



**ZOBELE
GROUP**

Safety Data Sheet

IC-REFL-MAT-BULK-THERMACELL BIG MAT PHIL



Safety Data Sheet dated 4/12/2014, version 5

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

1.1. Product identifier

Mixture identification:

Trade name: IC-REFL-MAT-BULK-THERMACELL BIG MAT PHIL

Trade code: ZSDS17002

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

Recommended use: Liquid insecticide

1.3. Details of the supplier of the safety data sheet

Company: ZOBELE HOLDING S.p.A

Via Fersina 4 38123 - Trento (Italy)

ZOBELE HOLDING S.p.A - Phone n.+390461/303700 (Working hours)

Competent person responsible for the safety data sheet: info@zobe.com

1.4. Emergency telephone number

ZOBELE HOLDING S.p.A - Phone n.+390461/303700 (Working hours)

SECTION 2: Hazards identification

The product contains the following active substances:

21,97%(w/w) d-Allethrin (CAS 231937-89-6)

2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

Xn Harmful

N Dangerous for the environment

R Phrases:


R20/22 Harmful by inhalation and if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66 Repeated exposure may cause skin dryness or cracking.

EC regulation criteria 1272/2008 (CLP):

 Warning, Acute Tox. 4, Harmful if inhaled.

 Warning, Acute Tox. 4, Harmful if swallowed.

 Warning, Aquatic Acute 1, Very toxic to aquatic life.

 Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects: No other hazards

2.2. Label elements

Symbols:



Warning



Safety Data Sheet

IC-REFL-MAT-BULK-THERMACELL BIG MAT PHIL

Hazard statements:

- H302+H332 Harmful if swallowed or if inhaled.
- 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.
- P270 Do not eat, drink or smoke when using this product.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P331 Do NOT induce vomiting.
- P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

The packing must have tactile indications of danger for blind people.

Contents:

- d-Allethrin
- Hydrocarbons, C12-C16, isoalkanes, cyclic <2% aromatics
- Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

Special provisions according to Annex XVII of REACH and subsequent amendments: None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 60% - < 70%	d-Allethrin;(Py namin forte)	Index number: 006-025-00-3 CAS: 231937-89-6 EC: 209-542-4	3.1/4/Inhal Acute Tox. 4 H332 3.1/4/Oral Acute Tox. 4 H302 4.1/A1 Aquatic Acute 1 H400 4.1/C1 Aquatic Chronic 1 H410 Xn,N; R20/22-50/53
>= 20% - < 25%	Hydrocarbons , C12-C16, isoalkanes, cyclic <2% aromatics	EC: 927-676-8 REACH No.: 01-2119456377-30	3.10/1 Asp. Tox. 1 H304 EUH066 Xn; R65-66
>= 5% - < 7%	Hydrocarbons , C11-C13, isoalkanes,	CAS: 246538-78-3 EC: 920-901-0 REACH No.: 01-2119456810	3.10/1 Asp. Tox. 1 H304 EUH066 Xn; R65-66



Safety Data Sheet

IC-REFL-MAT-BULK-THERMACELL BIG MAT PHIL

	<2% aromatics	-40	
--	------------------	-----	--

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

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

In case of Ingestion:

Give nothing to eat or drink.

Do not under any circumstances induce vomiting. **OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.**

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.



Safety Data Sheet

IC-REFL-MAT-BULK-THERMACELL BIG MAT PHIL

- Use appropriate respiratory protection.
See protective measures under point 7 and 8.
- 6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
Wash with plenty of water.
- 6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
Use localized ventilation system.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.
- 7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
Hydrocarbons, C12-C16, isoalkanes, cyclic <2% aromatics
TLV TWA - 200 mg/m³
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics - CAS: 246538-78-3
TLV TWA - 1200 mg/l
DNEL Exposure Limit Values
N.A.
PNEC Exposure Limit Values
N.A.
- 8.2. Exposure controls
Eye protection: Not needed for normal use. Anyway, operate according good working practices.
Protection for skin: Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Protection for hands: Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
Respiratory protection: Use adequate protective respiratory equipment.



Safety Data Sheet

IC-REFL-MAT-BULK-THERMACELL BIG MAT PHIL

Thermal Hazards:None
Environmental exposure controls:None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour:	Insecticide liquid on paper cardboard
Odour:	Characteristic
Odour threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	About 0,900g/ml
Solubility in water:	Immiscible
Solubility in oil:	Good
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.

9.2. Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

SECTION 10: Stability and reactivity

10.1. Reactivity	Stable under normal conditions
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	None
10.4. Conditions to avoid	Stable under normal conditions.
10.5. Incompatible materials	None in particular.
10.6. Hazardous decomposition products	None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:N.A.

Toxicological information of the main substances found in the mixture:d-Allethrin;(Pynamin forte); -
CAS: 231937-89-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 900 mg/kg



**ZOBELE
GROUP**

Safety Data Sheet

IC-REFL-MAT-BULK-THERMACELL BIG MAT PHIL

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 3.85 mg/l - Duration: 4h

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics - CAS: 246538-78-3

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat 5000 mg/m³ - Duration: 8h

Test: LC50 - Route: Oral - Species: Rat 5000 mg/kg

Test: LC50 - Route: Skin - Species: Rabbit 5000 mg/kg

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

d-Allethrin;(Pynamin forte); (RS)-3-allyl-2-methyl-4-oxocyclopent-2-enyl (1R,3R;1R,3S)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate - CAS: 231937-89-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.134 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 0.047 mg/l - Duration h: 48

12.2. Persistence and degradability

d-Allethrin;(Pynamin forte)

Biodegradability: Non-readily biodegradable - Test: N.A. - Duration: N.A. - %: N.A. -

Notes: N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.



Safety Data Sheet

IC-REFL-MAT-BULK-THERMACELL BIG MAT PHIL

SECTION 14: Transport information

14.1. UN number		
ADR-UN number:	3077	
IATA-Un number:	3077	
IMDG-Un number:	3077	
14.2. UN proper shipping name		
ADR-Shipping Name:	Environmentally hazardous substance, solid, N.O.S (d-Allethrin). Limited quantity	
IATA-Technical name:	Environmentally hazardous substance, solid, N.O.S (d-Allethrin). Limited quantity	
IMDG-Technical name:	Environmentally hazardous substance, solid, N.O.S (d-Allethrin). Limited quantity	
14.3. Transport hazard class(es)		
ADR-Class:	9	
IATA-Class:	9	
IMDG-Class:	9	
14.4. Packing group		
ADR-Packing Group:	III	
IATA-Packing group:	III	
IMDG-Packing group:	III	
14.5. Environmental hazards		
Marine pollutant:	Marine pollutant	
14.6. Special precautions for user		
IMDG-Technical name:	Environmentally hazardous substance, solid, N.O.S (d-Allethrin). Limited quantity	
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		No

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n.1272/2008 (CLP), Regulation (CE) n.790/2009.

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

Provisions related to directives 82/501/EC(Seveso), 96/82/EC(Seveso II):

Products belongs to category: 9i.

15.2. Chemical safety assessment No

SECTION 16: Other information

Text of phrases referred to under heading 3:

R20/22 Harmful by inhalation and if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



**ZOBELE
GROUP**

Safety Data Sheet

IC-REFL-MAT-BULK-THERMACELL BIG MAT PHIL

R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.

H332 Harmful if inhaled.
H302 Harmful if swallowed.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H304 May be fatal if swallowed and enters airways.

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification
SECTION 15: Regulatory information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold
CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date.
It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to
the specific use intended.

This MSDS cancels and replaces any preceding release.