

## TRIPSOL®

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**Section 1: Identification**

Product name                              : TRIPSOL®

Other means of identification      : ABAMECTIN + ACRINATHRIN 12.6/22.5 G/L EW

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

Recommended use                         : Can be used as insecticide only.

Restrictions on use                       : Use as recommended by the label.

**Manufacturer or supplier's details**

Company                                     : FMC New Zealand Ltd

Address                                      : 6 Clayton Street, Newmarket  
Auckland AKL 1023

Telephone                                    : 0800 658080

Telefax                                       : (09)-271-2961

Emergency telephone number      : +64-98010034 (CHEMTREC)  
0800 764 766 (NZ Poisons Information Centre)  
0800 111174 (24 hour Medical Emergency)  
0800 387668 (Transport Emergency)

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**Section 2: Hazard identification****HSNO Classification**

Acute toxicity (Oral)                     : 6.1C

Skin irritation                              : 6.3B

Eye irritation                                : 6.4A

Skin sensitisation                         : 6.5B

Toxic to Reproduction                    : 6.8B

Specific Target Organ Toxicity      : 6.9B  
(Oral)

Aquatic toxicity (Acute or                : 9.1A  
Chronic)

Ecotoxic to terrestrial inverte-        : 9.4A

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Carcinogenicity : 6.7B

Ecotoxic to terrestrial vertebrates : 9.3B

Toxic to Reproduction : 6.8C

### GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H301 Toxic if swallowed.  
H316 Causes mild skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H432 Toxic to terrestrial vertebrates.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H362 May cause harm to breast-fed children.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H441 Very toxic to terrestrial invertebrates.

Precautionary statements : P102 Keep out of reach of children.  
P103 Read label before use.

#### Prevention:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P263 Avoid contact during pregnancy/ while nursing.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.

#### Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
P302 + P352 IF ON SKIN: Wash with plenty of 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.  
P308 + P313 IF exposed or concerned: Get medical advice/

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attention.  
P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician.  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P330 Rinse mouth.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P391 Collect spillage.

### Storage:

P405 Store locked up.

### Disposal:

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

### Other hazards which do not result in classification

None known.

## Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
methyl octanoate	111-11-5	>= 20 -< 25
Distillates (petroleum), hydrotreated middle	64742-46-7	>= 1 -< 10
octan-1-ol	111-87-5	>= 2.5 -< 10
Acrinathrin	101007-06-1	>= 1 -< 2.5
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	>= 1 -< 2.5
Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-	114535-82-9	>= 1 -< 2.5
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	71751-41-2	>= 1 -< 2.5
propyl 4-hydroxybenzoate	94-13-3	>= 0.1 -< 0.25

## Section 4: First-aid measures

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.

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- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician.  
Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed or if inhaled.  
May be harmful in contact with skin.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs if swallowed.  
May cause damage to organs through prolonged or repeated exposure.
- Notes to physician : Treat symptomatically.
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### Section 5: Fire-fighting measures

- Suitable extinguishing media : Water spray  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Dry powder
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Fluorine compounds
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Hazchem Code : 3Z
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### Section 6: Accidental release measures

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- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.
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### Section 7: Handling and storage

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.
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### Section 8: Exposure controls/personal protection

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis

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Distillates (petroleum), hydrotreated middle	64742-46-7	WES-TWA (Mist)	5 mg/m <sup>3</sup>	NZ OEL
Further information: Sampled by a method that does not collect vapour.				
		WES-STEL (Mist)	10 mg/m <sup>3</sup>	NZ OEL

### Personal protective equipment

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection

Remarks : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### Section 9: Physical and chemical properties

Appearance : liquid

Colour : white

Odour : aromatic

pH : 6.09

Flash point : 109 °C

Self-ignition : 383 °C

Relative density : 0.9607 (20 °C)

Solubility(ies)  
Water solubility : Miscible

Viscosity  
Viscosity, dynamic : 58.3 mPa.s ( 20 °C)

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Surface tension : 38 mN/m

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**Section 10: Stability and reactivity**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong acids  
Strong bases  
Strong oxidizing agents

Hazardous decomposition products : Stable under recommended storage conditions.

