

Jolt^{25 EC}

Bahan Aktif : Deltametrin 25 g/l



New Formulation

- ✓ Better Knockdown Effect
- ✓ Active flies Repellent
- ✓ All - Pests



- No Mosquitos
- No Flies
- No Cockroaches
- No Ants





Petunjuk Penggunaan

| HAMA SASARAN | CARA APLIKASI | DOSIS/KONSENTRASI | | VOLUME SEMPROT |
|--|---------------------------------|------------------------------|---------------|----------------------|
| Nyamuk <i>Aedes Aegypti</i> <i>Culex</i> | Pengasapan (Thermal Fogging) | 18 - 72 ml/ha 4 - 14 ml/l | | 5l/ha |
| | Penyemprotan Residual | 2.5 ml/m ² | 2.5 - 10 ml/l | 50 ml/m ² |
| | | | | |
| Lalat <i>Musca Domestica</i> | Penyemprotan Residual | 2.5 ml/m ² | 2.5 - 10 ml/l | 50 ml/m ² |
| Semut <i>Anoplolepis gracilipes</i> | | 2.5 ml/m ² | 2.5 - 10 ml/l | 50 ml/m ² |
| Kecoa <i>Periplaneta Americana</i> <i>Blattella Germanica</i> | | 2.5 ml/m ² | 2.5 - 10 ml/l | 50 ml/m ² |

*Dosis menurut standar IPB

25 EC

Peringatan Bahaya

Mengakibatkan keracunan melalui mulut, kulit, mata, dan pernafasan. Berbahaya terhadap hewan peliharaan

Gejala Dini Keracunan

Bagian kulit yang terkena bahan ini, akan nampak seperti kebakar, pusing, sakit kepala, banyak mengeluarkan keringat, mual, muncet, pingsa. Bila salah satu atau lebih timbul gejala tersebut, segera berhenti bekerja dan lakukan tindakan pertolongan pertama dan pergilah ke dokter

Petunjuk keamanan

Jagan makan / minum atau merokok pada waktu bekerja. Pakailah sarung tangan, pelindung tubuh, topeng muka, gunakan pakaian berlengan panjang serta celana panjang, jauhkan dari nyala api pada waktu membuka wadah dan memindahkan pada waktu bekerja. cucilah tangan / tubuh dengan air bersih serta pakaian / perlengkapan lain yang terkena bahan ini. Simpanlah tertutup rapat di tempat sejuk, terkunci serta diluar jangkauan anak - anak, jauh dari bahan makanan dan jauh dari api. Jangan mengotori kolam, perairan dan saluran air dengan insektisida ini atau wadah bekasnya. Rusakan wadah bekas dan kemudian tanamlah sekurang - kurangnya 0,5 meter dalam tanah di tempat yang jauh dari sumber air.

Petunjuk Pertolongan Pertama Pada Keracunan

Tanggalkan pakaian yang terkena insektisida ini. Apabila kulit terkena, segera cuci dengan sabun dan air yang banyak. Apabila mata terkena, cucilah segera dengan air bersih selama sedikitnya 15 menit. Apabila tertelan dan penderita masih sadar, segera usahakan pemuntahan dengan memberikan segelas air hangat yang di beri 1 sendok garam dapur atau dengan cara menggelitik tenggorokan penderita dengan jari tangan yang bersih sampai cairan muntahan menjadi jernih. Jangan memberi sesuatu melalui mulut kepada penderita yang pingsan atau tidak sadar. Apabila terhisap segera bawa keruangan yang berudara sejuk / sega, apabila perlu berikan pernafasan buatan dengan pemberian oksigen

Perawatan Dokter

Perawatan dilakukan secara simptomatik sesuai dengan gejala yang timbul. Berikan vitamin E untuk mengurangi keracunan pada kulit. Bila badan terasa gemetar, tidak tenang dan kesadaran menurun dapat diberikan Diapexam

Member of :



**THE MINISTRY OF AGRICULTURE
OF
THE REPUBLIC OF INDONESIA**
**DIRECTORATE GENERAL
OF
AGRICULTURAL INFRASTRUCTURE AND FACILITIES**
DIRECTORATE OF FERTILIZER AND PESTICIDE

Jl. Harsono RM No. 3, D Building 8-9th Floor, Ragunan Pasar Minggu - Jakarta Selatan
Phone (62.21) 7890043 - 7810044, Fax (62.21) 7890043

Certificate

No. : 917/Kompes/2018

In accordance with the Decree of the Minister of Agriculture number
636/Kpts/SR.330/9/2018

We hereby certify that :

Company name : **PT. Kristalindo Karunia Internasional**
Company address : **Jl. Kelapa Puan Raya CA 24 No. 15
Gading Serpong - Tangerang
PAKULONAN BARAT, KELAPA DUA,
TANGERANG, BANTEN**

Is recognized as the registration holder of the following product :

Trade name : **JOLT 25 EC**
Common name and content of a.i. : **deltamethrin: 25 g/l**
Registration number : **RI. 06090120186047**

The product mentioned above is officially registered.

