# AMPLIGO.

| Version | Revision Date: | SDS Number: | This version replaces all previous versions. |
|---|---|---|---|
| 10.0 | 15.03.2019 | S1377529350 | |

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

### 1.1 Product identifier

| | | |
|---|---|---|
| Trade name | : | AMPLIGO. |
| Design code | : | A15397G |

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

| | | |
|---|---|---|
| Use of the Substance/Mixture | : | Insecticide |

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

| | | |
|---|---|---|
| Company | : | Syngenta SA (Pty) Ltd<br>P.O. Box 1044,<br>No. 4 Krokodildrift Avenue<br>Brits 0250 South Africa |
| Telephone | : | +27 12 250 6300 |
| Telefax | : | +27 12 250 3125 |
| E-mail address of person responsible for the SDS | : | sds.ch@syngenta.com |

### 1.4 Emergency telephone number

| | | |
|---|---|---|
| **Emergency telephone number** | : | +27 (0) 82 446 8946 (Griffon) |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

| | |
|---|---|
| Acute toxicity, Category 4 | H302: Harmful if swallowed. |
| Acute toxicity, Category 4 | H332: Harmful if inhaled. |
| Short-term (acute) aquatic hazard, Category 1 | H400: Very toxic to aquatic life. |
| Long-term (chronic) aquatic hazard, Category 1 | H410: Very toxic to aquatic life with long lasting effects. |

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :

Signal word : Warning

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.
H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH208 Contains 1,2-benzisothiazol-3-one. May produce an allergic reaction.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements :

**Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

**Response:**

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P391 Collect spillage.

**Disposal:**

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

Hazardous components which must be listed on the label:

lambda-cyhalothrin (ISO)

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Components**

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification | Concentration (% w/w) |
|---|---|---|---|

| | | | |
|---|---|---|---|
| chlorantraniliprole | 500008-45-7 | Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br><br>M-Factor (Acute aquatic toxicity): 10<br>M-Factor (Chronic aquatic toxicity): 10 | >= 2.5 - < 10 |
| lambda-cyhalothrin (ISO) | 91465-08-6<br>415-130-7<br>607-252-00-6 | Acute Tox. 3; H301<br>Acute Tox. 2; H330<br>Acute Tox. 3; H311<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br><br>M-Factor (Acute aquatic toxicity): 10,000<br>M-Factor (Chronic aquatic toxicity): 10,000 | >= 2.5 - < 10 |
| Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified | 64742-94-5<br>265-198-5<br>649-424-00-3<br>01-2119451151-53 | Asp. Tox. 1; H304<br>Aquatic Chronic 2; H411 | >= 2.5 - < 10 |
| 2,2-dichloro-1-(3-methyl-2,3-dihydro-1,4-benzoxazin-4-yl)ethanone | 99734-09-5 | Aquatic Chronic 3; H412 | >= 1 - < 2.5 |
| poly(oxy-1,2-ethanediyl), alpha-phosphono-omega-[2,4,6-tris(1-phenylethyl)phenoxy]- | 90093-37-1 | Eye Irrit. 2; H319 | >= 1 - < 10 |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5<br>220-120-9<br>613-088-00-6 | Acute Tox. 4; H302<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317<br>Aquatic Acute 1; H400 | >= 0.025 - < 0.05 |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.

If inhaled : Move the victim to fresh air.
If breathing is irregular or stopped, administer artificial respiration.

Keep patient warm and at rest.
Call a physician or poison control centre immediately.

In case of skin contact : Take off all contaminated clothing immediately.
Wash off immediately with plenty of water.
If skin irritation persists, call a physician.
Wash contaminated clothing before re-use.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses.
Immediate medical attention is required.

If swallowed : If swallowed, seek medical advice immediately and show this container or label.
Do NOT induce vomiting.

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

Symptoms : Aspiration may cause pulmonary oedema and pneumonitis.
Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours.

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

Treatment : Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.
Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Extinguishing media - small fires
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - large fires
Alcohol-resistant foam
or
Water spray

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).
Exposure to decomposition products may be a hazard to health.

