

Precautions:

Do not use as concentrated product. Follow the manufacturer's instructions. When using do not contaminate food, drinks or food and drink containers- after handling, and in case of contamination, wash thoroughly with water and soap- If the product is used in living quarters or in bedrooms, ventilate the room before entering again- in case of use in farms, move the animals away during the treatment- Do not use in agriculture. Information for the physician: A.P. Pharmacodynamics action: it blocks nervous transmission.

Warning: Seek the advice of a poison Centre.

Self-life:

If stored at room temperature, in its original package, the product's characteristics do not change for 2 years.

Attention:

the manufacturer is not responsible for any damage to persons or things deriving from the product's misuse. The user is responsible to third parties as well. Not to be sold loose- Do not reuse the container- The completely empty container shall not be disposed of the environment.

Hazard Statements:

H318 Causes serious eye damage. H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P273 Avoid release to the environment.

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

P391: Collect spillage. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

P501: Dispose of contents/container to dangerous/special waste management stations.

Wastes Disposal:

The product and the packagings should be treated as dangerous waste. It should be sent to utilization in a plant which is allowed to collect, transport, recycle or neutralize such wastes.

Disposal of used packagings:

Dispose of contents/container to an authorized hazardous waste disposal plant or to a collection point dangerous waste.

Storage:

Store in an original, lightly closed packaging in a ventilated, dry compartment at moderate temperature (no less than 5°C and no more than 30°C). Keep away from children. Do not store with food, drinks and animal fodder.

تنبيهات:
لا تستعمل كمنتج مركزة.
اتب تعليمات الشركة الصانعة.
عند استعمال المنتج تجنب تلوين الأطعمة والمشروبات ومبوتات المشروبات - بعد المعالجة. وفي حال وقوع التلوث اغسل بالماء والصابون بالكامل- وإذا ما تم استعماله في أماكن السكن أو في حال غرف النوم، قم بتطهير الغرفة قبل دخولها ثانية - أما في حال استعمال المنتج في المزارع، أخرج الحيوانات بعيداً خلال المعالجة.
لا تستعمل المنتج في الزراعة.
معلومة طبية: A.P. فارماكوديناميك - التأثير، يمنع انتقال الإشارة العصبية.

تحذير:
يرجى طلب المشورة من مركز السموم.

الصلاحية:
إذا تم تخزين المنتج على درجة حرارة الغرفة وفي عبواته الأصلية فلا تتغير خصائصه لمدة سنتين على الأقل.

تنبيه:
الشركة المصنعة غير مسؤولة عن أي ضرر يلحق بالأشخاص أو الأشياء الذي ينشأ عن سوء استعمال المنتج. المستخدم هو المسؤول عن الضرر. لا يباع المنتج محلولاً - لا تعيد استعمال العبوة مرة أخرى- يجب أن لا يتم التخلص من العبوة الفارغة بإلقائها في البيئة.

بيانات المخاطر:
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اتب تعليمات الشركة الصانعة.
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لا تستعمل المنتج في الزراعة.
معلومة طبية: A.P. فارماكوديناميك - التأثير، يمنع انتقال الإشارة العصبية.

تحذير:
يرجى طلب المشورة من مركز السموم.

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Restricted use Pesticides
For retail sale to and use only by certified applicators or Persons under their direct supervision.

المبيد مقيد الاستخدام
لبيعه والاستخدامه فقط من قبل فنيين مرخصين أو تحت إشرافهم الفني المباشر.

