	Vioryl, Chemical and Agricultural Industry, Research S.A.
	Safety Data Sheet
	ECO-TRAP RB

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According to the Regulations EU 2020/878, 1907/2006 (REACH) & 1272/2008 (CLP)

Revision date: 08-06-2023

Edition: 1.4

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 Product identifier

Designation- Description	Insecticidal baited trap. Paper-plastic green envelope with pheromone + bait composed by a) A strong sealed envelope containing the food attractant (ammonium bicarbonate), the outer surface of which is impregnated with the contact insecticide deltamethrin. b) One dispenser containing the olive fruit fly pheromone
Trade name	ECO-TRAP RB
Product identifier	Ammonium bicarbonate (CAS no1066-33-7): H302 UFI 5H20 X08W S00F 045K

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

Product Use	Baited trap with food and pheromone attractants for the mass trapping of the olive fruit fly adults in olive groves
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1.3 Details of the supplier of the safety data sheet

Vioryl s.a. 28 th km Athens-Lamia National Road,19014 Afidnes, GREECE	Tel.	+30 22950 45100
	Fax :	+30 22950 45250
	Email	vioryl@vioryl.gr

1.4 Emergency telephone number: In case of poisoning call:
(Greece) Poisoning center: +30 210 7793777
(Greece) National emergency center: 166
(Cyprus) Poison Center: 1401

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture

The product is classified as hazardous according to the Regulation (EC) 1272/2008(CLP) and subsequent amendments and supplements.

2.1.1 Regulation (EC) 1272/2008(CLP) and following amendments and adjustments.

Acute toxicity, category 4, H302
Skin irrit, category 2, H315
Eye irrit, category 2, H319
Aquatic chronic, Category 1. H410


2.2 Label elements

Hazard labelling according to the Regulation (EC) 1272/2008 (CLP).

Hazard pictograms



Signal word: Warning

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Hazard statements:

H302: Harmful if swallowed

H315: Causes skin irritation

H319: Causes serious eye irritation.

H410: Very toxic to aquatic life with long lasting effects

Precautionary statements- prevention:

P405+P102: Keep it locked and out the reach of children

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

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

Precautionary statements- response:

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

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

Other hazard statements

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

SP1: Do not contaminate water with the product or the package.

2.3 Other hazards

PBT and vPvB Assessment :The product is not considered to be Persistent, Bioaccumulative and Toxic or very Persistent and very Bioaccumulative.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: not applicable


3.2 Mixtures:

Hazardous components	oncentration % w/w	EC Classification
		Regulation 1272/2008EC
Deltamethrin CAS no 52918-63-5	0.0187	GHS06, GHS07 Danger Acute Tox. 3, H301 Acute Tox. 3, H331 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ammonium bicarbonate CAS no1066-33-7	87-88	GHS07,Warning Acute Tox. 4(oral), H302

For full text of H-statements see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

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Eye Contact: Eye contact may cause irritation, discomfort, tearing and redness. Immediately flush/rinse eye with copious amounts of water for at least 10 minutes. Obtain medical attention.

Skin Contact: In case of skin irritation, wash the affected area with soap and water. Get medical attention if irritation persists. Wear gloves during handling and placing the traps.

Ingestion: Get medical attention. Do not induce vomiting. Give water or milk to drink.

Inhalation: Exposure to vapours may result in minor irritation of the upper respiratory tract. Remove to fresh air. Obtain medical attention if ill effects occur.

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

Following eye contact:

Possible slight transitory redness discomfort, tearing and swelling. Delayed effects are not expected.

Following skin contact:

This product is irritating for skin. Not expected to cause prolonged or significant skin irritation. Delayed effects are not expected.

Following ingestion of the trap content:

Ingestion of the envelope content may produce irritation of the mucous membranes as demonstrated by signs and symptoms of mouth membrane irritation, nausea and vomiting. Delayed effects are not expected.

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

Notes for the physician. There is no specific antidote. Treat symptomatically. Call a Poison Centre.

5. FIRE FIGHTING MEASURES

5.1. Suitable extinguishing Media: Water, Carbon dioxide, foam, dry chemical or any class B extinguishing agent.

5.2. Special hazards arising from the substance or mixture.

If product is involved in the fire

When strongly heated it can melt and decompose giving off carbon monoxide, dioxide and nitrogen oxides.