### 5.3 Advice for firefighters

| | | |
|---|---|---|
| Special protective equipment for firefighters | : | Wear full protective clothing and self-contained breathing apparatus. |
| Further information | : | Do not allow run-off from fire fighting to enter drains or water courses.<br>Cool closed containers exposed to fire with water spray. |

## SECTION 6: Accidental release measures

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

| | | |
|---|---|---|
| Personal precautions | : | Refer to protective measures listed in sections 7 and 8. |

### 6.2 Environmental precautions

| | | |
|---|---|---|
| Environmental precautions | : | Prevent further leakage or spillage if safe to do so.<br>Do not flush into surface water or sanitary sewer system.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |

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

| | | |
|---|---|---|
| Methods for cleaning up | : | Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).<br>Clean contaminated surface thoroughly.<br>Clean with detergents. Avoid solvents.<br>Retain and dispose of contaminated wash water. |

### 6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

| | | |
|---|---|---|
| Advice on safe handling | : | No special protective measures against fire required.<br>Avoid contact with skin and eyes.<br>When using do not eat, drink or smoke.<br>For personal protection see section 8. |

### 7.2 Conditions for safe storage, including any incompatibilities

| | | |
|---|---|---|
| Requirements for storage areas and containers | : | No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. |

### 7.3 Specific end use(s)

| | | |
|---|---|---|
| Specific use(s) | : | For proper and safe use of this product, please refer to the |

approval conditions laid down on the product label.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational Exposure Limits**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---|---|---|---|---|
| chlorantraniliprole | 500008-45-7 | TWA | 5 mg/m3 | Syngenta |
| | 500008-45-7 | TWA | 10 mg/m3 (Total dust) | Supplier |
| | 500008-45-7 | TWA | 5 mg/m3 (Respirable dust) | Supplier |
| lambda-cyhalothrin (ISO) | 91465-08-6 | TWA | 0.04 mg/m3 (Skin) | Syngenta |
| Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified | 64742-94-5 | TWA | 8 ppm<br>50 mg/m3 | Supplier |

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|---|---|---|---|
| propane-1,2-diol | Workers | Inhalation | Long-term systemic effects | 168 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 10 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 30 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 10 mg/m3 |
| Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified | Industrial use | Dermal | Long-term systemic effects | 12.5 mg/kg |
| | Industrial use | Inhalation | Long-term systemic effects | 151 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 7.5 mg/kg |
| | Consumers | Oral | Long-term systemic effects | 32 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 7.5 mg/kg |

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

| Substance name | Environmental Compartment | Value |
|---|---|---|
| propane-1,2-diol | Fresh water | 260 mg/l |
| | Marine water | 26 mg/l |
| | Intermittent use/release | 183 mg/l |
| | Sewage treatment plant | 20000 mg/l |

| | | |
|---|---|---|
| | Marine sediment | 57.2 mg/kg |
| | Fresh water sediment | 572 mg/kg |
| | Soil | 50 mg/kg |

## 8.2 Exposure controls

**Engineering measures**

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards.
Where necessary, seek additional occupational hygiene advice.

**Personal protective equipment**

Eye protection : No special protective equipment required.

Hand protection

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : 0.5 mm

Remarks : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Remove and wash contaminated clothing before re-use.
Wear as appropriate:
Impervious clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Suitable respiratory equipment:
Respirator with a particle filter (EN 143)
The filter class for the respirator must be suitable for the maximum expected contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Filter type : Particulates type (P)

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment.
When selecting personal protective equipment, seek appropriate professional advice.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | | |
|---|---|---|
| Appearance | : | suspension |
| Colour | : | light beige to brown |
| Odour | : | aromatic |
| Odour Threshold | : | No data available |
| pH | : | 4 - 8<br>Concentration: 1 % w/v |
| Melting point/range | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flash point | : | Method: Pensky-Martens closed cup<br>does not flash |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Relative vapour density | : | No data available |
| Density | : | 1.08 g/cm3 |
| Solubility(ies)<br>Solubility in other solvents | : | No data available |
| Partition coefficient: n- | : | No data available |

| | | |
|---|---|---|
| octanol/water | | |
| Auto-ignition temperature | : | > 650 °C |
| Decomposition temperature | : | No data available |
| Viscosity | | |
| Viscosity, dynamic | : | 41.7 - 286 mPa.s (40 °C) |
| | | 56.1 - 349 mPa.s (20 °C) |
| Explosive properties | : | Not explosive |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |

**9.2 Other information**

| | | |
|---|---|---|
| Surface tension | : | 37.3 mN/m, 100 % w/v |

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

None reasonably foreseeable.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

| | | |
|---|---|---|
| Hazardous reactions | : | No dangerous reaction known under conditions of normal use. |

**10.4 Conditions to avoid**

| | | |
|---|---|---|
| Conditions to avoid | : | No decomposition if used as directed. |

**10.5 Incompatible materials**

| | | |
|---|---|---|
| Materials to avoid | : | None known. |

**10.6 Hazardous decomposition products**

| | | |
|---|---|---|
| Hazardous decomposition products | : | No hazardous decomposition products are known. |