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**Section 11: Toxicological information**
**Acute toxicity**

Harmful if swallowed or if inhaled.  
May be harmful in contact with skin.

**Product:**

Acute oral toxicity : LD50 (Rat): 310 - 366 mg/kg  
Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat, male): 2.12 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

LC50 (Rat, female): 1.31 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402

**Components:****methyl octanoate:**

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

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Method: OECD Test Guideline 436  
 Assessment: The substance or mixture has no acute inhalation toxicity  
 Remarks: Based on data from similar materials

**Distillates (petroleum), hydrotreated middle:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
 Method: OECD Test Guideline 401  
 Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.53 mg/l  
 Test atmosphere: dust/mist  
 Method: OECD Test Guideline 403  
 Assessment: The substance or mixture has no acute inhalation toxicity  
 Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
 Method: OECD Test Guideline 402  
 Remarks: Based on data from similar materials

**octan-1-ol:**

Acute oral toxicity : LD50 Oral (Rat, male and female): > 5,000 mg/kg  
 Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 2.05 mg/l  
 Exposure time: 4 h  
 Test atmosphere: vapour  
 Method: US EPA Test Guideline OPPTS 870.1300  
 Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
 Method: OECD Test Guideline 402  
 Assessment: The substance or mixture has no acute dermal toxicity

**Acrinathrin:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1.6 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

**Alcohols, C11-14-iso-, C13-rich, ethoxylated:**

Acute oral toxicity : LD50 (Rat): 500 - 2,000 mg/kg  
 Remarks: Based on data from similar materials

**Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-:**



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Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401

**abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Acute oral toxicity : LD50 (Rat): 340 mg/kg  
Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat, female): 0.074 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

LC50 (Rat, male): 0.052 - 0.54 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402

**propyl 4-hydroxybenzoate:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Remarks: no mortality

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Method : OECD Test Guideline 404  
Result : Skin irritation

Remarks : May cause skin irritation and/or dermatitis.

**Components:**

**Distillates (petroleum), hydrotreated middle:**

Species : Rabbit  
Result : No skin irritation  
Remarks : Based on data from similar materials

**octan-1-ol:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : slight irritation

**Acrinathrin:**

Result : No skin irritation

**Alcohols, C11-14-iso-, C13-rich, ethoxylated:**

Result : No skin irritation

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**Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

**abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Method : OECD Test Guideline 404  
Result : slight irritation

**propyl 4-hydroxybenzoate:**

Species : Rabbit  
Result : No skin irritation

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Result : Moderate eye irritation  
Method : OECD Test Guideline 405

Remarks : May cause irreversible eye damage.

**Components:**

**methyl octanoate:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
Remarks : Based on data from similar materials

**Distillates (petroleum), hydrotreated middle:**

Species : Rabbit  
Result : No eye irritation  
Remarks : Based on data from similar materials

**octan-1-ol:**

Species : Rabbit  
Result : Irritation to eyes, reversing within 21 days  
Method : OECD Test Guideline 405

**Acrinathrin:**

Result : No eye irritation

**Alcohols, C11-14-iso-, C13-rich, ethoxylated:**

Result : Irreversible effects on the eye

**Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-:**

Species : Rabbit

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Result : Eye irritation  
Method : OECD Test Guideline 405

### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Result : slight irritation  
Method : OECD Test Guideline 405

### **propyl 4-hydroxybenzoate:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Product:**

Method : OECD Test Guideline 406  
Result : May cause sensitisation by skin contact.

Remarks : Causes sensitisation.

