

# SAFETY DATA SHEET

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** ThermaCELL C15 Cartridge

### Other means of identification

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Repellant, Pest, Non-Aerosol

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Name** The Schawbel Corp.

**Supplier Address** 26 Crosby Drive  
Bedford  
MA  
01730  
US

**Supplier Phone Number** Phone:703-741-5500  
Fax:781-541-6900  
Contact Phone781-541-6900

**Supplier Email** Schawbel@Thermacell.net

### Emergency telephone number

## 2. HAZARDS IDENTIFICATION


### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Germ cell mutagenicity	Category 1B
Flammable gases	Category 1
Simple asphyxiants	



**GHS Label elements, including precautionary statements****Emergency Overview**

<b>Signal word</b>	<b>Danger</b>	
<b>Hazard Statements</b> May cause genetic defects Extremely flammable gas May displace oxygen and cause rapid suffocation		
		
<b>Appearance</b> Clear	<b>Physical state</b> Compressed gas Gas	<b>Odor</b> Odorless

**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Fire**

Leaking gas fire: Do not extinguish, unless leak can be stopped safely  
Eliminate all ignition sources if safe to do so

**Precautionary Statements - Storage**

Store locked up  
Store in a well-ventilated place

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

0 % of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION

**Interactions with Other Chemicals**

Use of alcoholic beverages may enhance toxic effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 4. FIRST AID MEASURES

#### First aid measures

<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Skin contact</b>	In case of contact with liquefied gas, thaw frosted parts with lukewarm water. IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes. In the case of skin irritation or allergic reactions see a physician.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen.
<b>Ingestion</b>	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

#### Most important symptoms and effects, both acute and delayed

<b>Most Important Symptoms and Effects</b>	No information available.
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#### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	Treat symptomatically.
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## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO<sub>2</sub>).

### **Unsuitable extinguishing media**

DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

### **Specific hazards arising from the chemical**

Will be easily ignited by heat, sparks or flames. Will form explosive mixtures with air. Vapors from liquefied gas are initially heavier than air and spread along ground. Vapors may travel to source of ignition and flash back. Ruptured cylinders may rocket.

#### **Uniform Fire Code**

Flammable Liquefied Gas

### **Hazardous Combustion Products**

Carbon oxides.

### **Explosion Data**

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** Yes.

### **Protective equipment and precautions for firefighters**

DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED. Move containers from fire area if you can do it without risk.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk.

#### **Other Information**

Ventilate the area.

### **Environmental precautions**

#### **Environmental precautions**

Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Prevent spreading of vapors through sewers, ventilation systems and confined areas.

### **Methods and material for containment and cleaning up**

#### **Methods for containment**

If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed.

#### **Methods for cleaning up**

Do not direct water at spill or source of leak. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with eyes. Keep away from open flames, hot surfaces and sources of ignition. Contents under pressure. Do not puncture or incinerate cans.

### Conditions for safe storage, including any incompatibilities

**Storage** Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

**Incompatible Products** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<b>Physical state</b>	Compressed gas, Gas	<b>Odor</b>	Odorless
<b>Appearance</b>	Clear	<b>Odor Threshold</b>	No information available
<b>Color</b>	No information available		
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
pH	UNKNOWN	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	No data available	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	.601	None known	
Water Solubility	Insoluble	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	
Explosive properties	No data available		
Oxidizing properties	No data available		

### Other Information



Softening Point No data available  
VOC Content (%) No data available  
Particle Size No data available  
Particle Size Distribution

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible materials

None known based on information supplied.

