconscious or having convulsions.
- Medical Advice:** Observe the patient and treat symptomatically, no known specific antidote.

SECTION 5: FIRE FIGHTING MEASURES

Keep fire-exposed containers cool by spraying with water.

- Extinguishing media:** For small fires, use foam, carbon dioxide or dry powder. For large fires, use foam or water-fog; avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.
- Protective equipment:** A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.
- Under fire conditions:** May produce toxic gases: NO_x, CO_x

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Wear PPE as recommended in section 8.
- Environmental precautions:** Prevent product from entering drains.



Clean-up methods: Adsorb spillage onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Washings must be prevented from entering surface water drains.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Ensure adequate ventilation. When using, do not eat, drink or smoke.

Storage: Keep original containers, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Protect from frost.

Storage Life: Physically and chemically stable for 2 years when stored in the original unopened sales container at ambient temperatures.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: No occupational OELs exist for this product.

Ingestion: Prevent eating, drinking, and smoking when handling the material. Wash thoroughly with soap and water after handling.

Eye contact: Where eye contact is likely, use chemical splash goggles, or safety glass with side-shields.

Skin contact: Wear chemical-resistant gloves (such as nitrile or butyl), coveralls, socks and chemical-resistant footwear.

Inhalation: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance:	Off-white to beige liquid
b) Odour:	faint solvent
c) Odour threshold:	none set
d) pH:	5 - 8
e) Melting point/freezing point:	122°C (tech.)
f) Boiling point/boiling range:	decomposes (tech.)
g) Flash-point:	Does not flash
h) Evaporation rate:	not determined
i) Flammability (solid/gas):	Not flammable
j) Upper/lower flammability or explosive limits:	not applicable
k) Vapour pressure:	1.33×10^{-2} mPa (tech.)
l) Vapour density:	1.013×10^{-3} Pa m ³ mol ⁻¹ (tech. calcn)
m) Relative density:	1.04 - 1.08 g/mL (20°C)
n) Solubility:	2.06 mg/L (water, 20°C; tech.)
o) Partition coefficient:	Log P _{ow} 3.4
p) Auto-ignition temperature:	not determined
q) Decomposition temperature:	not determined



- r) Viscosity: Non-newtonian
- s) Explosive properties: Not explosive
- t) Oxidising properties: Not an oxidiser

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable for two years unopened under normal ambient storage conditions.

Hazardous decomposition

Products: Combustion or thermal decomposition will evolve toxic and irritant vapours.

Spontaneous polymerisation: Does not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Oral toxicity: LD₅₀ rat: >2000-5000 mg/kg (GHS Cat 5)
Dermal toxicity: LD₅₀ rat: >2000-5000 mg/kg (GHS Cat 5)
Inhalation toxicity: >2.41 mg/L (4h)

Skin irritation: Non-irritant
Eye irritation: Non-irritant
Skin sensitisation: Not a skin sensitiser

Long-term exposure: No long term risks to man are associated with the normal handling and use of this material.

SECTION 12: ECOLOGICAL INFORMATION

(tech. material)

Bird toxicity: LD₅₀ Bobwhite quail 1036 mg/kg
Fish toxicity: LC₅₀ 96 h Bluegill sunfish 0.76 mg/L
Daphnia toxicity: EC₅₀ 48 h *Daphnia magna* 0.50 mg/L
Algae toxicity: EC₅₀ *Selenastrum capricornutum* 0.9 mg/L
Bees: LD₅₀ (contact) >8.5 µg/bee
Moderate risk to bees

It has low water solubility, volatile and would not be expected to leach to groundwater. Bifenazate is not expected to persist in soil or water systems.

SECTION 13: DISPOSAL CONSIDERATIONS

Do not contaminate ponds, waterways or ditches with chemical or used containers. Empty containers should be washed and discarded. Empty containers should not be used for other purposes. Disposal should be in accordance with local, state or national legislation.



SECTION 14: TRANSPORTATION INFORMATION

UN number: 3082

UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S.
(contains bifenazate)

Transport hazard class: ADR/RID: 9 IMDG: 9 IATA: 9

Packaging group: ADR/RID: III IMDG: III IATA: III

Environmental hazard: ADR/RID: Yes IMDG: Marine pollutant: Yes IATA: Yes

SECTION 15: REGULATORY INFORMATION

No additional regulatory information required for this product.

SECTION 16: OTHER INFORMATION

H-Statements in full:

H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
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

No liability is accepted for any injury, loss, damage or cost arising directly or indirectly from the use of the product or from the use of information contained within the safety data sheet, since the customer's treatment of the product is necessarily beyond our control. The supplied data are based on current knowledge and experience. This safety data sheet is intended to describe our product in terms of safety requirements. The customer should determine by appropriate trials that the product is suitable for its intended use.

Sections 9, 11 and 12 based on available EU data and own studies.

Self-classification of mixture

GHS classification

Updates to sections:12

Supersedes version issued 23.02.2023