Unusual Fire and Explosion Hazards: none

5.3. Advice for firefighters

Special Firefighting Procedures: Do not enter any confined fire space without proper protective equipment.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency and appropriate protective clothing. Clothing conforming to EN469 is sufficient with fires involving the product. Contain and collect extinguishing water. Avoid product discard into drains.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel:

Emergency procedures: Avoid all unnecessary exposure.

6.1.2. For emergency responders:


Wear appropriate personal protective equipment.

Emergency procedures: Avoid contact with skin and eyes. Evacuate unnecessary personnel.

6.2. Environmental precautions

The product is classified as harmful to aquatic life. Keep product away from ground and surface waters, drainage, sewage and any water source. If it enters drains call immediately the local authorities.

6.3. Methods and material for containment and cleaning up

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Small release: Sweep off the released material and discard in trash.

Large release: Collect the released product in plastic drums for disposal in accordance with instructions provided under Section 13.

6.4. Reference to other sections

See section 8 for protective equipment and section 13 for disposal instructions.

7. **HANDLING AND STORAGE**

7.1. Precautions for safe handling

Read the safety precautions. Ensure adequate ventilation in the areas where the product is stored and used. Avoid contact with bare skin. Wear protective gloves. When using, do not eat, drink or smoke. Remove contaminated clothing and protective equipment after work. Wash your hands thoroughly after using this product.

7.2. Conditions for safe storage, including any incompatibilities

Store in original packing material and out of the reach of children.
Keep away from sources of heat or fire. Protect from overheating.
Avoid unnecessary release of product into the environment.

7.3. Specific end use(s)

The product is an EU authorized Insecticidal trap. Advise the label information.

8. **EXPOSURE CONTROLS/ PERSONAL PROTECTION**

8.1 Control parameters

Components with occupational exposure limits

Components	CAS-No.	Control parameters	Basis
Deltamethrin	52918-63-5	0.02 mg/m ³ (TWA)	OES BCS*

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

1066-33-7: Ammonium hydrogencarbonate

DNEL

worker: Long-term exposure - systemic and local effects, Inhalation: 62.5 mg/m³

worker: Long-term exposure- systemic effects, dermal: 57 mg/kg

worker: Short-term exposure - systemic and local effects, Inhalation: 160.7 mg/m³

consumer: Long-term exposure - systemic and local effects, Inhalation: 13.33 mg/m³

consumer: Short-term exposure - systemic and local effects, Inhalation: 143.91 mg/m³

consumer: Long-term exposure- systemic effects, dermal: 34.2 mg/kg

8.2. Exposure controls

8.2.1 Appropriate engineering controls

Adequate ventilation is necessary.


8.2.2. Personal protection equipment

In normal use conditions personal protective equipment is not deemed to be necessary

Wear suitable gloves when handling the product over long periods.

After handling product, wash hands and observe good hygiene practice.

If vapors present, move to a place of adequate ventilation.

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For excessive exposure to the product the following apply:

Hand protection: Wear impervious gloves (Good resistance gives: Nitrile rubber (NBR).

Eye protection: Wear goggles.

Skin and body protection: Suitable protecting clothes.

Respiratory protection: No personal respiratory protective equipment normally required.

8.2.3. Environmental exposure controls

Implement the local environmental protection legislation. Do not discard product into drains. Do not contaminate water resources with the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<i>Appearance</i>	Green paper envelope 15X20 cm containing ammonium bicarbonate combined with a pheromone capsule
<i>Odor</i>	Ammonia
<i>pH</i>	Not applicable
<i>Explosive properties</i>	Not explosive
<i>Oxidizing properties</i>	Not classed as an oxidizing material
<i>Specific gravity</i>	Not applicable

10. STABILITY AND REACTIVITY

10.1. Reactivity

No hazardous reactions are expected. The product is stable for up to 2 years.

10.2. Chemical stability

The product is stable under normal conditions of storage, handling and use. Product is stable in its closed package in a dry place at temperatures below 30° C for at least 2 years.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Avoid unnecessary exposure of the product in sunlight and high temperatures.