### Hazardous Decomposition Products

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

#### Component Information

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

<b>Disposal methods</b>	This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).
<b>Contaminated Packaging</b>	Dispose of contents/containers in accordance with local regulations.
<b>US EPA Waste Number</b>	D001

### 14. TRANSPORT INFORMATION

#### DOT

<b>Proper Shipping Name</b>	CONSUMER COMMODITY
<b>Hazard Class</b>	ORM-D
<b>Description</b>	CONSUMER COMMODITY, ORM-D

#### TDG

<b>UN-No.</b>	UN2037
<b>Proper Shipping Name</b>	RECEPTACLES, SMALL, CONTAINING GAS
<b>Hazard Class</b>	2.1
<b>Packing Group</b>	NONE
<b>Description</b>	UN2037, RECEPTACLES, SMALL, CONTAINING GAS, 2.1, NONE

#### MEX

<b>UN-No.</b>	UN2037
<b>Proper Shipping Name</b>	RECEPTACLES, SMALL, CONTAINING GAS
<b>Hazard Class</b>	2.1
<b>Description</b>	UN2037, RECEPTACLES, SMALL, CONTAINING GAS, 2.1

#### ICAO

<b>UN-No.</b>	UN2037
<b>Proper Shipping Name</b>	RECEPTACLES, SMALL, CONTAINING GAS
<b>Hazard Class</b>	2.1
<b>Description</b>	UN2037, RECEPTACLES, SMALL, CONTAINING GAS, 2.1

#### IATA

<b>UN-No.</b>	UN2037
<b>Proper Shipping Name</b>	RECEPTACLES, SMALL, CONTAINING GAS
<b>Hazard Class</b>	2.1
<b>Description</b>	UN2037, RECEPTACLES, SMALL, CONTAINING GAS, 2.1, NONE

#### IMDG/IMO

<b>UN-No.</b>	UN2037
<b>Proper Shipping Name</b>	RECEPTACLES, SMALL, CONTAINING GAS
<b>Hazard Class</b>	2.1
<b>EmS-No.</b>	F-D, S-U
<b>Description</b>	UN2037, RECEPTACLES, SMALL, CONTAINING GAS, 2.1, NONE

#### RID

<b>UN-No.</b>	UN2037
<b>Proper Shipping Name</b>	RECEPTACLES, SMALL, CONTAINING GAS
<b>Hazard Class</b>	2.1
<b>Classification code</b>	5F



**Description** UN2037, RECEPTACLES, SMALL, CONTAINING GAS, 2.1

**ADR**

**UN-No.** UN2037  
**Proper Shipping Name** RECEPTACLES, SMALL, CONTAINING GAS  
**Hazard Class** 2.1  
**Classification code** 5F  
**Tunnel restriction code** (D)  
**Description** UN2037, RECEPTACLES, SMALL, CONTAINING GAS, 2.1

**ADN**

**UN-No.** UN2037  
**Proper Shipping Name** RECEPTACLES, SMALL, CONTAINING GAS  
**Hazard Class** 2.1  
**Classification code** 5F  
**Special Provisions** 191, 303, 344  
**Description** UN2037, RECEPTACLES, SMALL, CONTAINING GAS, 2.1  
**Limited Quantity** 1 L  
**Ventilation** VE01

## 15. REGULATORY INFORMATION

**International Inventories**

**TSCA** Complies  
**DSL** All components are listed either on the DSL or NDSL.  
**IECSC** -

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## 16. OTHER INFORMATION

<b>NFPA</b>	<b>Health Hazards</b> 2	<b>Flammability</b> 4	<b>Instability</b> 0	<b>Physical and Chemical Hazards</b> - SA
<b>HMIS</b>	<b>Health Hazards</b> 2 *	<b>Flammability</b> 4	<b>Physical Hazard</b> 0	

**Personal Protection**  
X

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

**Prepared By** Product Stewardship  
 23 British American Blvd.  
 Latham, NY 12110  
 1-800-572-6501

**Revision Date** 20-Nov-2014  
**Revision Note** No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing,





storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**







Safety Data Sheet  
IC-REFL-MAT-BULK-THERMACELL BIG MAT PHIL

Safety Data Sheet dated 18/10/2013, version 3

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: Solid 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.+39 0461/303700 (Working hours)  
Competent person responsible for the safety data sheet: info@zobebe.com
- 1.4. Emergency telephone number  
ZOBELE HOLDING S.p.A - Phone n.+39 0461/303700 (Working hours)

