

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**
**1.1. Product identifier**

Product form : Mixtures  
 Trade name : TALISMA EC  
 Product code : CA701822  
 Synonyms : Cypermethrin 80 g/L + PBO 228 g/L EC

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

Main use category : Professional use  
 Industrial/Professional use spec : Agriculture.  
 Pesticide  
 Use of the substance/mixture : Insecticide

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet**

Arysta LifeScience Benelux  
 Rue de Renory 26/1  
 B-4102 Ougrée - Belgium  
 T +32 (0)4 385 97 11 - F +32 (0)4 385 97 49  
[sdsin@arysta.com](mailto:sdsin@arysta.com) - <http://www.arystalifescience.com>

**1.4. Emergency telephone number**

Emergency number : Europe/Rest of the world (English): +44(0)1235 239670  
 112 (European Emergency Number)  
 USA: +1 215 207 0061 or 001866 928 0789  
 Australia: +61 2801 44558  
 People's Republic of China: + 86 10 5100 3039  
 New Zealand: +64 9929 1483

| Country        | Organisation/Company  | Address   | Emergency number | Comment |
|----------------|---|---|------------------|---------|
| United Kingdom | National Poisons Information Service (Belfast Centre)<br>Royal Victoria Hospital                                | Grosvenor Road<br>BT12 6BA Belfast                          | 0344 892 0111    |         |
| United Kingdom | National Poisons Information Service (Birmingham Centre)<br>City Hospital                                       | Dudley Road<br>B18 7QH Birmingham                           | 0344 892 0111    |         |
| United Kingdom | National Poisons Information Service (Cardiff Centre)<br>Gwenwyn Ward, Llandough Hospital                       | Penarth<br>CF64 2XX Cardiff                                 | 0344 892 0111    |         |
| United Kingdom | National Poisons Information Service Edinburgh<br>Royal Infirmary of Edinburgh                                  | Little France Crescent<br>EH16 4SA Edinburgh                | 0344 892 0111    |         |
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust                   | Avonley Road<br>SE14 5ER London                             | 0870 243 2241    |         |
| United Kingdom | National Poisons Information Service (Newcastle Centre)<br>Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place<br>Newcastle-upon-Tyne<br>NE1 4LP Newcastle | 0344 892 0111    |         |

**SECTION 2: Hazards identification**
**2.1. Classification of the substance or mixture**
**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Acute toxicity (oral), Category 4 H302  
 Skin sensitisation, Category 1 H317  
 Hazardous to the aquatic environment H400  
 — Acute Hazard, Category 1  
 Hazardous to the aquatic environment H410  
 — Chronic Hazard, Category 1

Full text of H statements : see section 16

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### Adverse physicochemical, human health and environmental effects

Harmful if swallowed. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



CLP Signal word :

Warning

Hazardous ingredients :

cypermethrin cis/trans +/- 40/60

Hazard statements (CLP) :

H302 - Harmful if swallowed  
H317 - May cause an allergic skin reaction  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P102 - Keep out of reach of children  
P270 - Do not eat, drink or smoke when using this product  
P273 - Avoid release to the environment  
P280 - Wear eye protection, protective gloves  
P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell  
P302+P352 - IF ON SKIN: Wash with plenty of water  
P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

EUH-statements :

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

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name   | Product identifier  | %         | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|--|---|-----------|--|
| (2-methoxymethylethoxy)propanol<br>substance with a Community workplace exposure limit<br>substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, ES, FI, FR, GB, GR, HU, IE, IT, LT, LV, MT, NL, PL, PT, RO, SE, SK) | (CAS-No.) 34590-94-8<br>(EC-No.) 252-104-2<br>(REACH-no) 01-2119450011-60 | 50 - 60   | Not classified   |
| Piperonyl butoxide   | (CAS-No.) 51-03-6<br>(EC-No.) 200-076-7<br>(REACH-no) 01-2119537431-46    | 21 - 24   | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| cypermethrin cis/trans +/- 40/60   | (CAS-No.) 52315-07-8<br>(EC-No.) 257-842-9<br>(EC Index-No.) 607-421-00-4 | 7.1 - 8.5 | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation:dust,mist),<br>H332<br>STOT SE 3, H335<br>Aquatic Acute 1, H400 (M=1000)<br>Aquatic Chronic 1, H410 (M=1000) |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : May cause an allergic skin reaction.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Handling temperature : Store at room temperature