ديدينا DEADYNA®

مبيد حشري بايرثيرويد في صورة محلول سائل في الماء على هيئة مستحلب ذات مكونات متناهية الصغر للاستعمال المنزلي والمهني

LIQUID PYRETHROID INSECTICIDE IN AQUEOUS MICROEMULSION FOR DOMESTIC AND CIVIL USE

التركيب:
1000 جرام من خليط المنتج لتحتوي على:
سايربيرمثرين ثقي (سيس) ١٠٠/٤١ ٦,٨٥ جم (٦٩,٢٠ جم / لتر)
(ثقي ٧٧,٦١ جم)
تتراميثرين ثقي ١,٢٥ جم (١٢,٦٠ جم / لتر) (ثقي ١,٣٦ جم)
صفات مشتركة كيو. أس. لكل جم. ١٠٠
يحتوي سلفونات كالسيوم دوسيليزين طولي

COMPOSITION:
100 gm of product content
Pure Cypermethrin (cis/trans 40/60) 6.85g (69.2g/l) (technical 7.61g)
Pure Tetramethrine 1.25g (12.6g/l) (technical 1.36g)
Co-formulants q.s. for g.100
Contains Linear Dodecyl benzene Calcium Sulfonate.

تحذير
KEEP OUT OF REACH OF CHILDREN
يحفظ المبيد بعيداً عن متناول الأطفال

MOCCA E Registration Number:
رقم التسجيل بوزارة التغير المناخي والبيئة:
DXB-AD-140-2101

Manufacturing Company
BLEU LINE S.r.l.

Via Virgilio, 28 - Z.L. Villanova - 47122 Forlì (FC) - Italy
Tel (+39) 0547 754430 - Fax (+39) 0543 754162

بولين أس آر آل
الشركة المنتجة

إيطاليا - (FC) فيلانوف - ٤٧١٢٢ فورلي Z.L. عبر فيرجيليو، ٢٨
الهاتف: ٥٤٣ ٧٥٤٤٠٠٠ - (٣٩) ٥٤٣ ٧٥١٢٢٠٠ (٣٩)

LOCAL DISTRIBUTOR
مؤسسة روابي الإمارات / EMIRATES RAWABI EST.
ص.ب. ١٥٤٥٩ دبي UAE PO Box: 15459 Dubai
تليفون: +9714-2227973

www.rawabiemirates.com

Net content: 1 Liter

المحتوى الصافي: ١ لتر

CHARACTERISTICS:
DEADYNA® is a formulation in aqueous microemulsion that contains the combination of two synthetic pyrethroids, i.e. the Cypermethrine and the tetramethrine, resulting in excellent persistency and very fast killing action respectively.

Application Fields:
It is effective against flying insects, like mosquitoes, Asian tiger mosquitoes, flies, wasps, horseflies, chironomids, demestidae, weevils, black flies, moths, lasiodermas, and crawling insects like cockroaches, ants, silverfish, weevils, flour beetles, and termites, and against fleas, and ticks. It is used effectively for pest control in civil, industrial, agricultural, and farming buildings, urban and suburban areas, houses, schools and nursery schools, gyms, barracks, cinemas, theaters, station and airport lounges. Holiday village, camping grounds, Canteens, hotels, restaurants. Hospitals, clinics, retirement homes, etc. food warehouses and storage facilities (not containing foodstuff), Warehouses and cigarettes production areas and tobacco deposits, industrial buildings in general. Port areas and equipment. Transport means. The product can be used against mosquitoes in gardens, meadows, ornamentals shrubs, hedges, and tree-lined roads.

Application instructions and doses:
DEADYNA® is to be mixed with water when used, and sprinkled by hand operated pressure pumps or motor sprayers at the ratio of 1 liter per 10-15 sqm surface, at the following doses:

• Flying insects indoor: use a 0.5-1% (50-100 ml in 10 L of water) dilution, according to the pest importance, and apply over surfaces (walls, horizontal surfaces, blinds, etc.) A highest dose is recommended for fly control.

• Outdoor: use a 0.5-1% (50-100 ml in 10 L of water) dilution on external walls, yards, under hedges and shrubs, etc. for treatments of green areas it is recommended to water the vegetation evenly, avoiding any dripping.

• Crawling Insects: Indoor: use a 0.5-1% (50-100 ml in 10 L of water) dilution according to the pest type and importance, and apply over surfaces, cracks, skirting boards, etc. the highest dosage is recommended for cockroach control.