10.5. Incompatible materials

No data available.

10.6. Hazardous Decomposition Products:

Combustion may yield carbon monoxide, dioxide and nitrogen oxides. Do not breathe smoke or fumes. Wear appropriate protective equipment.

11. TOXICOLOGICAL INFORMATION

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

Deltamethrin

Acute toxicity


Acute oral LD50(rat) 87 mg/kg

Acute inhalation toxicity LC50(rat) 0.6 mg/l. Exposure time 6 h

Acute dermal toxicity LD50 for rabbits > 2.000 mg/kg

Skin irritation: No skin irritation (Rabbit)

Eye irritation: No eye irritation (Rabbit)

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Assessment Mutagenicity: Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Carcinogenicity: Deltamethrin was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment Toxicity to Reproduction: Deltamethrin did not cause reproductive toxicity in a two-generation study in rats.

Ammonium bicarbonate

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. The statements have been derived in parts from substances of a similar structure or composition.

Experimental/calculated data:

LD50 rat (oral): approx. 1,576 mg/kg

LC50 rat (by inhalation): > 4.74 mg/l 4.5 h

The substance has not been tested. The statement has been derived from substances/products of a similar structure or composition. An aerosol was tested.

LD50 rat (dermal): > 2,000 mg/kg

The substance has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Irritation

Assessment of irritating effects:

Not irritating to the eyes. Not irritating to the skin. The statements have been derived in parts from products of a similar structure or composition.

Experimental/calculated data:

Skin corrosion/irritation: non-irritant (OECD Guideline 431)

Skin corrosion/irritation: rabbit, non-irritant (other)

The substance has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Serious eye damage/irritation: no irreversible damage (HET-CAM test in vitro)

Serious eye damage/irritation rabbit: non-irritant (other)

The substance has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies. The product has not been fully tested.

The statements have been derived in parts from products of a similar structure or composition. The chemical structure does not suggest a sensitizing effect.

Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing. (other)

The substance has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Germ cell mutagenicity

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture.


Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

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12. ECOLOGICAL INFORMATION

12.1 Toxicity

Considering the low percentage of deltamethrin and the mode of application of ECO-TRAP, there are no harming effects to aquatic life arising from the use of the product.

Deltamethrin is highly toxic to fish under laboratory conditions; however, in field conditions when ECO-TRAP is used according to the label there is no possibility to harm aquatic life.

Deltamethrin

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 0,15 µg/l
Exposure time: 96 h

Toxicity to aquatic invertebrates EC50 (Daphnia magna (Water flea)) 0,0131 µg/l
Exposure time: 48 h

Toxicity to aquatic plants EC50 (Algae) > 9,1 mg/l
Exposure time: 96 h

Ammonium bicarbonate

Toxicity to fish: LC50 (96 h) 63.4 mg/l, Oncorhynchus mykiss (Fish test acute)

Aquatic invertebrates: EC50 (48 h) 145.6 mg/l, Daphnia magna (Daphnia test acute, static)

Aquatic plants: EC50 (120 h) approx. 1,900 mg/l (growth rate), Chlorella vulgaris (static)

The substance has not been tested. The statement has been derived from substances/products of a similar structure or composition.

EC50 (18 d) 3,231 mg/l, Chlorella vulgaris (static)

The substance has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Microorganisms/Effect on activated sludge: EC10 (16 h) 1,347 mg/l, Pseudomonas putida (DIN 38412 Part 8, aquatic)

Chronic toxicity to fish: EC10 (30 d) 6.3 mg/l, Lepomis macrochirus (Flow through.)

Chronic toxicity to aquatic invertebrates: EC10 (70 d) 3.7 mg/l, Daphnia magna (semistatic)

12.2 Persistence/Degradability

Breakdown of Deltamethrin in Surface Water: In pond water was rapidly adsorbed mostly by sediment, in addition to uptake by plants and evaporation into the air.

Breakdown of Deltamethrin in Vegetation: About 10 days after use, there are no deltamethrin residues observed on plants.

Breakdown of Deltamethrin in Soil and Groundwater: In soil, degradation occurs within 1-2 weeks.