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| (2-methoxymethylethoxy)propanol (34590-94-8) |                                |   |
|--|--------------------------------|---|
| EU   | Local name                     | (2-Methoxymethylethoxy)-propanol  |
| EU   | IOELV TWA (mg/m <sup>3</sup> ) | 308 mg/m <sup>3</sup>   |
| EU   | IOELV TWA (ppm)                | 50 ppm  |
| EU   | Notes                          | Skin  |
| United Kingdom                               | Local name                     | (2-methoxymethylethoxy) propanol  |
| United Kingdom                               | WEL TWA (mg/m <sup>3</sup> )   | 308 mg/m <sup>3</sup>   |
| United Kingdom                               | WEL TWA (ppm)                  | 50 ppm  |
| United Kingdom                               | Remark (WEL)                   | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |

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### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Protective gloves

#### Eye protection:

Face shield. Chemical goggles or safety glasses. Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### Environmental exposure controls:

Notify authorities if product enters sewers or public waters. Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                             |
|--|-----------------------------|
| Physical state                             | : Liquid                    |
| Appearance                                 | : clear.                    |
| Colour                                     | : beige.                    |
| Odour                                      | : characteristic.           |
| Odour threshold                            | : No data available         |
| pH   | : No data available         |
| Relative evaporation rate (butylacetate=1) | : No data available         |
| Melting point                              | : Not applicable            |
| Freezing point                             | : No data available         |
| Boiling point                              | : No data available         |
| Flash point                                | : > 79 °C                   |
| Auto-ignition temperature                  | : 218 °C                    |
| Decomposition temperature                  | : No data available         |
| Flammability (solid, gas)                  | : Not applicable            |
| Vapour pressure                            | : No data available         |
| Relative vapour density at 20 °C           | : No data available         |
| Relative density                           | : No data available         |
| Density                                    | : 1.014 g/ml                |
| Solubility                                 | : (1% in water): Emulsion   |
| Log Pow                                    | : No data available         |
| Viscosity, kinematic                       | : 9.76 mm <sup>2</sup> /s   |
| Viscosity, dynamic                         | : No data available         |
| Explosive properties                       | : Product is not explosive. |
| Oxidising properties                       | : No data available         |
| Explosive limits                           | : No data available         |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

| TALISMA EC                 |                |
|----------------------------|----------------|
| LD50 oral rat              | 500 mg/kg      |
| LD50 dermal rabbit         | > 2000 mg/kg   |
| LC50 inhalation rat (mg/l) | > 5.21 mg/l/4h |

| cypermethrin cis/trans +/- 40/60 (52315-07-8) |              |
|---|--------------|
| LD50 oral rat                                 | 500 mg/kg    |
| LD50 dermal rat                               | > 2000 mg/kg |
| LC50 inhalation rat (mg/l)                    | 3.28 mg/l/4h |

| (2-methoxymethylethoxy)propanol (34590-94-8) |               |
|--|---------------|
| LD50 oral rat                                | > 5000 mg/kg  |
| LD50 dermal rabbit                           | > 10000 mg/kg |

| Piperonyl butoxide (51-03-6) |               |
|------------------------------|---------------|
| LD50 oral rat                | 4570 mg/kg    |
| LD50 dermal rabbit           | > 2000 mg/kg  |
| LC50 inhalation rat (mg/l)   | > 5.9 mg/l/4h |

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitisation : OECD 429 (LLNA)  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

| cypermethrin cis/trans +/- 40/60 (52315-07-8) |                    |
|---|--------------------|
| NOAEL (chronic, oral, animal/male, 2 years)   | 5 mg/kg bodyweight |

Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified

| TALISMA EC           |                         |
|----------------------|-------------------------|
| Viscosity, kinematic | 9.76 mm <sup>2</sup> /s |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

| cypermethrin cis/trans +/- 40/60 (52315-07-8) |   |
|---|---|
| LC50 fish 1                                   | 0.0028 mg/l (96h; Salmo gairdneri)          |
| EC50 Daphnia 1                                | 0.000004 mg/l                               |
| ErC50 (algae)                                 | > 0.1 mg/l (96h; Selenastrum capricornutum) |
| NOEC chronic fish                             | 0.00003 mg/l (34d Pimephales promelas)      |
| NOEC chronic crustacea                        | 0.00004 mg/l Daphnia magna                  |

| (2-methoxymethylethoxy)propanol (34590-94-8) |  |
|--|--|
| LC50 fish 1                                  | > 10000 mg/l (96h pimephales promelas) |
| EC50 Daphnia 1                               | > 5000 mg/l (48h daphnia magna)        |

| Piperonyl butoxide (51-03-6) |                                       |
|------------------------------|---------------------------------------|
| LC50 fish 1                  | 3.94 mg/l (96h Cyprinodon variegatus) |
| EC50 Daphnia 1               | 0.51 mg/l (48h Daphnia magna)         |

