



Revision 1.0 of September, 22 2015

MATERIAL SAFETY DATA SHEET

according to the regulation 453/2010 Annex II

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

1.1 - Product details

Trade name: MASTERCID MICRO Recording Office of Health: N. 20154

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

Insecticide - acaricide, concentrated microencapsulated

1.3 - Details of the supplier of the safety data sheet

Manufacturer/Supplier: ORMA S.r.l. - Via Saba, 4 - 10028 Trofarello TO

Tel. +39/011.64.99.064 Fax +39/011.68.04.102

Qualified technician on drafting the MSDS: aircontrol@ormatorino.it

1.4 - Emergency telephone number:

+39/011.6499064 (ORMA, office hours) For urgent information, **call a Poison Centre** opened 24 hours a day (ex. Centro Antiveleni Ospedale Niguarda, Milano +39/02.66101029)

SECTION 2: HAZARDS IDENTIFICATION

Classification according the CLP Regulation N. 1272/2008 and subsequent modifications and adjustments

Aquatic Acute 1 H400 Aquatic Chronic 2 H411

2.2 - Label elements

Hazard labelling of the preparation according to CLP Regulation N. 1272/2008 and subsequent modifications and adjustments:





WARNING

Hazard statements (H):

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements (P):

P102: Keep out of reach of children.

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

P273: Avoid release to the environment.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.





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P308+P313: IF exposed or concerned: Get medical advice/attention.

P391: Collect spillage.

P501: Dispose of contents/container to an approved waste disposal facility.

2.3 - Other hazards

n.a.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>3.1 - Substances:</u> Not pertinent information.

3.2 - Mixture: It contains

Name	Conc.	Classification 1272/2008 (CLP)	
CYPERMETHRIN (CIS/TRANS 40/60) CAS 52315-07-8 EINECS 257-842-9 EU INDEX 607-421-00-4	8,00%	ACUTE TOX. 4 H302 ACUTE TOX. 4 H332 STOT SE 3 H335 AQUATIC ACUTE 1 H400 AQUATIC CHRONIC 1 H410	
PBO EINECS 200-076-7 CAS 51-03-6	6,0%	Aquatic Acute 1 H400 Aquatic Chronic 1 H410	
TETRAMETHRIN CAS: 7696-12-0 CE: 231-711-6 N. REG. 05-2116382403-48-XXXX	2,0%	Aquatic Acute 1 H400 Aquatic Chronic 1 H410	
ACETOPHENONE CAS 98-86-2 CE 202-708-7 INDEX 606-042-00-1	< 5,0%	ACUTE TOX. 4 H302 Eya dam./irrit. 2A H319	
CITRIC ACID CAS 5949-29-1 CE 201-069-1	< 1,0%	Eya dam,/irrit. 2A H319	
1,2-BENZOISOTIAZOLIN-3-ONE CAS 2634-33-5 CE 220-120-9 INDEX 613-088-00-6	< 1,0%	ACUTE TOX. 4 H302 SKIN CORR,/IRRIT. 2 H315 Sens. Skin 1 H317 Eye dam./irrit. 1 H318 Aquatic Acute 1 H400	

The full text of Hazards phrases (H) is specified in section 16.

SECTION 4: FIRST-AID MEASURES

4.1 - Description of first-aid measures

<u>General information:</u> if symptoms persist, seek medical care, giving the information contained in the label and in this sheet. In case of accident, the first-aid measure should be performed by trained personnel, in order to avoid the injured further complication or damages.

After eye contact: Rinse opened eye with water for several minutes and get medical advice. Do not use eye drops and ointments before medical advice.

After skin contact: Immediately wash with plentiful running water.

After inhalation: remove the patient to fresh air; consult get medical advice if necessary.

After swallowing: get medical advice, showing the safety sheet. Do not induce vomiting.





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4.2 - Main symptoms and effects, both acute and retarded

See section 11.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 - Extinguishing agents:

Suitable extinguishing agents: CO2, dry chemical extinguisher, sand.

Unsuitable extinguishing agents: Water with full jet. Water is not effective for fire-extinguishing, however it can be used to cool down containers exposed to flames, in order to prevent bursts and explosions.