• Outdoor: use a 0.5-1% (50-100 ml in 10 L of water) dilution on building external walls, sidewalks, yards, etc. DEADYNA® can be mixed at 3-5% with glycol-based solvents (300-500 ml in 100 liters of solvent) when used with hot or cold fogging equipment at the ratio of 0.5-1 liter of solution per surface hectare, or 0.5-2 liters each 1,000 m³ room volume.

WARRANTY STATEMENT:
The manufacturer to ensure the stability of the chemical and physical specifications for this pesticide and safety of his packing in the original normal storage for the duration of validity or a period under the conditions of the United Arab Emirates.

تاريخ الإنتاج:
تاريخ الانتهاء:
رقم التسجيل:

Manufacturing date:

Expiry date:

Batch number:

الخصائص:
ديدينا عبارة عن مبيد على هيئة مستحلب ذات مكونات متناهية الصغر في الماء تحتوي على خليط من تركيبين من البيرثيرويد سايربيرمثرين وتتراميثرين وفيهما ثابتين ويتمتعان بفاعلية سريعة على التوالي.

مجالات التطبيق:
المبيد الحشري فعال ضد الحشرات الطائرة مثل: البعوض والبعوض الثمري الأسود والذباب والديدان وذبابة الخيل والهاموش وخنفساء الجلد والسوس والذباب الأسود والانت خنفساء النخع والحشرات الزاحمة مثل الصراصير والنمل والخنفساء والقضبان والسوس وخنفساء الدقيق والنمل الأبيض وكذلك ضد البراغيش والقراد.

ويستعمل المبيد الحشري بفاعلية لمكافحة الآفات في الأبنية المدنية والصناعية والزراعية والمزرعية وفي المناطق الحضرية والصاحية والبيوت والمدارس والعيادات والصالات الرياضية والكتكاات ودور السينما والمسارح والحلقات وصالات المطارات والقري السياحية وأماكن التجميم والكنائيات والفنادق والطعام والمستشفيات والعيادات ودور المسنين والبيوت والح مخازن الأغذية ومراقف التخزين (التي لا تحتوي على مواد غذائية) والمخازن ومناطق إنتاج الحشرات ومخازن الثقل والأبنية الصناعية عمومًا والموانئ والعمارات ووسائل النقل. يمكن استعمال المبيد ضد البعوض في الحدائق والبروج وجيومات الزينة والسياح المكون من الشجيرات والحدائق المزروعة بالأشجار.

التعليمات التطبيقية والإجراءات:
لا بد من خلط ديدينا بالماء عند الاستعمال ومن ثم يتم رشه برشاشة يدوية تعمل بالضغط أو مرشات بمحرك بمعدل ١ لتر لكل ١٥-١٠ متر مربع وفق الجرعات التالية:

• الحشرات الطائرة (الآفات المأكلية):
استعمل محلول ٠.٥-١% (٥٠-١٠٠ ملم لكل ١٠ لترات من الماء) وذلك حسب أهمية الآفة ومن ثم رش على الأسطح (الجدران، الأسطح الأفقية، الستائر الخ.)، يوصى بأعلى جرعة لمكافحة الذباب.

• الأماكن الخارجية:
استعمل محلول ٠.٥-١% (٥٠-١٠٠ ملم لكل ١٠ لترات ماء) على الجدران الخارجية وحدائق المنازل وتحت السياج والشجيرات الخ. ولمكافحة المساحات الخضراء يوصى برش النباتات الخضراء بالكامل في وجب أي تسرب.

• الحشرات الزاحمة:
استعمل محلول ٠.٥-١% (٥٠-١٠٠ ملم لكل ١٠ لترات من الماء) حسب نوع الآفة وأهميتها ومن ثم رش على الأسطح والشقوق وحواف الجدران الخ. هذا ويوصى بأعلى جرعة لمكافحة الصراصير.