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|                                     |   |
|-------------------------------------|---|
| <b>Piperonyl butoxide (51-03-6)</b> |   |
| ErC50 (algae)                       | 3.89 mg/l (72h <i>Selenastrum capricornutum</i> ) |

### 12.2. Persistence and degradability

|  |                            |
|--|----------------------------|
| <b>cypermethrin cis/trans +/- 40/60 (52315-07-8)</b> |                            |
| Persistence and degradability                        | Not readily biodegradable. |

|   |                 |
|---|-----------------|
| <b>(2-methoxymethylethoxy)propanol (34590-94-8)</b> |                 |
| Persistence and degradability                       | May biodegrade. |

|                                     |                            |
|-------------------------------------|----------------------------|
| <b>Piperonyl butoxide (51-03-6)</b> |                            |
| Persistence and degradability       | Not readily biodegradable. |

### 12.3. Bioaccumulative potential

|  |                                      |
|--|--------------------------------------|
| <b>cypermethrin cis/trans +/- 40/60 (52315-07-8)</b> |                                      |
| BCF fish 1   | 1204 mg/l ( <i>Salmo gairdneri</i> ) |
| Log Pow  | 5.3 - 5.6 (25°C)                     |

|   |      |
|---|------|
| <b>(2-methoxymethylethoxy)propanol (34590-94-8)</b> |      |
| Bioaccumulative potential                           | Low. |

|                                     |     |
|-------------------------------------|-----|
| <b>Piperonyl butoxide (51-03-6)</b> |     |
| Log Pow                             | 4.8 |

### 12.4. Mobility in soil

|                   |           |
|-------------------|-----------|
| <b>TALISMA EC</b> |           |
| Surface tension   | 27.2 mN/m |

|                                     |                      |
|-------------------------------------|----------------------|
| <b>Piperonyl butoxide (51-03-6)</b> |                      |
| Ecology - soil                      | Low mobility (soil). |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available



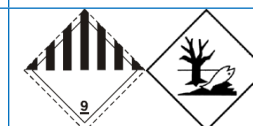
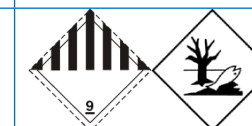
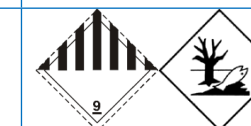
## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR  | IMDG  | IATA  | ADN   | RID   |
|--|---|---|---|---|
| <b>14.1. UN number</b>   |   |   |   |   |
| 3082   | 3082  | 3082  | 3082  | 3082  |
| <b>14.2. UN proper shipping name</b>   |   |   |   |   |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.   | Environmentally hazardous substance, liquid, n.o.s.                                     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                                     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                                     |
| <b>Transport document description</b>  |   |   |   |   |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cypermethrin, PBO), 9, III, (E) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cypermethrin, PBO), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Cypermethrin, PBO), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cypermethrin, PBO), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cypermethrin, PBO), 9, III |
| <b>14.3. Transport hazard class(es)</b>  |   |   |   |   |
| 9  | 9   | 9   | 9   | 9   |
|            |                        |      |     |    |
| <b>14.4. Packing group</b>   |   |   |   |   |
| III  | III   | III   | III   | III   |

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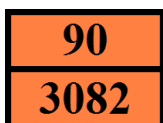
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| ADR                                    | IMDG  | IATA                                | ADN                                 | RID                                 |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| <b>14.5. Environmental hazards</b>     |   |                                     |                                     |                                     |
| Dangerous for the environment : Yes    | Dangerous for the environment : Yes<br>Marine pollutant : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes |
| No supplementary information available |   |                                     |                                     |                                     |

### 14.6. Special precautions for user

#### - Overland transport

|   |                           |
|---|---------------------------|
| Classification code (ADR)   | : M6                      |
| Special provisions (ADR)  | : 274, 335, 601           |
| Limited quantities (ADR)  | : 5I                      |
| Excepted quantities (ADR)   | : E1                      |
| Packing instructions (ADR)  | : P001, IBC03, LP01, R001 |
| Special packing provisions (ADR)  | : PP1                     |
| Mixed packing provisions (ADR)  | : MP19                    |
| Portable tank and bulk container instructions (ADR)                     | : T4                      |
| Portable tank and bulk container special provisions (ADR)               | : TP1, TP29               |
| Tank code (ADR)   | : LGBV                    |
| Vehicle for tank carriage   | : AT                      |
| Transport category (ADR)  | : 3                       |
| Special provisions for carriage - Packages (ADR)                        | : V12                     |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13                    |
| Hazard identification number (Kemler No.)                               | : 90                      |
| Orange plates   | :                         |



|                         |       |
|-------------------------|-------|
| Tunnel restriction code | : E   |
| EAC code                | : •3Z |