5.2 - Special hazards arising from the substance or mixture

Particular fire dangers: In case of fire, toxic gas and irritating vapours emission.

5.3 - Advice for firefighters

Protective equipment: Wear suitable rebreather (especially in indoor locals) and complete protection outfit. Special procedures: Contain the spread. Stay upwind. Avoid to breathe vapours. Cool down the containers exposed to fire with nebulized water. Avoid extinguishing water to release to the environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 -Personal precautions, protective equipment and emergency procedures

Use suitable personal protective equipment (see section 8). Ensure adequate ventilation.

6.2 Environmental precautions

Keep the product away from sewers, fluvial and marine water to avoid environmental pollution (in that case, inform respective authorities).

6.3 - Methods and material for containment and cleaning up

In case of spreading on the ground, stem with sand or soil and collect with absorbing material. Dispose the collected material in disposal container (see Section 13).

6.4 - Reference to other sections

Further information regarding individual protection and disposal are reported in section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 - Precautions for safe handling

Ensure good ventilation. Avoid eating, drinking and smoking. Use suitable protective clothes (see Section 8). Wash with water and soap after handling: ensure good ventilation of the workplace. Do not smoke and do not use on naked flame.

7.2 - Conditions for safe storage, including any incompatibilities

Store in the original tightly sealed receptacle, away from food and beverages and away from the reach of children and domestic animals. Store in a cool location. Protect from direct sunlight. Where applicable, observe official regulations on storing packaging with pressurized containers.

7.3 - Specific end use(s)

No further relevant information available.





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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 - Control parameters

For further explanation, see section 16 (notes). In case of occupational exposure to the mixture wear personal protective equipment specified below.

8.2 - Exposure controls

General protective measures: Use the preparation according the indication contained in this safety sheet. Use individual protective devices recommended in this section.

Respiratory protection: In not so ventilated environments, where high percentage of product could be present, protect adequately the respiratory tract (mask with suitable filter against gas and solvents).

Protection of hands: Use impermeable and chemical substances resistant gloves (EN 374). **Eye protection:** Use safety glasses with side protection, in case of possible contact to eyes.

Body protection: If need use protective coats.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 - Information on basic physical and chemical properties

Form: dense liquid
Color: clear

Odor: characteristic

 pH:
 5.0

 flash point:
 $> 100^{\circ}$ C

 Boiling point
 $> 100^{\circ}$ C

 Density:
 1.0-1.1 mg/ml

SECTION 10: STABILITY AND REACTIVITY

10.1 - Reactivity

Not particular reactivity danger with other substances under normal operating conditions.

10.2 - Chemical Stability

Stable under normal operating and storage conditions.

10.3 - Possibility of hazardous reactions

No dangerous reactions known.

10.4 - Conditions to avoid

Avoid overheating, electrostatic charge, direct exposition to sun and any lighting source.

10.5 - Incompatible materials

No further relevant information available.

10.6 - Hazardous decomposition products

The thermal decomposition causes the formation of hazardous compounds.





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SECTION 11: TOXICAL INFORMATION

11.1 - Information on toxicological effects

Mechanism of action: The cypermethrin and tetramethrin (pyrethroid) act on the central and peripheral nervous system at the level of neuronal membranes resulting in a closure of sodium channels.

Inhalation For prolonged exposure, respiratory irritation and headaches, nausea,

drowsiness and dizziness.

Swallowing May cause irritation of the digestive mucosa, salivation, nausea, vomiting,

diarrhea, abdominal pain, depression of the central nervous system, muscle spasms, convulsions, dyspnea; swallowing the liquid may cause the formation

of droplets, entering into the lungs, may cause chemical pneumonitis.

Skin contact For frequent and prolonged contact, persistent irritation and dermatitis,

chapping and dryness of the skin.

Eyes contact Conjunctival redness and irritation, corneal damage

Toxicological data:

Cypermethrin: LD₅₀ acute rat 250-4123 mg/kg (oral); LD₅₀ >1600 rat; 2460 rabbit mg/kg (dermale acuta). It can be irritant for eyes and skin. **Tetramethrin :** LD50 (oral) : > 5000 mg / kg rat ; LD50 (Dermal) : > 2000 mg / kg rat; LC50 (Inhalation): > 5.63 mg / kg rat (4 hours). Acute dermal irritation rabbit : non-irritant ; Acute ocular irritation rabbit : nonirritant; skin sensitization: not sensitizing.