#### **Components:**

##### **methyl octanoate:**

Test Type : Buehler Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.  
Remarks : Based on data from similar materials

##### **Distillates (petroleum), hydrotreated middle:**

Test Type : Buehler Test  
Species : Guinea pig  
Result : Does not cause skin sensitisation.  
Remarks : Based on data from similar materials

##### **octan-1-ol:**

Test Type : Maximisation Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.  
Remarks : Based on data from similar materials

##### **Acrinathrin:**

Result : Does not cause skin sensitisation.

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**Alcohols, C11-14-iso-, C13-rich, ethoxylated:**

Exposure routes : Skin contact  
 Result : Does not cause skin sensitisation.

**abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Method : OECD Test Guideline 406  
 Result : Not a skin sensitizer.

**propyl 4-hydroxybenzoate:**

Test Type : Local lymph node assay (LLNA)  
 Species : Mouse  
 Result : Does not cause skin sensitisation.

**Chronic toxicity****Germ cell mutagenicity**

Not classified based on available information.

**Components:****methyl octanoate:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
 Method: OECD Test Guideline 471  
 Result: negative  
 Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro  
 Method: OECD Test Guideline 473  
 Result: negative  
 Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test  
 Method: OECD Test Guideline 476  
 Result: negative  
 Remarks: Based on data from similar materials

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

**Distillates (petroleum), hydrotreated middle:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
 Test system: Chinese hamster ovary cells  
 Metabolic activation: with and without metabolic activation  
 Result: negative  
 Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Micronucleus test  
 Species: Mouse  
 Method: OECD Test Guideline 474  
 Result: negative  
 Remarks: Based on data from similar materials

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**octan-1-ol:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

**Acrinathrin:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Result: positive

Genotoxicity in vivo : Test Type: chromosome aberration assay  
Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

**abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Germ cell mutagenicity - Assessment : No genotoxic potential

**propyl 4-hydroxybenzoate:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negative

Test Type: Micronucleus test  
Method: OECD Test Guideline 487  
Result: negative

Test Type: gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: dominant lethal test  
Species: Rat (male)  
Application Route: Oral  
Method: OECD Test Guideline 478  
Result: negative  
Remarks: Based on data from similar materials

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Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

**Carcinogenicity**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated middle:**

Species : Mouse  
 Application Route : Dermal  
 Exposure time : 78 weeks  
 Result : negative  
 Remarks : Based on data from similar materials

**Acrinathrin:**

Species : Rat  
 Result : positive

Species : Mouse  
 Result : negative

**abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**Components:****methyl octanoate:**

Effects on fertility : Species: Rat, male and female  
 Application Route: Oral  
 Dose: 250, 500, 1000 mg/kg bw/day  
 General Toxicity - Parent: NOAEL: >= 1,000 mg/kg bw/day  
 General Toxicity F1: NOAEL: 1,000 mg/kg bw/day  
 Method: OECD Test Guideline 422  
 Result: negative  
 Remarks: Based on data from similar materials

Effects on foetal development : Species: Rat  
 Application Route: Oral  
 Dose: 100, 300, 1000mg/kg bw/day  
 General Toxicity Maternal: NOAEL: 1,000 mg/kg bw/day  
 Teratogenicity: NOAEL: 1,000 mg/kg bw/day  
 Embryo-foetal toxicity: NOAEL: 1,000 mg/kg bw/day  
 Method: OECD Test Guideline 414  
 Result: negative  
 Remarks: Based on data from similar materials

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

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**Distillates (petroleum), hydrotreated middle:**

- Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: Ingestion  
General Toxicity F1: NOAEL: 1,000 mg/kg bw/day  
Method: OECD Test Guideline 416  
Result: negative  
Remarks: Based on data from similar materials
- Effects on foetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: Dermal  
General Toxicity Maternal: LOAEL: 8 mg/kg bw/day  
Developmental Toxicity: LOAEL: 125 mg/kg bw/day  
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses  
Remarks: Based on data from similar materials