#### - Transport by sea

|                                   |              |
|-----------------------------------|--------------|
| Special provisions (IMDG)         | : 274, 335   |
| Limited quantities (IMDG)         | : 5 L        |
| Excepted quantities (IMDG)        | : E1         |
| Packing instructions (IMDG)       | : P001, LP01 |
| Special packing provisions (IMDG) | : PP1        |
| IBC packing instructions (IMDG)   | : IBC03      |
| Tank instructions (IMDG)          | : T4         |
| Tank special provisions (IMDG)    | : TP2, TP29  |
| EmS-No. (Fire)                    | : F-A        |
| EmS-No. (Spillage)                | : S-F        |
| Stowage category (IMDG)           | : A          |

#### - Air transport

|  |             |
|--|-------------|
| PCA Excepted quantities (IATA)               | : E1        |
| PCA Limited quantities (IATA)                | : Y964      |
| PCA limited quantity max net quantity (IATA) | : 30kgG     |
| PCA packing instructions (IATA)              | : 964       |
| PCA max net quantity (IATA)                  | : 450L      |
| CAO packing instructions (IATA)              | : 964       |
| CAO max net quantity (IATA)                  | : 450L      |
| Special provisions (IATA)                    | : A97, A158 |
| ERG code (IATA)                              | : 9L        |

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### - Inland waterway transport

|                                   |                |
|-----------------------------------|----------------|
| Classification code (ADN)         | : M6           |
| Special provisions (ADN)          | : 274, 335, 61 |
| Limited quantities (ADN)          | : 5 L          |
| Excepted quantities (ADN)         | : E1           |
| Carriage permitted (ADN)          | : T            |
| Equipment required (ADN)          | : PP           |
| Number of blue cones/lights (ADN) | : 0            |

### - Rail transport

|   |                           |
|---|---------------------------|
| Classification code (RID)   | : M6                      |
| Special provisions (RID)  | : 274, 335, 601           |
| Limited quantities (RID)  | : 5L                      |
| Excepted quantities (RID)   | : E1                      |
| Packing instructions (RID)  | : P001, IBC03, LP01, R001 |
| Special packing provisions (RID)  | : PP1                     |
| Mixed packing provisions (RID)  | : MP19                    |
| Portable tank and bulk container instructions (RID)                     | : T4                      |
| Portable tank and bulk container special provisions (RID)               | : TP1, TP29               |
| Tank codes for RID tanks (RID)  | : LGBV                    |
| Transport category (RID)  | : 3                       |
| Special provisions for carriage – Packages (RID)                        | : W12                     |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW31              |
| Colis express (express parcels) (RID)                                   | : CE8                     |
| Hazard identification number (RID)                                      | : 90                      |

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

|  |  |
|--|--|
| 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008   | TALISMA EC - cypermethrin cis/trans +/- 40/60 - Piperonyl butoxide |
| 3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 | TALISMA EC - cypermethrin cis/trans +/- 40/60                      |
| 3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1   | TALISMA EC - cypermethrin cis/trans +/- 40/60 - Piperonyl butoxide |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes:

| Section | Changed item | Change | Comments |
|---------|--------------|--------|----------|
|---------|--------------|--------|----------|