Piperonyl butoxide : LD50 Rat : 4570 mg / kg (oral) ; LD50 rabbit > 2000

mg / kg (dermal); Rat LC50 (4h)

5.9 mg / l inhalation. Not irritating to skin and eyes . Not sensitizing to skin. **Acetophenone :** LD50 oral rat : 815 mg / kg ; Dermal LD50 rabbit : 16,329 mg / kg . Slight irritation skin. Severe eye irritation .

Citric acid monohydrate: LD50 oral rat: 375 mg/kg. Irritating to eyes and

1,2- Benzoisotiazolin - 3-one : LD50 oral rat : 1020 mg / kg . May cause allergic skin reaction.

SECTION 12: ECOLOGICAL INFORMATION

The mixture is very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Set out below the toxicological information relating to the main substances in the preparation (section 3):

12.1 - Toxicity

Cypermethrin:

EC₅₀ 0.00027 mg/l daphnia magna (48h); LC₅₀ 0.00317 mg/l fish (96h); LC₅₀ 1.2-12 ug/l salmo salar (96h).

Tetramethrin:

fish LC50 0.004 mg / 1 (96h); EC50 Daphnia magna 0,11mg / 1 (48h).





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Piperonyl butoxide:

fish LC50 3.94 mg / 1 (96h);

EC50 Daphnia magna : 0.51 mg / 1 (48h); Crustaceans EC50 : 3.89 mg / 1 (72h).

Acetophenone:

LC50 Fish: 162 mg / 1 (96h)

1,2- Benzoisotiazolin - 3-one:

fish LC50: 0.8 mg / 1 (96h);

EC50 Daphnia magna : 4.4 mg / 1 (48 h) LC50 > 100 mg/l fish

12.2 - Persistence and degradability

Piperonyl butoxide: not readily biodegradable.

12.3 - Bioaccumulative potential

Piperonyl butoxide: BCF 91-260-380

12.4 - Mobility in soil

N.A.

12.5 - Results of PBT and vPvB assessment

No data available

12.6 - Other adverse effects

No further information available.

SECTION 13: DISPOSAL CONSIDERATION

13.1 - Waste treatment methods

General recommendation: Recover if possible. Operate according to local and national dispositions in force. Containers, even if completely emptied, must not be released to the environment. If they contain residues, they must be classified, stored and sent to an appropriate waste management plant. For a non-professional use the completely empty container can be disposed with household garbage, according to the local dispositions for waste separation.

Classification: The waste classification is an obligation of the manufacturer of the same. Waste codes number recommended: EWC 07 04 13 (solid waste containing dangerous substances), 16 03 05 (organic waste containing dangerous substances).

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

3082

14.2. UN proper shipping name

MATERIAL ENVIRONMENTALLY HAZARDOUS SUBSTANCE, liquid, (Cypermethrin and Tetramethrin)

14.3. Transport hazard class(es)

9





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14.4. Packing group

Ш

14.5. Environmental hazards

Marine pollutant

14.6. Special precautions for user

N.A.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

SECTION 15: REGULATORY INFORMATION

15.1 - Specific standards and legislation on health, safety and environment for the preparation/substance

Substances in Candidate List (Art. 59 REACH): None

Restrictions on the product or the substances contained according to EC-Regulation 1907/2006 Enclose XVII: section 3. Substances subject to authorization (REACH Enclose XIV): None. Seveso: 9 *i*)

Standard references: the instructions given by the following European legislation are respect:

- Directive 99/45/CE D.Lgs n° 65/2003;
- Directive 67/548/CE
- Regulation (CE) 1272/2008 (CLP);
- Directive 98/24/CE D.Lgs 81/2008;
- Regulation (CE) 1907/2006 (REACH);
- Regulation (CE) 790/2009 (I Atp. CLP);
- Regulation (CE) 453/2010;
- GESTIS IFA (Institute f
 ür Arbeitsschutz der Deutschen Gesetzlichen Unfalversicherung).