Ammonium bicarbonate:

Assessment biodegradation and elimination (H2O):

Inorganic product which cannot be eliminated from water by biological purification processes. Can be oxidized to nitrate, or be reduced to nitrogen, by microorganisms.


12.3 Bioaccumulative potential:

Deltamethrin: Bioconcentration factor (BCF) 1.400

Does not bioaccumulate.

12.4. Mobility in soil:

Deltamethrin: Immobile in soil

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Ammonium bicarbonate: Adsorption to solid soil phase is not expected.

12.5. Results of PBT and vPvB assessment:

PBT and vPvB assessment deltamethrin: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

12.6. Other adverse effects:

No other effects to be mentioned.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Material collected should be disposed of in accordance with applicable local procedures.

Product disposal: Discard the outer package of the product in trash or to recycling units. Dispose of the unused product according to local regulations. Never throw to any drain or water resources.

Used trap envelopes: Do not reuse the traps. After 6 months of use throw to common garbage or to paper/plastic recycling units.

14. TRANSPORT INFORMATION

Classified according to the criteria of the following international transport agreements, codes, regulations and instructions:



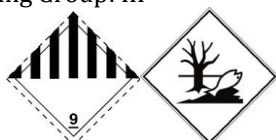
Land transport ADR/RID

Environmentally hazardous substance solid n.o.s

UN number: 3077

ADR/RID Class: 9

Packing Group: III



Maritime transport IMDG

Environmentally hazardous substance solid n.o.s

UN number: 3077

IMDG Class: 9

Packing Group: III

MARINE POLLUTANT



Air transport ICAO-TI and IATA (DGR)


Environmentally hazardous substance solid n.o.s

UN number: 3077

ICAO/IATA Class: 9

UN number: Not regulated

Packaging group: III

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14.1. UN number

See the relevant entries for "UN Number" in the text above.

14.2. UN proper shipping name

See related entries for "UN proper shipping name" in text above.

14.3. Class(es) of risk during transportation

See the relevant entries for "Transport Hazard Class(es)" in the text above.

14.4. Packing group

See related entries for "Packaging Group" in text above.

14.5. Environmental hazard

See related entries for "Environmental Hazards" in text above.

14.6. Special precautions for the user

See related entries for "Special precautions for user" in text above.

15. REGULATORY INFORMATION

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

- **Regulation (EC) No 1005/2009**, about substances that deplete the ozone layer: Not applicable

- **REGULATION (EU) No 649/2012**, in relation to the import and export of hazardous chemical products: Not applicable

- **Seveso III**: Not applicable

- **Regulation (EC) No 1107/2009** of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC.

This product has been evaluated for safety and risks concerning health and environment with the principles of the above mentioned Regulation.

- **Regulation (EC) 1272/2008** 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.

This product is classified according to the above mentioned Regulation.

- **Regulation (EC) No 1907/2006 (REACH)** Candidate substances for authorization: not applicable
Substances included in Annex XIV of REACH ("Authorization List") and sunset date: Not applicable

- **Regulation (EC) 1907/2006** of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency.

This product contains only ingredients that are either pre-registered, registered, excluded from registration or considered to be registered in accordance with Regulation (EC) 1907/2006 (REACH).

16. OTHER INFORMATION

16.1 Indication of changes:

The contents of the following section(s) alter and supersede those in the previous version:

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 & 16. All parts updated in accordance to the Regulation (EU) 2020/878 amending Regulation (EC) No 1907/2006.

16.2 Full text of H - Statements

H301 Toxic if swallowed,

H302 Harmful if swallowed


H315 Causes skin irritation

H319 Causes serious eye irritation.

H331 Toxic if inhaled,

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects

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16.3 Further information:

According to Regulation (EU) 2020/878 amending Regulation (EC) No 1907/2006, the information in this safety data sheet is based on the properties of the materials known to VIORYL S.A. at the time the data sheet was issued. The safety data sheet is intended to provide information for a healthy and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. It is the user's responsibility to determine conditions of safe use of the product, according to the information provided in this safety data sheet.

This document is not intended for quality assurance purposes.

Date of last issue/ revision: 08-06-2023