• الأماكن الخارجية:
استعمل محلول ٠.٥-١% (٥٠-١٠٠ ملم لكل ١٠ لترات من الماء) على الجدران الخارجية والأسطح الجائبة والحدائق المنزلية الخ. يمكن خلط ديدينا بنسبة ٣-٥% مع مذيئات أساهيا جلاليكو (٣٠٠-٥٠٠ ملم لكل ١٠٠ لتر من المذيب) وذلك عند استعماله في معدات تضييئية حارة أو باردة بنسبة ٠.٥-١% (٥٠-١٠٠ لتر من المحلول لكل هكتار سطحي أو ٠.٥-٢ لتر لكل مساحة بحجم ١٠٠٠ م^٣).

الضمان:
تضمن الشركة المنتجة ثبات المواصفات الكيميائية والفيزيائية لهذا المبيد وسلامة عبواته الأصلية في التخزين العمادي طيلة فترة صلاحيته تحت ظروف دولة الإمارات العربية المتحدة.

تاريخ الإنتاج:
تاريخ الانتهاء:
رقم التسجيل:

Manufacturing date:

Expiry date:

Batch number:

MATERIAL SAFETY DATA SHEET

Completion Date: August 2015, revision 6.0

1. IDENTIFICATION OF THE MIXTURE AND COMPANY**1.1 - Product identifier**Trade name: **DEADYNA®**

Ministry of Health Registration no. 17674

1.2 - Relevant identified uses of the substance or mixture and uses advised against
Pyrethroid liquid pesticide in aqueous microemulsion for household and civil use.**Uses advised against: Do not use in agriculture.****1.3 - Information on the supplier of the material safety data sheet****BLEU LINE S.r.l.** Via Virgilio, 28 - Z.I. Villanova 47122 Forlì (FC) Tel (+39) 0543.754430 Fax (+39) 0543.754162**Expert technician to have drawn up the SDS:** bleuline@bleuline.it**1.4 - Emergency Telephone Number**

If you feel ill, contact one of the following poison control centres:

Hospital	City	Address	Postal Code	Telephone
Foggia Univ. Hospital	Foggia	V.le Luigi Pinto, 1	71122	0881-732326
"A. Cardarelli" Hospital	Naples	Via A. Cardarelli, 9	80131	081-7472870
CAV Policlinico "Umberto I"	Rome	V.le del Policlinico, 155	00161	06-49978000
CAV Policlinico "A. Gemelli"	Rome	Largo Agostino Gemelli, 8	00168	06-3054343
"Careggi" Hospital - Medical Toxicology Unit	Florence	Largo Brambilla, 3	50134	055-7947819
CAV - National Toxicological Information Centre	Pavia	Via Salvatore Maugeri, 10	27100	0382-24444
Niguarda Ca' Granda Hospital	Milan	Piazza Ospedale Maggiore, 3	20162	02-66101029
"Papa Giovanni XXIII" Hospital	Bergamo	Piazza OMS, 1	24127	800883300

2. IDENTIFICATION OF HAZARDS**2.1. Classification of the substance or mixture**

The product is classified as a hazardous mixture in accordance with the provisions of Regulation (EC) 1272/2008 (CLP) (as amended). The product therefore requires a material safety data sheet that complies with the provisions of Regulation (EC) 1907/2006 as amended.

Any additional information regarding health and/or environmental hazards are provided in section 11 and 12 of this SDS.

2.1.1 Regulation 1272/2008 (CLP) as amended

Classification and hazard statements:

Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

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2.2. Label elements

Hazard labelling pursuant to Regulation (EC) 1272/2008 (CLP) as amended.

Hazard pictograms:



Signal words: Danger

Hazard statements:

- H318 Causes serious eye damage.
 H400 Very toxic to aquatic life (hazardous for the aquatic environment-acute hazard, cat. 1).
 H410 Very toxic to aquatic life with long lasting effects (hazardous for the aquatic environment-chronic hazard, cat. 1).

Contains: CALCIUM DODECYLBENZENE SULFONATE, LINEAR

Precautionary statements:

- P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of the reach of children.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P391 Collect spillage.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CONTROL CENTER or a doctor.
 P501 Dispose of contents/container to hazardous or special waste collection points.