15.2 - Chemical safety assessment

A chemical safety assessment for the product has been not elaborated.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge and experience and it is not exhaustive. Unless contrary indications this information should be applied to the product as conform to its specifications. In case of mixing or combinations, assure, that a new danger could not appear. However the user have the responsibility for assuring the suitability and the completeness of the information, in particular referring to its proper use. It does not except in any case the user from observing all the laws and the regulations relating to the product, hygiene, workers safety and environmental protection. For further information regarding the preparation, consult the label on the packaging.

Hazard indication text (H) mentioned on sheet section 2-3

Aquatic Acute 1: Hazardous to the aquatic environment, acute toxicity Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment, chronic toxicity Category 1

Eye Damage 1: eye irritant; Category 1





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STOT SE 3: organ toxicity, Category 3
Asp. Toxicity 1: Asp hazard, Category 1.
Eye damage 2A: Eyes irritant,, Category 2A.
Sens. Skin 1: Skin irritant, Category 1.
Skin corr./irrit 2: Skin irritant,, Category 2.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

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.

Notes (paragraph 8):

TLV-TWA (Threshold Limit Value -Time Weighted Average): limit values weighted in 8 hours. TLV-STEL (Threshold Limit Value - Short Time Exposure Limit), the maximum value allowed for brief exposure. Section 8 is mentioned the ACGIH (American Conference of Governmental Hygienists Industries). Data for 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 2012 and refer to the values ACGIH 2012.

Dispose of contents/container according to the national regulation. Store in it is original packing, sealed in dry, cold and well ventilated closed place. Keep out of reach of children, Keep away from food Stuff stores and animal feeding stores.

JASO9SIG GNA 39AROTS

من الحتويات/الحاوية وفقا للقوانين الحلية. . هيوية المحلك محكمة العلام على معلى معلى جاف وبارد وجيد التهوية. . تال الميما المعلم المعلم المنافعة المعلم المالية وهو الميم المع<mark>مد المعمد ال</mark> التخزين والتخص من العبوات

IF ON SKIN: Atter handling and in case of contamination, thoroughly wash with soap IF SWALLED: Get medical advice/attention.

breathing. Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for IF ON EYE: Wash the eyes with running water for at least 15 minutes.

GIA TERIT

. الميارا و ن المسجاد بي الاستخدام <u>و في حالة التاوث، أسمجا المسجاد المسجاد مسنحا</u> . أعيد البرا عبد الحصل على الاستشارة / العناية الطبية .

. عيبلطا عيلنعاا /ق لشتسكا

ع<mark>ند استنشا هـــه: اخرج المريض في الهواء الطلق وضعه في وضع مريح للتنفس، احصل على</mark> مند ملامسة العين: إغسل العيون بعاء جاري لدة لا تقل عن ١٥ دقيقة.

Do not use in agriculture.

- In the case of zootechnical treatment ward off animals during treatment.
- the room thoroughly again. It the product is used in a place where you are staying long or in the bedrooms, ventilate

 - After handling and in case of contamination, thoroughly wash with soap and water.
 - Do not contaminate food during use, drinks or containers used to contain food.
 - Mot for use in concentrated form: follow the manufacturer's instructions.
 - Dispose of contents/container according to the national regulation.
 - → Collect spillage. → IF exposed or concerned: Get medical advice/attention.
 - Avoid release to the environment.
 - Do not eat, drink or smoke when using this product.
 - - ★ Keep out of reach of children.

→ Very toxic to aquatic organisms. It can cause long lasting negative effects to the aquatic

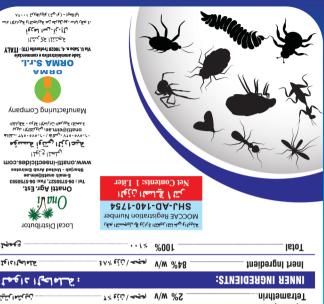
PRECAUTIONARY STATEMENTS:

♦ لا تستخسم في الزراعة.