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

| | | |
|---|---|---|
| Information on likely routes of exposure | : | Ingestion<br>Inhalation<br>Skin contact<br>Eye contact |

**Acute toxicity**

**Product:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat, female): 550 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat, male and female): > 2.91 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Assessment: The component/mixture is moderately toxic after short term inhalation. |
| Acute dermal toxicity | : | LD50 (Rat, male and female): > 5,000 mg/kg |

**Components:**

**chlorantraniliprole:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): > 5,000 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): > 5.2 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Assessment: The substance or mixture has no acute inhalation toxicity |
| Acute dermal toxicity | : | LD50 (Rat): > 5,000 mg/kg |

**lambda-cyhalothrin (ISO):**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat, female): 56 mg/kg<br><br>LD50 (Rat, male): 79 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat, male and female): 0.06 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist |
| Acute dermal toxicity | : | LD50 (Rat, female): 696 mg/kg<br><br>LD50 (Rat, male): 632 mg/kg |

**1,2-benzisothiazol-3(2H)-one:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): 1,020 mg/kg |

**Skin corrosion/irritation**

**Product:**

| | | |
|---|---|---|
| Species | : | Rabbit |
| Result | : | No skin irritation |

**Components:**

**chlorantraniliprole:**

Species : Rabbit
Result : No skin irritation

**lambda-cyhalothrin (ISO):**

Species : Rabbit
Result : No skin irritation
Remarks : May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

**1,2-benzisothiazol-3(2H)-one:**

Result : Irritating to skin.

**Serious eye damage/eye irritation**

**Product:**

Species : Rabbit
Result : No eye irritation

**Components:**

**chlorantraniliprole:**

Species : Rabbit
Result : No eye irritation

**lambda-cyhalothrin (ISO):**

Species : Rabbit
Result : No eye irritation

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

Species : Rabbit
Result : Eye irritation

**1,2-benzisothiazol-3(2H)-one:**

Result : Risk of serious damage to eyes.

**Respiratory or skin sensitisation**

**Product:**

Test Type : Buehler Test
Species : Guinea pig
Result : Did not cause sensitisation on laboratory animals.

**Components:**

**chlorantraniliprole:**

| | | |
|---|---|---|
| Species | : | Guinea pig |
| Result | : | Did not cause sensitisation on laboratory animals. |

**lambda-cyhalothrin (ISO):**

| | | |
|---|---|---|
| Test Type | : | Maximisation Test |
| Species | : | Guinea pig |
| Result | : | Does not cause skin sensitisation. |
| Test Type | : | Local lymph node assay (LLNA) |
| Species | : | Mouse |
| Result | : | Does not cause skin sensitisation. |

**1,2-benzisothiazol-3(2H)-one:**

| | | |
|---|---|---|
| Result | : | Probability or evidence of skin sensitisation in humans |

**Germ cell mutagenicity**

**Components:**

**chlorantraniliprole:**

| | | |
|---|---|---|
| Germ cell mutagenicity-Assessment | : | Animal testing did not show any mutagenic effects. |

**lambda-cyhalothrin (ISO):**

| | | |
|---|---|---|
| Germ cell mutagenicity-Assessment | : | Animal testing did not show any mutagenic effects. |

**Carcinogenicity**

**Components:**

**chlorantraniliprole:**

| | | |
|---|---|---|
| Carcinogenicity - Assessment | : | No evidence of carcinogenicity in animal studies. |

**lambda-cyhalothrin (ISO):**

| | | |
|---|---|---|
| Carcinogenicity - Assessment | : | No evidence of carcinogenicity in animal studies. |

**Reproductive toxicity**

**Components:**

**chlorantraniliprole:**

| | | |
|---|---|---|
| Reproductive toxicity - Assessment | : | Animal testing did not show any effects on fertility. |

**lambda-cyhalothrin (ISO):**

Reproductive toxicity - Assessment : No toxicity to reproduction

**STOT - single exposure**

**Components:**

**chlorantraniliprole:**

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

**STOT - repeated exposure**

**Components:**

**chlorantraniliprole:**

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

**Repeated dose toxicity**

**Components:**

**chlorantraniliprole:**

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

**Aspiration toxicity**

**Components:**

**chlorantraniliprole:**

No aspiration toxicity classification

**Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0141 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0.00139 mg/l<br>Exposure time: 48 h |