2.3 - Other hazards

Based on available data, the product does not contain PBT or vPvB substances in a percentage greater than 0.1 %.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Information not relevant.

3.2 Mixtures

Chemical description: Pesticide and coformulants in mixture.

Contains:

CHEMICAL NAME	CONC.	CLASSIFICATION 1272/2008 (CLP)
CYPERMETHRIN CAS 52315-07-8 EINECS 257-842-9 EU INDEX 607-421-00-4 Reg no.: absent	6.85%	Acute Tox 4 H302 Acute Tox 4 H332 STOT SE 3 H335 Aquatic Acute 1 H400 M=1000 Aquatic Chronic 1 H410 M=1000
TETRAMETHRIN CAS 7696-12-0 EINECS 231-711-6 EU INDEX // Reg n° : 05-2116382403-48-0000	1.25 %	Aquatic Acute 1 H400 M=10 Aquatic Chronic 1 H410 M=10
CALCIUM DODECYLBENZENE SULFONATE, LINEAR CAS 26264-06-2 EINECS 247-557-8 EU INDEX // Reg n° : 01-2119560592-37-XXXX	< 5%	Eye Dam. 1 H318 Skin Irrit. 2 H315 Aquatic Chronic 3 H412

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2-ETHYLHEXANOL CAS 104-76-7 EINECS 203-234-3 EU INDEX //	< 5%	Acute Tox. 4 H332 Eye Irrit. 2 H319 Skin Irrit. 2 H315 STOT SE 3 H335
POLYARYL PHENOL ETHOXYLATE CAS 99734-09-5 EINECS // EU INDEX // Reg n° : //	< 5%	Aquatic Chronic 3 H412

The full text of the hazard statements (H) is provided in section 16 of the SDS.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General measures:	In cases of doubt, or if symptoms persist, seek medical care, by providing the information contained in the label and in this SDS. In the case of accident, first aid must be carried out by trained personnel to prevent further complications or damage to the injured person.
Eye exposure:	Remove contact lenses, if present and easy to do. Wash thoroughly with possibly running water, with eyelids open, for at least 15'; therefore protect your eyes with sterile gauze or a clean, dry handkerchief. SEEK MEDICAL AID. Do not use eye drops or ointments of any kind before visiting or consulting an ophthalmologist.
Skin exposure:	Remove/Take off immediately all contaminated clothing. Wash body parts that have come into contact with the product with plenty of soap and water.
Inhalation:	Take outdoors and leave to rest. If the problem persists, seek medical advice.
Ingestion:	Seek immediate medical advice and show the SDS. Do not induce vomiting in order to avoid the risk of aspiration through the airways.

4.2 Most important symptoms and effects, both acute and delayed

For symptoms and effects due to the substances contained, see chapter 11.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment and control of vital functions.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Dry powder, CO₂, water mist, foam.

Unsuitable extinguishing media: Full water jet. Water is not effective to extinguish the fire, but it can be used to cool the closed containers exposed to the flame, preventing bursts and explosions.

5.2 Special hazards arising from the substance or mixture

Unusual fire and explosion hazards: In the event of fire, emission of toxic gases and irritant fumes. Overpressure may be created in containers exposed to fire with the danger of explosion.

5.3 Advice for firefighters

Protective equipment: Normal garments for firefighting, such as self-contained open-circuit compressed air breathing apparatus (EN 137), fire retardant clothing (EN469), protective gloves for firefighters (EN 659) and boots for firefighters (HO A29 or A30).

Special Firefighting Procedures: Contain the spread. Stay upwind. Avoid breathing fumes. Cool containers exposed to fire with water mist. Avoid that extinguishing water is dispelled into the environment.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Stop the leak if there is no danger.

Wear appropriate protective devices (including the personal protective equipment referred to in section 8 of the material safety data sheet) to prevent contamination of skin, eyes and clothing. These instructions are applicable to both non-emergency personnel and emergency responders.