**octan-1-ol:**

- Effects on fertility : Test Type: one-generation reproductive toxicity  
Species: Rat, male and female  
Application Route: Oral  
Dose: 10, 100, 1000 mg/kg bw/day  
General Toxicity - Parent: NOAEL: 1,000 mg/kg bw/day  
General Toxicity F1: NOAEL: 1,000 mg/kg bw/day  
Result: negative
- Effects on foetal development : Species: Rat  
Application Route: Oral  
Dose: 0,130,650,975,1300mg/kgbw/day  
Duration of Single Treatment: 20 d  
General Toxicity Maternal: LOAEL: 650 mg/kg bw/day  
Embryo-foetal toxicity: NOAEL: 1,300 mg/kg bw/day  
Symptoms: Maternal effects  
Method: OECD Test Guideline 414
- Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

**Acrinathrin:**

- Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

**abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

- Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

**propyl 4-hydroxybenzoate:**

- Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male

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Application Route: Oral  
Dose: 98.0, 305.1 and 980.9 mg/kg b  
General Toxicity - Parent: NOAEL: 980.9 mg/kg bw/day  
Method: OECD Test Guideline 422  
Result: negative

Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Oral  
Dose: 100, 300, 1000 mg/kg bw/day  
General Toxicity Maternal: NOAEL: 1,000 mg/kg bw/day  
Embryo-foetal toxicity: NOAEL: 1,000 mg/kg bw/day  
Method: OECD Test Guideline 414  
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### STOT - single exposure

May cause damage to organs if swallowed.

#### Components:

##### **Acrinathrin:**

Remarks : No significant adverse effects were reported

##### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Remarks : No significant adverse effects were reported

##### **propyl 4-hydroxybenzoate:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Product:

Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

#### Components:

##### **methyl octanoate:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

##### **octan-1-ol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.



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### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Target Organs                : Nervous system  
Assessment                    : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

### **propyl 4-hydroxybenzoate:**

Assessment                    : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Repeated dose toxicity**

#### **Components:**

#### **methyl octanoate:**

Species                        : Rat, male and female  
NOAEL                         : 1000 mg/kg bw/day  
Application Route            : Oral  
Dose                            : 250, 500, 1000mg/kg bw/day  
Method                        : OECD Test Guideline 422

#### **Distillates (petroleum), hydrotreated middle:**

Species                        : Rat, male  
LOAEL                         : 125 mg/kg  
Application Route            : Oral - gavage  
Exposure time                : 90 d  
Remarks                      : Based on data from similar materials

#### **octan-1-ol:**

Species                        : Rat, male  
NOAEL                         : 1127 mg/kg bw/day  
Application Route            : Oral  
Exposure time                : 13 weeks  
Dose                            : 182, 374, 1127mg/kg/day

Species                        : Rat, female  
NOAEL                         : 1243 mg/kg bw/day  
Application Route            : Oral  
Exposure time                : 13 weeks  
Dose                            : 216, 427, 1243mg/kg/day

#### **Acrinathrin:**

Species                        : Rat  
                                      : 9 mg/kg  
Application Route            : Oral  
Exposure time                : 90 day  
Target Organs                : Skin, Nervous system

### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Species                        : Dog  
                                      : 0.5 mg/kg  
Application Route            : Oral

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Exposure time                   : 18 weeks  
Method                            : OECD Test Guideline 409  
  
Species                            : Rat  
                                      : 0.0027 mg/l  
Application Route               : Inhalation  
Exposure time                   : 30 d

### **propyl 4-hydroxybenzoate:**

Species                            : Rat, male and female  
NOAEL                             : >=1000 mg/kg bw/day  
Application Route               : Oral  
Exposure time                   : 90 d  
Dose                                : 100, 300, 1000 mg/kg bw/day  
Method                             : OECD Test Guideline 408

### **Aspiration toxicity**

Not classified based on available information.

### **Components:**

#### **Distillates (petroleum), hydrotreated middle:**

May be fatal if swallowed and enters airways.

#### **Acrinathrin:**

The substance does not have properties associated with aspiration hazard potential.

#### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

No aspiration toxicity classification

### **Further information**

#### **Product:**

Remarks                           : No data available

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## **Section 12: Ecological information**

### **Ecotoxicity**

#### **Product:**

Toxicity to fish                   : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.307 mg/l  
Exposure time: 96 h  
  
Toxicity to daphnia and other   : EC50 (Daphnia magna (Water flea)): 0.00644 mg/l  
aquatic invertebrates           Exposure time: 48 h  
  
Toxicity to algae/aquatic        : EC50 (Pseudokirchneriella subcapitata (green algae)): 60.8  
plants                               mg/l  
Exposure time: 72 h

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- Toxicity to soil dwelling organisms : LC50 (*Eisenia fetida* (earthworms)): 1,875 mg/kg  
Exposure time: 14 d
- Toxicity to terrestrial organisms : LD50 (*Coturnix japonica* (Japanese quail)): > 2,000 mg/kg
- LC50 (*Apis mellifera* (bees)): 0.153 µg/bee  
Exposure time: 48 h  
Remarks: Oral
- LC50 (*Apis mellifera* (bees)): 0.218 µg/bee  
Exposure time: 48 h  
Remarks: Contact

### **Components:**

#### **methyl octanoate:**

- Toxicity to fish : LC50 (*Leuciscus idus* (Golden orfe)): > 100 - 300 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: DIN 38412
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Crustaceans): > 10,000 mg/l  
Exposure time: 48 h  
Remarks: water accommodated fractions (WAF)
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 1.8 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211
- Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials
- NOEC (activated sludge): >= 1,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials
- Toxicity to soil dwelling organisms : NOEC (*Eisenia fetida* (earthworms)): >= 1,000 mg/kg  
Exposure time: 28 d  
Method: OECD Test Guideline 222  
Remarks: Based on data from similar materials

#### **Distillates (petroleum), hydrotreated middle:**

- Toxicity to fish : LL50 (*Pimephales promelas* (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: water accommodated fractions (WAF)
- Toxicity to daphnia and other aquatic invertebrates : EL50 (*Daphnia magna* (Water flea)): > 10,000 mg/l  
Exposure time: 48 h  
Remarks: water accommodated fractions (WAF)

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Toxicity to algae/aquatic plants : NOEL (Pseudokirchneriella subcapitata (microalgae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 10 mg/l  
Exposure time: 21 d

### octan-1-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 13.3 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 20 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC10 (Desmodesmus subspicatus (green algae)): 4.2 mg/l  
Exposure time: 48 h  
Test Type: static test

EC50 (Desmodesmus subspicatus (green algae)): 6.5 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

Toxicity to microorganisms : (Protozoa): 44 mg/l  
Exposure time: 72 h  
Test Type: Cell multiplication inhibition test  
Remarks: Based on data from similar materials

### Acrinathrin:

#### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10 - 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

### Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 100 - 500 mg/l  
Exposure time: 96 h

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.034 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.1  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): 70 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): 16 mg/kg  
Exposure time: 14 d

Toxicity to terrestrial organisms : LD50 (Apis mellifera (bees)): 0.00083 µg/bee  
Exposure time: 48 h

LD50 (Coturnix japonica (Japanese quail)): > 2,000 mg/kg

### **propyl 4-hydroxybenzoate:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 6.4 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 15.4 mg/l  
Exposure time: 48 h  
Method: ISO 6341

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 7.6 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 2.1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0.25 mg/l

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aquatic invertebrates (Chronic toxicity)      Exposure time: 21 d  
Method: OECD Test Guideline 211

Toxicity to microorganisms      :      NOEC (STP microorganisms):  $\geq 20$  mg/l  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

### Persistence and degradability

#### Components:

##### **methyl octanoate:**

Biodegradability      :      Inoculum: activated sludge  
Result: Readily biodegradable.  
Method: OECD Test Guideline 301C  
Remarks: Based on data from similar materials

##### **Distillates (petroleum), hydrotreated middle:**

Biodegradability      :      Result: Inherently biodegradable.  
Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

##### **octan-1-ol:**

Biodegradability      :      Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 82.2 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

##### **Acrinathrin:**

Biodegradability      :      Result: Not readily biodegradable.

