

Version No	Date	Reason
1	19/09/2014	CLP (=EU GHS) adaption

MATERIAL SAFETY DATA SHEET



SECTION 1: Identification of the mixture and of the company/undertaking

1.1. Product identifier

Magnet™ MED

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

Plant protection product to control Mediterranean Fruit Fly (*Ceratitis capitata*) in ready-to-use bait formulation (RB).

1.3. Details of the supplier of the safety data sheet

Suterra Europe Biocontrol S.L.

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Tel: +34 93 662 55 44

Safety Data Sheet contact: sds@suterra.com

1.4. Emergency telephone number

+34 93 662 55 44 (Only manned during Spanish office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Dir. 99/45/CE

Irritant ; Dangerous for the environment

Reg. 1272/2008

Specific target organ toxicity – single exposure STOT SE 3, Hazardous to aquatic environment. Aquatic Chronic 1.

2.2. Label elements

Dir. 99/45/CE

Symbol



Indication of danger

Irritant.

Dangerous for the environment

Risk Phrases

R 41 Risk of serious damage to eyes.

R 37/38 Irritating to respiratory system and skin.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S 2 Keep out of the reach of children..

S 13 Keep away from food, drink and animal feedingstuffs.

S 20/21 When using do not eat, drink or smoke..

S 24 Avoid contact with skin..

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 29 Do not empty into drains.

S 39 Wear eye/face protection..

S 46 If swallowed, seek medical advice immediately and show this container or label.

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

MATERIAL SAFETY DATA SHEET



Reg. 1272/2008
GHS Pictograms



Signal Word

Danger

Hazard Statement

H318: Causes serious eye damage.
H335: May cause respiratory irritation.
H315: Causes skin irritation.

Precautionary
Statement
Prevention

H410: Very toxic to aquatic life with long lasting effects.
P101: If medical advice is needed, have product container or label at hand
P102: Keep out of reach of children.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352: IF ON SKIN: Wash with soap and water.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P501: Dispose of contents/container according to legislation into force.
EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

No further ones.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Component	CAS No.	EINECS No.	content (% p/p)	Classification
<u>Ammonium Acetate</u>	631-61-8	211-162-9	<25	(Dir. 67/548) : N: R51/53 (Reg. 1272/2008): H411 Toxic to aquatic life with long lasting effects
<u>Trimethylamine hydrochloride</u>	593-81-7	209-810-0	10<C<20	(Dir. 67/548) Xn: R20-37/38-41 (Reg. 1272/2008): DANGER H332 Harmful if inhaled H 335 May cause respiratory irritation H 315 Causes skin irritation H 318 Causes serious eye damage
<u>Putrescine</u>	110-60-1	203-782-3	<5	(Dir. 67/548) Xn, C:: R20/21/22-34-53 (Reg. 1272/2008): DANGER H332 Harmful if inhaled - H312 Harmful in contact with skin H302 Harmful if swallowed - H 314 Causes severe skin burns and eye damage H 413 May cause long lasting harmful effects to aquatic life
<u>Deltamethrin</u>	52918-63-5	258-256-6	0.03	(Dir. 67/548) : T;N: R23/25 – 50/53 (Reg. 1272/2008): Acute Tox. 3 H331 Acute Tox. 3 H301 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

* For the full text of of R phrases and H statements mentioned in this section, see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Eye contact: Rinse eyes with copious amounts of water. If irritation occurs seek medical advice

Skin contact: Wash hands thoroughly after handling traps. Prolonged contact with the adhesive may cause irritation. If irritation occurs seek medical advice.

Inhalation: If adverse effects are felt, remove patient to fresh air. If symptoms persist seek medical advice.

Ingestion: Do not induce vomiting. If feeling unwell after ingestion occurs seek medical advice

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

Due to formulation type, no acute or delayed effects are expected.

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

Due to the formulation type, it is not likely to need special or immediate medical treatments.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Dry Chemical, Foam, Carbon Dioxide (CO₂)

5.2. Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide and ammonia. Wear self contained breathing apparatus and protective clothing.

5.3. Advice for firefighters

Evacuate area of all unnecessary personnel. Use standard fire fighting procedures.

Please refer to section 8 "Exposure controls/personal protection "

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear rubber or PVC gloves, collect devices, and dispose. Protect from ignition.

6.2. Environmental precautions

Avoid dispersal of spilled material and runoff or contact with soil, water sources, drains and sewers .

Dispose according to local legislation.

6.3. Methods and material for containment and cleaning up

Due to the formulation type, it is enough to collect the devices and dispose according to the legislation into force.

6.4. Reference to other sections

Please refer to section 8 "Exposure controls/personal protection " and section 13 "Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Rubber or PVC gloves must be worn Do not eat, drink or smoke when handling the product. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in a cool, dry, well ventilated place. Store at temperature not above 40°C and out of direct sunlight. Avoid moisture. Store away from food and feed and where babies cannot access.

7.3. Specific end use(s)

Use only according to the label.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Deltametrin 0,02 mg/m³ (Bayer CropScience "Occupational Exposure Standard).

8.2. Exposure controls

Under normal conditions of use, personal protection procedures are limited to the normal practices of industrial and personal hygiene.

Eye /face protection: Wear protective eyewear

Skin protection: Not generally required under normal use conditions.