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture  
Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:  
Properties / Symbols:  
N Dangerous for the environment
- R Phrases:  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- EC regulation criteria 1272/2008 (CLP):  
 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



N

- Symbols:  
N Dangerous for the environment
- R Phrases:  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S Phrases:  
S2 Keep out of the reach of children.  
S29/56 Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.  
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Symbols:



- Warning
- Hazard statements:  
H400 Very toxic to aquatic life.  
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.  
P103 Read label before use.  
P273 Avoid release to the environment.  
P391 Collect spillage.  
P501 Dispose of contents/container in accordance with applicable regulations.
- Special Provisions: None
- 2.3. Other hazards  
vPvB Substances: None - PBT Substances: None  
Other Hazards: No other hazards

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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:

21,97 % d-Allethrin;(Pynamine forte); (RS)-3-allyl-2-methyl-4-oxocyclopent-2-enyl

(1R,3R;1R,3S)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate

Index number: 006-025-00-3, CAS: 231937-89-6, EC: 209-542-4

Xn,N; R20/22-50/53



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

7.69 % Hydrocarbons, C12-C16, isoalkanes,cyclic <2% aromatics

REACH No.: 01-2119456377-30, EC: 927-676-8

Xn; R65-66



2.6/3 Flam. Liq. 3 H226



3.10/1 Asp. Tox. 1 H304

1.92 % Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

REACH No.: 01-2119456810-40, EC: 920-901-0

Xn; R65-66



2.6/3 Flam. Liq. 3 H226



3.10/1 Asp. Tox. 1 H304



3.2/2 Skin Irrit. 2 H315

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SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:Wash with plenty of water and soap.

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

In case of Inhalation:Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed - None

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

Treatment: None

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

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.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

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

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**SECTION 7: Handling and storage**

- 7.1. Precautions for safe handling  
Avoid contact with skin and eyes, inhalation of vapours and mists.  
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

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**SECTION 8: Exposure controls/personal protection**

- 8.1. Control parameters  
Hydrocarbons, C12-C16, isoalkanes, cyclic <2% aromatics  
TLV TWA - 200 mg/m<sup>3</sup>  
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics  
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: No special precaution must be adopted for normal use.  
Protection for hands: Not needed for normal use.  
Respiratory protection: Not needed for normal use.  
Thermal Hazards: None  
Environmental exposure controls: None

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**SECTION 9: Physical and chemical properties**

- 9.1. Information on basic physical and chemical properties
- |   |  |
|---|--|
| Appearance and colour:                        | Blue cardboard insecticide mat weighing about 2100mg |
| 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:                             | N.A.   |
| Solubility in water:                          | Partially miscible                                   |
| Solubility in oil:                            | Partially miscible                                   |
| 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. |

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**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.

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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); (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) acute toxicity:

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

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat 5000 mg/m<sup>3</sup> - Duration: 8h  
Test: LC50 - Route: Oral - Species: Rat 5000 mg/kg  
Test: LC50 - Route: Skin - Species: Rabbit 5000 mg/kg

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

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

EYE RBT Non-irritant  
IHL RAT LC50 >3,875 mg/l  
ORL RAT LD50 900 mg/Kg  
SKN GPG Non-sensitiser  
SKN RBT Non-irritant  
SKN RBT LD50 2260 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.

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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 - None

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  
Biodegradability: Non-rapidly degradable - 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

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

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
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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)

15.2. Chemical safety assessment - No

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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.  
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.  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking  
SECTION 2: Hazards identification  
SECTION 3: Composition/information on ingredients  
SECTION 4: First aid measures  
SECTION 8: Exposure controls/personal protection  
SECTION 9: Physical and chemical properties  
SECTION 11: Toxicological information  
SECTION 12: Ecological information  
SECTION 14: Transport information  
SECTION 15: Regulatory information



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Safety Data Sheet  
IC-REFL-MAT-BULK-THERMACELL BIG MAT PHIL

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.