6.2 Environmental precautions

Keep the product away from drains, rivers and sea waters to avoid environmental pollution (if need be, inform the competent authorities).

6.3 Methods and material for containment and cleaning up

Soak up the spilled product in a suitable container. Assess the compatibility of the container to use with the product, referring to section 10. Absorb the remaining product with inert absorbent.

Ventilate the area affected by the leak adequately. Check for incompatibility with the material of the containers in section 7. The disposal of the contaminated material must be done in accordance with the provisions under point 13.

6.4 Reference to other sections

Information concerning the individual protection and disposal are provided in sections 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle the product after consulting all the other sections of this safety data sheet. Avoid dispelling the product in the environment. Do not eat, drink or smoke during use. Take off contaminated clothing and protective equipment before access to areas where food is eaten.

7.2 Conditions for safe storage, including any incompatibilities

Keep in closed original containers, away from food and drinks, and in a place not accessible to children and pets. Possibly store at a temperature between 5°C and 30°C.

7.3 Specific end use(s)

Information not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

In the workplace environment there are no occupational exposure thresholds and/or biological thresholds either for the active ingredient in the preparation or for the coformulants with hazardous characteristics. For further information, see section 16 (Notes). In the case of occupational exposure to the preparation, wear personal protective equipment listed below.

8.2 Exposure controls

General precautions:	Use the mixture according to the instructions contained in this safety data sheet. Use personal protective equipment listed in this section.
Respiratory protection:	In scarcely ventilated environments in which it is deemed that high concentrations of mixture may be present, protect the airways adequately (mask with type-A filter).
Hand protection:	Use waterproof gloves resistant to chemicals (EN 374).
Eye protection:	Use shielded safety glasses in case of possible contact with eyes. Ensure the availability of showers and eye washes to be used in case of emergency.
Skin protection:	Wear protective lab coats.

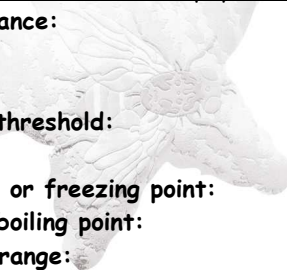
Environmental exposure controls

Emissions from manufacturing processes, including those from ventilation equipment, should be controlled for the purposes of compliance with regulations on environmental protection.

Product residues must not be emptied without control in waste water or into watercourses.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties



Appearance:	Liquid
Colour:	Amber
Odour:	Typical
Odour threshold:	n/a
pH:	n/a
Melting or freezing point:	n/a
Initial boiling point:	n/a
Boiling range:	n/a
Flash point:	> 61°C (closed cup)
Evaporation rate:	n/a
Flammable solids and gases:	n/a
Lower flammable limit:	n/a
Upper flammable limit:	n/a
Lower explosive limit:	n/a
Upper explosive limit:	n/a
Vapour pressure:	n/a
Vapour density:	n/a
Relative density:	1.04 g/ml (at 20°C)
Solubility:	Forms emulsion in water
Partition coefficient: n-octanol/water:	n/a
Autoignition temperature:	n/a
Decomposition temperature:	n/a
Viscosity:	n/a
Explosive properties:	n/a
Oxidising properties:	n/a

9.2 Other information

Information not available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

There are no particular dangers of reaction with other substances under normal conditions of use.

10.2 Chemical stability

Stable under normal conditions of use, and storage.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Avoid overheating, electrostatic charges and any source of ignition.

10.5 Incompatible materials

Information not available.

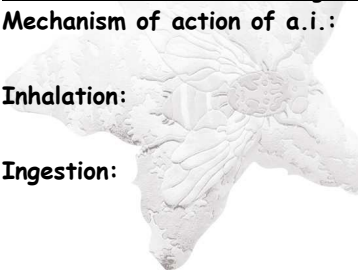
10.6 Hazardous decomposition products

The thermal decomposition causes the formation of hazardous compounds.