Stability in water      :      Degradation half life: 1 d

##### **Alcohols, C11-14-iso-, C13-rich, ethoxylated:**

Biodegradability      :      Result: Readily biodegradable.  
Biodegradation:  $> 60$  %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E

##### **Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-:**

Biodegradability      :      Result: Not readily biodegradable.  
Biodegradation: 30 - 40 %  
Method: OECD Test Guideline 302B

##### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Biodegradability      :      Result: Not readily biodegradable.  
Remarks: It undergoes degradation in the environment and in waste water treatment plants.

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**propyl 4-hydroxybenzoate:**

Biodegradability : Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 91.5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

**Bioaccumulative potential****Components:****methyl octanoate:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 63  
Remarks: Based on data from similar materials

Partition coefficient: n-  
octanol/water : log Pow: 3.32

**Distillates (petroleum), hydrotreated middle:**

Partition coefficient: n-  
octanol/water : log Pow: 7 (20 °C)  
Method: QSAR

**octan-1-ol:**

Partition coefficient: n-  
octanol/water : log Pow: 3.5 (23 °C)  
pH: 5.7

**Acrinathrin:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-  
octanol/water : log Pow: 5.24 (25 °C)

**abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Bioaccumulation : Species: Danio rerio (zebra fish)  
Bioconcentration factor (BCF): 54  
Remarks: See section 9 for octanol-water partition coefficient.  
Bioaccumulation is unlikely.

Partition coefficient: n-  
octanol/water : log Pow: 5.5

**propyl 4-hydroxybenzoate:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-  
octanol/water : log Pow: 2.94 (37 °C)  
pH: 3

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### Mobility in soil

#### Components:

##### **Acrinathrin:**

Distribution among environmental compartments : Remarks: immobile

##### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Distribution among environmental compartments : Remarks: Mobile in soils

### Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life.  
Toxic to aquatic life with long lasting effects.

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## Section 13: Disposal considerations

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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## Section 14: Transport information

### International Regulations

#### **UNRTDG**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Abamectin, Acrinathrin)  
Class : 9  
Subsidiary risk : ENVIRONM.  
Packing group : III  
Labels : 9 (ENVIRONM.)

#### **IATA-DGR**

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Abamectin, Acrinathrin)  
Class : 9

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Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Abamectin, Acrinathrin)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### NZS 5433

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Abamectin, Acrinathrin)  
Class : 9  
Packing group : III  
Labels : 9  
Hazchem Code : 3Z

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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## Section 15: Regulatory information

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

#### HSNO Approval Number

HSR100716

### The components of this product are reported in the following inventories:

TCSI : Not in compliance with the inventory  
TSCA : Product contains substance(s) not listed on TSCA inventory.  
AICS : Not in compliance with the inventory

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- DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.
- (S)-A-CYANO-3-PHENOXYBENZYL (1R,3S)-2,2-DIMETHYL-3-[(Z)-2-[[2,2,2-TRIFLUORO-1-(TRIFLUOROMETHYL)ETHOXY]CARBONYL}VINYL]CYCLOPROPANECARBOXYLATE  
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)  
non-hazardous mixture of polyorganosiloxanes and fillers  
Oxirane, methyl-, polymer with oxirane, monobutyl ether  
high molecular weight polymeric emulsifier
- ENCS : Not in compliance with the inventory
- ISHL : Not in compliance with the inventory
- KECI : Not in compliance with the inventory
- PICCS : Not in compliance with the inventory
- IECSC : Not in compliance with the inventory
- NZIoC : Not in compliance with the inventory
- 

### Section 16: Other information

Date format : dd.mm.yyyy

#### Full text of other abbreviations

NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average

NZ OEL / WES-STEL : Workplace Exposure Standard - Short-Term Exposure Limit

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Pre-

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vention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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