Expiry: 3 September 2023

Jakarta, 3 October 2018

Director,



Dr. Ir. Muhrizal Sarwani, MSc

This document is official document of Ministry of Agriculture which do not require signature
since being issued electronically from Sistem Informasi Manajemen Pelayanan Perizinan Pertanian (SIM-PPP).
Ministry of Agriculture is responsible for any information in this document.



MATERIAL SAFETY DATA SHEET
Jolt 25 EC

Revised : 15/05/19

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

| | |
|--------------------------------------|---|
| Trade Name | Jolt 25 EC |
| Company Name | PT Kristalindo Karunia Internasional |
| Company Address | Jl. Kelapa Puan Raya Blok CA 24/15, Gading Serpong, Pakulonan Barat Kelapa Dua, Tangerang |
| Telephone / Fax Number | 021-22052845 |
| Contact address in case of emergency | Jl. Kelapa Puan Raya Blok CA 24/15, Gading Serpong, Pakulonan Barat Kelapa Dua, Tangerang |
| Emergency telephone number | 021-22052845 |

2. COMPOSITION/INFORMATION ON INGREDIENTS

| | |
|-----------------------|--|
| Chemical Name (IUPAC) | (S)- α -cyano-3-phenoxybenzyl(1R,3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate |
| Common Name | Deltamethrin |
| Chemical Family | Synthetic Pyrethroid |
| Formula | $C_{22}H_{19}Br_2NO_3$ |
| Molecular Mass | 505,2 |

3. HAZARDS IDENTIFICATION

Hazard Identification of Active Ingredients : Toxic to aquatic life. Avoid contamination of surface water.

4. FIRST AID MEASURES

| | |
|--|--|
| Inhalation | Remove from contaminated area to fresh air. If any signs or symptoms occur or persist, seek medical advice. |
| Contact with skin | Remove contaminated clothing and wash skin thoroughly with soap and water. Launder contaminated clothing before reuse. Seek medical advice if irritation develops. |
| Splashes in eyes | Hold eyes open and flood with water for at least 15 minutes and seek medical advice. |
| Ingestion | Wash mouth with water. Give water to drink. Seek medical advice. |
| Information for doctor or other trained persons giving first aid | No specific antidote known. If the patient is conscious and is known to have swallowed deltamethrin, it may be useful to carry out gastric lavage. Activated charcoal compound. Symptomatic treatment and supportive therapy is indicated. |

5. FIRE FIGHTING MEASURES

| | |
|--|---|
| Suitable extinguishing media | Foam, CO ₂ , dry sand, chemical powders |
| Unsuitable extinguishing media | Jets of water |
| Special exposure hazard in a fire | As for all organic materials, combustion may lead to hazardous oxides of carbon and other toxic fumes. |
| Special protective equipment for fire-fighting | Wear a self contained respiratory apparatus. Wear protective clothing. |
| Other instructions | Cool fire-exposed containers with water fog and avoid environmental contamination with extinguishing water. |

6. ACCIDENT RELEASE MEASURES

| | |
|---------------------------|--|
| Personal precautions | Wear an air-supplied respirator or use adequate ventilation to prevent inhalation. Wear suitable protective clothing and eye protection to avoid contact with eyes and skin. |
| Environmental precautions | The material is toxic to fish and wildlife. Avoid soil and water contamination. |
| Methods for cleaning up | Soak up with and or other material. Collect thoroughly into suitable containers. Rinse the polluted area with water and suitable detergents. Collect waste waters for treatment. |

7. HANDLING AND STORAGE

Handling

| | |
|----------------------------|--|
| Special protection measure | When using, do not eat, drink or smoke. Wash hands and exposed skin before meals and after work. |
|----------------------------|--|