**Components:**

**chlorantraniliprole:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 13.8 mg/l<br>Exposure time: 96 h<br><br>LC50 (Lepomis macrochirus (Bluegill sunfish)): > 15.1 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0.0116 mg/l<br>Exposure time: 48 h |
| Toxicity to algae/aquatic plants | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): > 2 mg/l<br>Exposure time: 96 h<br><br>EC50 (Lemna gibba (gibbous duckweed)): > 2 mg/l<br>Exposure time: 14 d |
| M-Factor (Acute aquatic toxicity) | : | 10 |
| Toxicity to fish (Chronic toxicity) | : | NOEC: 0.11 mg/l<br>Exposure time: 90 d<br>Species: Oncorhynchus mykiss (rainbow trout) |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 0.00447 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br><br>NOEC: 0.0025 mg/l<br>Exposure time: 28 d<br>Species: Chironomus riparius (harlequin fly) |
| M-Factor (Chronic aquatic toxicity) | : | 10 |

**lambda-cyhalothrin (ISO):**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Leuciscus idus (Golden orfe)): 0.000078 mg/l<br>Exposure time: 96 h<br><br>LC50 (Ictalurus punctatus (channel catfish)): 0.00016 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0.00036 mg/l<br>Exposure time: 48 h<br><br>LC50 (Americamysis): 0.000007 mg/l<br>Exposure time: 48 h<br><br>EC50 (Hyallela azteca (Amphipod)): 0.000002 mg/l<br>Exposure time: 48 h |

| | | |
|---|---|---|
| Toxicity to algae/aquatic plants | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0.31 mg/l<br>Exposure time: 96 h |
| M-Factor (Acute aquatic toxicity) | : | 10,000 |
| Toxicity to microorganisms | : | EC50 (activated sludge): > 100 mg/l<br>Exposure time: 3 h |
| Toxicity to fish (Chronic toxicity) | : | NOEC: 0.000031 mg/l<br>Exposure time: 300 d<br>Species: Pimephales promelas (fathead minnow) |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 0.000002 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br><br>NOEC: 0.00022 µg/l<br>Exposure time: 28 d<br>Species: Americamysis |
| M-Factor (Chronic aquatic toxicity) | : | 10,000 |

**Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

**Ecotoxicology Assessment**

| | | |
|---|---|---|
| Chronic aquatic toxicity | : | Toxic to aquatic life with long lasting effects. |

**2,2-dichloro-1-(3-methyl-2,3-dihydro-1,4-benzoxazin-4-yl)ethanone:**

**Ecotoxicology Assessment**

| | | |
|---|---|---|
| Chronic aquatic toxicity | : | Harmful to aquatic life with long lasting effects. |

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

| | | |
|---|---|---|
| Toxicity to microorganisms | : | EC50 (Pseudomonas putida): > 1,000 mg/l |

**Ecotoxicology Assessment**

| | | |
|---|---|---|
| Acute aquatic toxicity | : | This product has no known ecotoxicological effects. |
| Chronic aquatic toxicity | : | This product has no known ecotoxicological effects. |

**1,2-benzisothiazol-3(2H)-one:**

**Ecotoxicology Assessment**

| | | |
|---|---|---|
| Acute aquatic toxicity | : | Very toxic to aquatic life. |

### 12.2 Persistence and degradability

**Components:**

**chlorantraniliprole:**

Biodegradability : Result: Not readily biodegradable.

**lambda-cyhalothrin (ISO):**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life (DT50): 7 d
Remarks: Product is not persistent.

### 12.3 Bioaccumulative potential

**Components:**

**chlorantraniliprole:**

Bioaccumulation : Remarks: Does not bioaccumulate.

**lambda-cyhalothrin (ISO):**

Bioaccumulation : Remarks: Lambda-cyhalothrin bioaccumulates.

### 12.4 Mobility in soil

**Components:**

**chlorantraniliprole:**

Distribution among environmental compartments : Remarks: immobile

**lambda-cyhalothrin (ISO):**

Distribution among environmental compartments : Remarks: immobile

Stability in soil : Dissipation time: 56 d
Percentage dissipation: 50 % (DT50)
Remarks: Product is not persistent.

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

**Components:**

**chlorantraniliprole:**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB)..

**lambda-cyhalothrin (ISO):**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB)..

### 12.6 Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer.
Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents.
Triple rinse containers.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

## SECTION 14: Transport information

### 14.1 UN number

**ADN** : UN 3082

**ADR** : UN 3082

**RID** : UN 3082

**IMDG** : UN 3082

**IATA** : UN 3082

### 14.2 UN proper shipping name

**ADN** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(CHLORANTRANILIPROLE AND LAMBDA-CYHALOTHRIN)

| | | |
|---|---|---|
| **ADR** | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORANTRANILIPROLE AND LAMBDA-CYHALOTHRIN) |
| **RID** | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORANTRANILIPROLE AND LAMBDA-CYHALOTHRIN) |
| **IMDG** | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORANTRANILIPROLE AND LAMBDA-CYHALOTHRIN) |
| **IATA** | : | Environmentally hazardous substance, liquid, n.o.s. (CHLORANTRANILIPROLE AND LAMBDA-CYHALOTHRIN) |