Hand protection: PVC or rubber gloves must be wear while handling the devices.

Respiratory protection: Not generally required under normal use conditions. Ensure adequate ventilation.

Environmental exposure controls: Avoid release to the environment.

Note: Personal protection information provided in this paragraph is based upon general information as to normal use conditions. Where special or unusual uses or conditions exist, it is suggested to seek for expert assistance of a qualified professional

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: White envelope-shape device.

Odour: Fishy, ammoniacal

Flammability: available data permit to conclude that the product does not show highly flammable properties.

Explosive properties: available data permit to conclude that the product does not show explosive properties.

Oxidising properties: available data permit to conclude that the product does not show oxidising properties

9.2. Other information

Not relevant due to the formulation type

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable in the normal temperature and pressure storage conditions.

10.2. Chemical stability

Unused devices are stables at temperatures below 40°C.

10.3. Possibility of hazardous reactions

No dangerous reactions are expected when the product is stored and handled according to the recommended instructions.

10.4. Conditions to avoid

Temperatures above 40°C.

10.5. Incompatible materials

Strong acids, strong oxidising agents

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Due to the peculiar formulation type, no studies have been performed with the formulated product. In the following table, toxicity data on components are listed.

Exposure is, under normal use conditions, limited to inhalation and skin contact. Due to the formulation type, no delayed or immediate effects are expected.

Rat LD ₅₀ oral	Deltamethrin	87 mg/kg bw
	Ammonium Acetate	-
	Trimethylamine hydrochloride	3090 mg/kg bw
	Putrescine	463 mg/kg bw (females)
Rat LD ₅₀ dermal	Deltamethrin	>2000 mg/kg bw
	Ammonium Acetate	-
	Trimethylamine hydrochloride	-
	Putrescine	1576 mg/kg pc (males)
Rat LC ₅₀ inhalation	Deltamethrin	0.6 mg/l (6 hour whole-body exposure, dust particulate aerosol)
	Ammonium Acetate	-
	Trimethylamine hydrochloride	No deaths after 8hour-exposure in saturated atmosphere
	Putrescine	R20
Dermal irritation	Deltamethrin	Non irritant
	Ammonium Acetate	Inhalation may be irritating to skin, eyes, throat and lungs
	Trimethylamine hydrochloride	Irritant
	Putrescine	R34
Eye irritation	Deltamethrin	Non irritant
	Ammonium Acetate	Inhalation may be irritating to skin, eyes, throat and lungs
	Trimethylamine hydrochloride	Not irritant
	Putrescine	Severe damage
Skin sensitization	Deltamethrin	Not a sensitizer (M&K, Buehler)
	Ammonium Acetate	No data
	Trimethylamine hydrochloride	No data
	Putrescine	Not available
Germ cell mutagenicity	Not expected. None of the components is classified as mutagenic.	
STOT-repeated exposure	Not expected. None of the components is classified as toxic for repeated toxicity.	
Carcinogenicity	Not expected. None of the components is classified as cancerogenic.	
Reproductive toxicity	Not expected. None of the components is classified as toxic for reproduction.	

SECTION 12: Ecological information**12.1. Toxicity**

Due to the particular type of formulation, no studies have been performed on the final product. Toxicity data here reported refer to the active substance deltamethrin.

LC ₅₀ 96 h	(<i>Oncorhynchus mykiss</i>): 0,00091 mg/l.
EC ₅₀ 48 h (<i>Daphnia magna</i>):	0,00091 mg/l
EC 50 (<i>Algae</i>)	> 9,1 mg/l

12.2. Persistence and degradability

Not relevant for the product

12.3. Bioaccumulative potential

Lepomis macrochirus (BCF): 1.400

12.4. Mobility in soil

Not relevant for the product

12.5. Results of PBT and vPvB assessment

Not relevant. No chemical safety report required.

12.6. Other adverse effects

No other expected.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Devices : collect and dispose according to the legislation into force

Package: Do not reuse. dispose according to the legislation into force

Disposal: according to the legislation into force

SECTION 14: Transport information**14.1. UN number**

UN 3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE

14.3. Transport hazard class(es)

9

14.4. Packing group

III

14.5. Environmental hazards

Yes

14.6. Special precautions for user

None

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

Not evaluated.

SECTION 15: Regulatory information

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

Product not included in Reg. (CE) n. 2037/2000, on substances that deplete the ozone layer.

Product not included in Reg. (CE) n. 850/2004, persistent organic pollutants.

Product not included in Reg. (CE) (CE) n. 689/2008, concerning the export and import of dangerous chemicals.

Product not included in Annex I of Dir. 96/82/CE on the control of major-accident hazards involving dangerous substances.

15.2. Chemical safety assessment

Not requested

SECTION 16: Other information

Symbols, R phrases and H statements mentioned in sections 3

T	Toxic
N	Dangerous for the environment
Xn	Harmful
C	Corrosive
R23/25	Toxic by inhalation and if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 20	Harmful by inhalation.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed..
R34	Causes burns.
R53	May cause long-term adverse effects in the aquatic environment.

While this information and recommendations set forth are believed to be accurate as of the date hereof, Suterra LLC and Suterra Europe Biocontrol S.L. make no warranty with respect hereto and disclaims all liability from reliance thereon.