Storage

| | |
|--|---|
| Sensitivity to damp, light and Oxidation | Stable under normal atmospheric conditions when stored in closed containers. |
| Special storage requirements | Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children. Keep container in well ventilated place. |
| Storage conditions | Keep in dry and well ventilated place at low temperature. |
| Shelf life | At least 2 years if properly packed and stored. |
| Recommended packaging material | Carton, packed with polyethylene bag. |
| Supplier packaging | Carton, packed with polyethylene bag. |
| Packaging material to be avoided | No special material. |
| Incompatible substances | Sensitive to alkalis. Unstable in methyl and ethyl alcohol solution. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Limit values for workplace air

| | |
|---------------|------------------|
| STEL/TWA/IDLH | None established |
|---------------|------------------|

Personal protective equipment

| | |
|------------------------|---|
| Respiratory protection | Wear mask with filter for organic dust. |
| Hand protection | Wear suitable protective gloves. |
| Eye Protection | Wear safety glasses or goggles. |
| Skin protection | Wear suitable protective clothing. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------------|-------------------------------|
| Form | Liquid, clear |
| Colour and odour | Yellow to brownish - aromatic |
| pH | 4 - 7 |
| Boiling point/boiling range | NA |
| Melting point/melting range | NA |
| Flash point | >60 °C |
| Flammability (solid/gas) | NA |
| Auto flammability (ignition point) | Not auto flammable |
| Explosion hazard | Non explosive |
| Oxidizing properties | NA |
| Vapor pressure | NA |
| Relative density | 1,15 |
| Solubility in water | soluble |
| Solubility inorganic solvents | NA |

10. STABILITY AND REACTIVITY

| | |
|---------------------------------|--|
| Hazardous reactions | Unknown |
| Sensitivity to jolting | None |
| Condition to avoid | Avoid spark generation and flames. |
| Material to avoid | Strong alkali and acids. |
| Hazardous decomposition product | Combustion may lead to hazardous oxides of carbon and other toxic fumes. |

11. TOXICOLOGICAL INFORMATION

| | |
|------------------------------------|---|
| <i>Acute toxicity</i> | |
| LD ₅₀ oral (rat) | > 400 mg/kg |
| LD ₅₀ dermal (rat) | >2000 mg/kg |
| LC ₅₀ Inhalation (rat) | 2.2 mg/l |
| <i>Irritancy</i> | |
| Skin irritancy | Mild irritant (rabbit) |
| Eye irritancy | Mild irritant (rabbit) |
| Allergenic and sensitizing effects | Not considered to be a skin sensitizer (Guinea pig). |
| Chronic toxicity/Carcinogenicity | In 2-year feeding trials, the reported NEL (no effect level) was 12mg/kg diet for mice, and 2.1 mg/kg diet for rats. |
| Reproductive Effects | A reproductive 3-generation study in rats reported a reproductive NOEL to be greater than 2.5 mg/kg/day. Levels tested were 0, 0.1, 1.0 and 2.5 mg/kg/day. Oral administration of deltamethrin to mice on days 7 to 16 of gestation produced a dosage-related reduction of weight gain but no effect on the number of implants, fetal mortality, fetal weight or malformations. |
| Teratogenic Effects | There were no reported teratogenic effects in mice, rats and rabbits. Deltamethrin has no teratogenic activity. |
| Mutagenic Effects | There were no mutagenic effects in mice, rats and rabbits. Deltamethrin has no mutagenic activity. |

12. ECOLOGICAL INFORMATION

| | |
|---------------------------------------|--|
| <i>Persistence in the environment</i> | |
| Persistence and degradability | Deltamethrin is not persistent in the environment. In soil, it is destroyed by soil micro-organism and does not leach. |
| Bioaccumulative potential | BCF (Bio-concentration factor):1400 |

13. DISPOSAL CONSIDERATION

| | |
|---------------|---|
| Product | Wastes resulting from the use of this product may be disposed at an approved waste disposal facility. |
| Empty packing | Disposal or incineration methods based on state or local codes of practice and laws. |

14. TRANSPORT INFORMATION

| | |
|----------------------|--|
| UN Number | 3352 |
| Proper shipping name | Pyrethroid pesticide, liquid, toxic (Deltamethrin) |
| Hazard Class | 6.1 |
| Packing group | III |
| Marine pollutant | Yes |

15. REGULATORY INFORMATION

Symbol: Xn, Xi, N

Indication of danger: Harmful; Irritant; harmful to the environment.

Risk phrase(s):

R 20/22 Harmful by inhalation and if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

R 43 May cause sensitization by skin contact.

R 51 Toxic to aquatic organisms.

R 57 Toxic to bees.

Safety phrases:

S 2 Keep out of reach children.

S 23 Do not breathe vapor/spray/dust.

S 24/25 Avoid contact with skin and eyes.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.