**14.3 Transport hazard class(es)**

| | | |
|---|---|---|
| **ADN** | : | 9 |
| **ADR** | : | 9 |
| **RID** | : | 9 |
| **IMDG** | : | 9 |
| **IATA** | : | 9 |

**14.4 Packing group**

**ADN**

| | | |
|---|---|---|
| Packing group | : | III |
| Classification Code | : | M6 |
| Hazard Identification Number | : | 90 |
| Labels | : | 9 |

**ADR**

| | | |
|---|---|---|
| Packing group | : | III |
| Classification Code | : | M6 |
| Hazard Identification Number | : | 90 |
| Labels | : | 9 |
| Tunnel restriction code | : | (-) |

**RID**

| | | |
|---|---|---|
| Packing group | : | III |
| Classification Code | : | M6 |
| Hazard Identification Number | : | 90 |
| Labels | : | 9 |

**IMDG**

| | | |
|---|---|---|
| Packing group | : | III |
| Labels | : | 9 |
| EmS Code | : | F-A, S-F |

**IATA (Cargo)**

| | | |
|---|---|---|
| Packing instruction (cargo aircraft) | : | 964 |
| Packing instruction (LQ) | : | Y964 |
| Packing group | : | III |
| Labels | : | Miscellaneous |

**IATA (Passenger)**

| | | |
|---|---|---|
| Packing instruction (passenger aircraft) | : | 964 |
| Packing instruction (LQ) | : | Y964 |
| Packing group | : | III |
| Labels | : | Miscellaneous |

### 14.5 Environmental hazards

**ADN**

| | | |
|---|---|---|
| Environmentally hazardous | : | yes |

**ADR**

| | | |
|---|---|---|
| Environmentally hazardous | : | yes |

**RID**

| | | |
|---|---|---|
| Environmentally hazardous | : | yes |

**IMDG**

| | | |
|---|---|---|
| Marine pollutant | : | yes |

### 14.6 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.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

| | | |
|---|---|---|
| Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals | : | Not applicable |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : | Not applicable |
| REACH - List of substances subject to authorisation (Annex XIV) | : | Not applicable |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer | : | Not applicable |
| Regulation (EC) No 850/2004 on persistent organic pollutants | : | Not applicable |
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) | : | Conditions of restriction for the following entries should be considered:<br>Number on list 3<br>styrene |

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

| | | Quantity 1 | Quantity 2 |
|---|---|---|---|
| E1 | ENVIRONMENTAL HAZARDS | 100 t | 200 t |
| 34 | Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d) | 2,500 t | 25,000 t |

**Other regulations:**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

## SECTION 16: Other information

**Full text of H-Statements**

| | | |
|---|---|---|
| H301 | : | Toxic if swallowed. |
| H302 | : | Harmful if swallowed. |
| H304 | : | May be fatal if swallowed and enters airways. |
| H311 | : | Toxic in contact with skin. |
| H315 | : | Causes skin irritation. |
| H317 | : | May cause an allergic skin reaction. |
| H318 | : | Causes serious eye damage. |
| H319 | : | Causes serious eye irritation. |
| H330 | : | Fatal if inhaled. |
| H400 | : | Very toxic to aquatic life. |
| H410 | : | Very toxic to aquatic life with long lasting effects. |
| H411 | : | Toxic to aquatic life with long lasting effects. |
| H412 | : | Harmful to aquatic life with long lasting effects. |

**Full text of other abbreviations**

| | | |
|---|---|---|
| Acute Tox. | : | Acute toxicity |
| Aquatic Acute | : | Short-term (acute) aquatic hazard |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |

| | | |
|---|---|---|
| Asp. Tox. | : | Aspiration hazard |
| Eye Dam. | : | Serious eye damage |
| Eye Irrit. | : | Eye irritation |
| Skin Irrit. | : | Skin irritation |
| Skin Sens. | : | Skin sensitisation |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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 Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

| **Classification of the mixture:** | | **Classification procedure:** |
|---|---|---|
| Acute Tox. 4 | H302 | Based on product data or assessment |
| Acute Tox. 4 | H332 | Based on product data or assessment |
| Aquatic Acute 1 | H400 | Based on product data or assessment |
| Aquatic Chronic 1 | H410 | Calculation method |

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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

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