11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects



Mechanism of action of a.i.:	Cypermethrin and tetramethrin (pyrethroids) act on the central and peripheral nervous system at the level of neuronal membranes, resulting in the closing of sodium channels.
Inhalation:	In the case of long exposure, irritation of the respiratory system, headache, nausea, drowsiness, and dizziness.
Ingestion:	May cause irritation of the digestive mucous membranes, hypersalivation, nausea, vomiting, diarrhoea, abdominal pain, depression of the central nervous system, muscle spasms, seizures, shortness of breath; the ingestion of liquid can cause the formation of droplets that, entering into the lungs, can cause chemical pneumonia.
Skin contact:	In the case of frequent and prolonged contact, persistent irritation and dermatitis.
Eye exposure:	Persistent redness and conjunctival irritation, corneal injuries.
Toxicological data:	<u>Active ingredients:</u> Cypermethrin: Oral LD ₅₀ (rat) 287 mg/kg; Acute dermal LD ₅₀ (rat) >2000 mg/kg; Inhalation LC ₅₀ (rat) (4h) 3.28 mg/l. Tetramethrin: Acute oral LD ₅₀ (rat) >2000 mg/kg; Acute dermal LD ₅₀ (rat) >2000 mg/kg; Inhalation LC ₅₀ (rat) >5.63 mg/l.

12. ECOLOGICAL INFORMATION

The mixture is highly toxic to aquatic organisms and may cause long-term negative effects on the aquatic environment.

12.1 toxicity

Active ingredients: **Cypermethrin** LC₅₀ (fish) 0.0028 mg/l (96h); LC₅₀ (Daphnia magna) 0.0003 mg/l (48h). **Tetramethrin:** LC₅₀ (fish) 0.033 mg/l (96h); EC₅₀ (Daphnia magna) 0.47 mg/l (48h); EC₅₀ (shellfish) 1.36 mg/l (72h).

12.2 Persistence and biodegradability

Cypermethrin: not readily biodegradable

12.3 Bioaccumulation potential

Cypermethrin: BCF: 1204 mg/l
Log Pow: 5.3-5.6 (25°C)

12.4 Mobility in soil

Information not available.

12.5 Results of PBT and vPvB assessment

Based on available data, the product does not contain PBT or vPvB substances in a percentage greater than 0.1 %.

12.6 Other adverse effects

Information not available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

General considerations: Recover if possible. Operate in accordance with existing local and national provisions. Containers, even if completely emptied, must not be dispersed in the environment. If they contain residues, they must be classified, stored and sent to a suitable treatment plant. For non-professional use, the completely empty container can be eliminated with household waste.

Classification: The classification of waste is an obligation of the producer thereof. Possible EWC codes: 07 04 13 (solid wastes containing dangerous substances), 16 03 05 (organic wastes containing dangerous substances).

14. TRANSPORT INFORMATION14.1. UN Number

ADR/RID, IMDG and IATA: 3082

14.2. UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cypermethrin, Tetramethrin)
 IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N. O. S. (Cypermethrin, Tetramethrin)
 IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N. O. S. (Cypermethrin, Tetramethrin)

14.3. Transport hazard classes

ADR/RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9

14.4. Packing group

ADR/RID, IMDG and IATA: III

14.5. Environmental hazards

ADR/RID: Hazardous for the environment.

IMDG: Marine Pollutant.

IATA: Hazardous for the environment.

14.6. Special precautions for user

ADR/RID: HIN - Kemler: 90

Limited
Quantities 5 LTunnel restriction
code (E)
 Special Provision: -
 IMDG: EMS: F-A, S-F
Limited
Quantities 5 L

IATA: Cargo:

Maximum
quantity: 450 LPackaging
Instructions: 964

Pass.:

Maximum
quantity: 450 LPackaging
Instructions: 964

Special instructions:

A97, A158,
A19714.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Information not relevant.