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|     |  |          |  |
|-----|--|----------|--|
|     | Indication of changes  | Removed  |  |
|     | Supersedes   | Modified |  |
|     | Revision date  | Modified |  |
|     | PCA packing instructions (IATA)  | Added    |  |
|     | PCA max net quantity (IATA)  | Added    |  |
|     | PCA limited quantity max net quantity (IATA)                               | Added    |  |
|     | PCA Limited quantities (IATA)  | Added    |  |
|     | PCA Excepted quantities (IATA)   | Added    |  |
|     | CAO packing instructions (IATA)  | Added    |  |
|     | CAO max net quantity (IATA)  | Added    |  |
|     | UN-No. (ADN)   | Added    |  |
|     | Class (ADN)  | Added    |  |
|     | Packing group (IMDG)   | Removed  |  |
|     | Packing group (IATA)   | Removed  |  |
| 2.1 | Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] | Added    |  |
| 4.1 | First-aid measures general   | Added    |  |
| 4.1 | First-aid measures after skin contact                                      | Added    |  |
| 4.1 | First-aid measures after inhalation  | Added    |  |
| 4.1 | First-aid measures after ingestion   | Added    |  |
| 4.1 | First-aid measures after eye contact                                       | Added    |  |
| 4.2 | Symptoms/injuries after skin contact                                       | Added    |  |
| 4.2 | Symptoms/effects after inhalation  | Added    |  |
| 4.2 | Symptoms/injuries after ingestion  | Added    |  |
| 4.2 | Symptoms/injuries after eye contact  | Added    |  |
| 4.2 | Symptoms/effects   | Added    |  |
| 4.3 | Treatment  | Added    |  |
| 5.1 | Unsuitable extinguishing media   | Added    |  |
| 5.1 | Suitable extinguishing media   | Added    |  |
| 5.2 | Fire hazard  | Added    |  |
| 5.3 | Precautionary measures fire  | Added    |  |
| 5.3 | Protection during firefighting   | Added    |  |
| 5.3 | Firefighting instructions  | Added    |  |
| 5.3 | Other information  | Added    |  |
| 6.1 | Protective equipment   | Added    |  |
| 6.1 | Protective equipment   | Added    |  |
| 6.1 | Emergency procedures   | Added    |  |
| 6.1 | General measures   | Added    |  |
| 6.2 | Environmental precautions  | Added    |  |
| 6.3 | For containment  | Added    |  |
| 6.3 | Methods for cleaning up  | Added    |  |
| 6.3 | Other information  | Added    |  |
| 6.4 | Reference to other sections (8, 13)  | Added    |  |
| 7.1 | Precautions for safe handling  | Added    |  |
| 7.1 | Hygiene measures   | Added    |  |
| 7.1 | Handling temperature   | Added    |  |
| 7.2 | Incompatible products  | Added    |  |
| 7.2 | Technical measures   | Added    |  |
| 7.2 | Storage conditions   | Added    |  |
| 7.2 | Storage area   | Added    |  |
| 7.2 | Maximum storage period   | Removed  |  |
| 7.2 | Packaging materials  | Added    |  |
| 8.2 | Other information  | Added    |  |
| 8.2 | Environmental exposure controls  | Added    |  |
| 8.2 | Respiratory protection   | Added    |  |

# TALISMA EC

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|      |   |          |  |
|------|---|----------|--|
| 8.2  | Personal protective equipment                       | Added    |  |
| 8.2  | Hand protection                                     | Added    |  |
| 8.2  | Eye protection                                      | Added    |  |
| 8.2  | Skin and body protection                            | Added    |  |
| 10.1 | Reactivity  | Added    |  |
| 10.2 | Chemical stability                                  | Added    |  |
| 10.3 | Possibility of hazardous reactions                  | Added    |  |
| 10.4 | Conditions to avoid                                 | Added    |  |
| 10.5 | Incompatible materials                              | Added    |  |
| 10.6 | Hazardous decomposition products                    | Added    |  |
| 13.1 | Waste treatment methods                             | Added    |  |
| 13.1 | Additional information                              | Added    |  |
| 13.1 | Regional legislation (waste)                        | Added    |  |
| 14.2 | Proper Shipping Name (ADR)                          | Modified |  |
| 14.6 | EAC code  | Added    |  |
| 14.6 | Limited quantities (ADR)                            | Added    |  |
| 14.6 | LQ  | Removed  |  |
| 14.6 | Instruction "passenger" - Limited quantities (ICAO) | Removed  |  |
| 14.6 | Instruction "passenger" (ICAO)                      | Removed  |  |
| 14.6 | Instruction "cargo" (ICAO)                          | Removed  |  |

Full text of H- and EUH-statements:

|                                     |  |
|-------------------------------------|--|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4   |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4  |
| Aquatic Acute 1                     | Hazardous to the aquatic environment — Acute Hazard, Category 1                            |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment — Chronic Hazard, Category 1                          |
| STOT SE 3                           | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H302                                | Harmful if swallowed   |
| H317                                | May cause an allergic skin reaction  |
| H332                                | Harmful if inhaled   |
| H335                                | May cause respiratory irritation   |
| H400                                | Very toxic to aquatic life   |
| H410                                | Very toxic to aquatic life with long lasting effects                                       |
| EUH401                              | To avoid risks to human health and the environment, comply with the instructions for use   |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

|                     |      |                       |
|---------------------|------|-----------------------|
| Acute Tox. 4 (Oral) | H302 | On basis of test data |
| Skin Sens. 1        | H317 | Expert judgment       |
| Aquatic Acute 1     | H400 | Annex VII conversion  |
| Aquatic Chronic 1   | H410 | Annex VII conversion  |

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*