عين والا تافاحساا

- ♦ في حالم معالجة الماكن تربية الحيوانات، اخرج الحيوانات من العنبر اثناء المالجة. بعدا مرة أخرى.
- إذا المنعون هو المعافرة عند المحمد عند المعاملة عند المعافرة المعافرة
- بعد الاستخدام وفي حالة التلوث، غسل اليدين بالصابون وألياه.
- ◄ لا تلوث الطعام اثناء الاستخدام، الشروبات او الحاويات التي تستخدم لتعبئة الطعام.
- ◄ لا يُستخدم في شكل مركز: اتبع تعليمات الصيانع.
- خلص من المحتويات \إلحاوية وفقا للقوانين المحلية. به اجمع ما یسرب من اکنتج.
- عند التعرض اه او التأثر به: احصل على الاستشارة\العناية الطبيّة.
- خبنب التخلص من المنتج في البيئة.
- ◄ ٢ تاكل او تشرب او تدخن عند استخدام هذا المنج.
- ل المفاكل ل المائتية ن الميم، للمفتحرة →
- ◄ سلم على على على المرسل المناس المناس المناس المنسل المن

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। देना है।			INNER INGREDIENTS:
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। कि. हो है। है ।			ACTIVE INGREDIENTS:

%91 abioitoen

Microencapsulated concentrated

MASTERCID MICRO

قريغده تاكل مسبك في خفافه و ياح به

استرسيد مايكرو

لبيمه ولاستخدامه فقط من قبل فنيين مرخصين أو تحت اشرافهم الفني المباشر المنحتسلا لليقه لليطا

For retails sale to and use only by certified Applicators or persons under their direct supervision. RESTRICTED USE PESTICIDE

Keep out of reach of Light الماها الماكان أعليم المنعب المنعب المنعب المنافئة إلى المنافئة ا

product will remail constant if it is stored in its original packing under good conditions

The Producing Company guaranties that the physical and chemical properties of the

red chicken mite

ants, tribolii, ticks &

throughout the period of validity in the conditions of United Arab Emirates.

Batch No.:

E/Date

P/Date

THEMETAL STANDARY

وهمجذا

treatment of absorbent

COCKLOSCUES SUG TOF THE

April 12 Minchel

Use Rate

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عليغشتا اهق

و الانتهاء:

ا و ۱۳۵۵ و ۱۳۵۵ و

facilities, transport facilities.

environments in general, areas and port

of cigarettes and tobacco, industrial

Site

التخزين العادي طيلة فترة صلاحتية فحت ظروف دولة الإمارات العربية المتحدة.

: ت الما المختسلا USES:

Pests

للداخل، من المستحسن رش المنتج على طول الحيط الخارجي بمسافة عرضها يصل إلى متر وعلى الجدران بارتفاع متر تتريبا تاريشما_{ً ال}هائوة والمراور بياء إلى المراكبة المراكبة المرادي المراكبة ال الثلاجات، اماكن تخزين النفايات، غرف النسيل، والاماكن التي تتواجد بها الحشرات وامكان مرورها

، نارعُلًا ، نجالط! ، تالنًا اضف ، يَهِ عَسَمًا هِ نَالا بَهُ عَدِلتا اللَّهُ إِلا أَنْ البِّبَا عِي عَلَيعنا يَعالَمنا بي المُعالِق الم لكل ١٠٠-٥١ متر من السطح. لمكن رشي **مناستيس عليكرو** بمضخات الضغط (اليدوية أو الكهربية) والرشاشات البخاخات فيدر ذلك بمعدر المنصفة الخليط

المنحتسالا المقيله

a meter away and the walls to a height of about 1 m. re-infestation of the interior, it is advisable to spray the product all along the outer perimeter of up to

Outside: apply on walls, windows, sills, eaves, fences, storage places of waste. In order to prevent bresence or the passage of insects. of furniture, kitchens, ovens, refrigerators, storage of waste places, washrooms, and where it is preferable the Indoor: spray especially the perimeter areas of the premises, the baseboards corners and crevices, the back

in the ratio of 1 liter of mixture every 10-15 meters of surface. Mastercid MICRO can be distributed with pressure pumps (manual or electric), atomizers, nebulizers, etc...

DIRECTIONS FOR USE:

ब्राट । द्रभा

IHd