15. REGULATORY INFORMATION15.1 Safety, health and environmental regulations/legislation specific for the substance or mixtureSeveso Category: 9 i)Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006:

Product: Point 3

Substances in Candidate List (Art. 59 REACH):

none

Substances subject to authorisation (Annex XIV REACH):

none

Substances subject to export notification Reg. (EC) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Health controls

Information not available.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture and the substances contained in it.

16. OTHER INFORMATION**General considerations:**

The information provided in this safety data sheet corresponds to the current state of our knowledge and experience of the product, and is not exhaustive. Unless otherwise specified, it applies to the product as such and in conformity with specifications. In the case of combinations or mixtures thereof, make sure that no new hazard may arise. However, it is responsibility of the user to make sure that the information is suitable and complete in relation to the particular use to be made of the product. It does not relieve the user of the product from complying with all the legislative, administrative and regulatory provisions that apply to the product, to the health and safety of workers and to environmental protection. For more information regarding the mixture, refer to the label thereof placed on the package

Revision Number:**6.0.****Completion Date:****August 2015.****Text of the hazard statements (H) referred to in sections 2-3 of the SDS:**


Acute Tox 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity category 3
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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Legend:

- 
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 - CAS NUMBER: Chemical Abstracts Service number
 - EC50: Concentration that gives effect to 50% of the population subject to testing
 - EC NUMBER: Identification Number in ESIS (European Inventory of Existing Commercial Chemical Substances)
 - CLP: EC Regulation 1272/2008
 - DNEL: Derived no effect level
 - EmS: Emergency Schedule
 - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 - IATA DGR: Regulation for dangerous goods transport of the International Air Transport Association
 - IC50: Inhibitory concentration for 50% of the population subject to testing
 - IMDG: International maritime code for the transport of dangerous goods
 - IMO: International Maritime Organization
 - INDEX NUMBER: Identification number in Annex VI of the CLP
 - LC50: Lethal concentration 50%
 - LD50: Lethal dose 50%
 - OEL: Occupational Exposure Level
 - PBT: Persistent, bioaccumulative and toxic according to REACH
 - PEC: Predicted environmental concentration
 - PEL: Predicted exposure level
 - PNEC: Predictable no-effect concentration
 - REACH: EC Regulation 1907/2006
 - RID: Regulation for the international carriage of dangerous goods by train
 - TLV: Threshold limit value
 - TLV CEILING: Concentration that must not be exceeded at any time during working exposure.
 - TWA STEL: Short-term exposure limit
 - TWA: Weighted mean exposure limit
 - VOC: Volatile organic compound
 - vPvB: Very persistent and very bioaccumulative according to REACH
 - WGK: Water hazard class (Germany).

Reference Regulations

The provisions set out by the following European regulations have been complied with:

- Regulation (EC) 1272/2008 of the European Parliament (CLP);
- Directive 98/24/EC (protection of the health and safety of workers from the risks related to chemical agents at work) transposed by Legislative Decree 81/2008;
- Regulation (EC) 1907/2006 (REACH);
- Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP);
- Regulation (EC) 453/2010 of the European Parliament;
- GESTIS substances database - IFA (Institute für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung).

Notes (paragraph 8):

TLV-TWA (Threshold Limit Value - Time Weighted Average): weighted limit values in 8 hours. **TLV-STEL** (Threshold Limit Value - Short Time Exposure Limit), maximum allowed value for short exposures.

Section 8 refers to ACGIH (American Conference of Governmental Industries Hygienists). The data relating to the threshold limit values (TLV-TWA) are taken from the supplement to Vol. 3, No. 1 of the Journal of Industrial Hygienists (AIDII) published in 2014, and refer to 2014 ACGIH values.

Changes with respect to the previous version

Changes were made to the following sections:

01 / 02 / 03 / 04 / 05 / 06 / 07 / 08 / 09 / 11 / 12 / 14 / 15 / 16.

Other information:

This sheet was drawn up in collaboration with Bioikòs Ambiente S.r.l., with registered office at No. 99 of Via Rivani, BOLOGNA (Tel: (+39) 051 5878211).

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