

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

### 1.1. Product identifier

Product form : Mixture  
Name : Azoxystrobin 250 g/L SC  
Trade name : NORIOS

### 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 : Plant protection products  
Use of the substance/mixture : Fungicide

#### 1.2.2. Uses advised against

No additional information available

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

#### Supplier

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>

#### Distributor

Arysta LifeScience Iberia S.L.U.  
Calle de Montalbán, 3  
28014 Madrid - España/Spain  
T +34 901 90 00 40  
[iberia@arysta.com](mailto:iberia@arysta.com) - <http://www.arystalifescience.es>

### 1.4. Emergency telephone number

Emergency number : Europe/Rest of the world (English): +44(0)1235 239670

| Country | Organisation/Company  | Address                                | Emergency number | Comment |
|---------|---|--|------------------|---------|
| Spain   | Servicio de Información Toxicológica<br>Instituto Nacional de Toxicología, Departamento de Madrid | Calle Luis Cabrera 9<br>E-28002 Madrid | +34 91 562 04 20 |         |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Acute toxicity (inhalation:dust,mist) Category 4 H332  
Skin sensitisation, Category 1 H317  
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400  
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410  
Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

Harmful if inhaled. 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) :



GHS07

GHS09

CLP Signal word

: Warning

Hazardous ingredients

: azoxystrobin (ISO); methyl (E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate; 1,2-benzisothiazol-3(2H)-one

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.  
H332 - Harmful if inhaled.  
H410 - Very toxic to aquatic life with long lasting effects.

# NORIOS

## Safety Data Sheet

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

|                                |   |
|--------------------------------|---|
| Precautionary statements (CLP) | : P261 - Avoid breathing vapours.<br>P273 - Avoid release to the environment.<br>P280 - Wear protective gloves, protective clothing, eye protection, face protection.<br>P302+P352 - IF ON SKIN: Wash with plenty of soap and water.<br>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P391 - Collect spillage.<br>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  |
| EUH-statements                 | : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.  |
| Extra phrases                  | : SPe2: To protect groundwater, do not apply in alkaline soils or in soils that do not contain a percentage of sand higher than 80%<br>Spe3: To protect the aquatic organisms, respect a 5m safety band with vegetal cover to the surface water bodies in cereals, eggplant, pepper, tomato, watermelon, pickle, pepine, melon, pumpkin, courgette, strawberry, kidney bean, green beans, Brussels sprouts and artichoke.<br>SPe3: To protect aquatic organisms, respect spin to treat a 10m safety band with vegetal to the surface water masses in pea and protein pea. |

### 2.3. Other hazards

Other hazards not contributing to the classification : This 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.

## 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]  |
|--|--|-------|--|
| azoxystrobin (ISO); methyl (E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate | (CAS-No.) 131860-33-8<br>(EC Index-No.) 607-256-00-8                     | 23.5  | Acute Tox. 3 (Inhalation), H331<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10)  |
| 1,2-benzisothiazol-3(2H)-one   | (CAS-No.) 2634-33-5<br>(EC-No.) 220-120-9<br>(EC Index-No.) 613-088-00-6 | < 0.5 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 |
| Sodium hydroxide<br>substance with national workplace exposure limit(s)<br>(ES)                    | (CAS-No.) 1310-73-2<br>(EC-No.) 215-185-5<br>(REACH-no) 01-2119457892-27 | < 1   | Met. Corr. 1, H290<br>Skin Corr. 1A, H314  |

### Specific concentration limits:

| Name                         | Product identifier   | Specific concentration limits   |
|------------------------------|--|---|
| 1,2-benzisothiazol-3(2H)-one | (CAS-No.) 2634-33-5<br>(EC-No.) 220-120-9<br>(EC Index-No.) 613-088-00-6 | ( 0,05 =<C < 100) Skin Sens. 1, H317  |
| Sodium hydroxide             | (CAS-No.) 1310-73-2<br>(EC-No.) 215-185-5<br>(REACH-no) 01-2119457892-27 | ( 0,5 =<C < 2) Eye Irrit. 2, H319<br>( 0,5 =<C < 2) Skin Irrit. 2, H315<br>( 2 =<C < 5) Skin Corr. 1B, H314<br>( 5 =<C < 100) Skin Corr. 1A, H314 |

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. Call a poison center or a doctor if you feel unwell.              |
| 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    | : Call a poison center or a doctor if you feel unwell.   |

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

Symptoms/effects : May cause an allergic skin reaction. Harmful if inhaled.

# NORIOS

## Safety Data Sheet

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

### 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 breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

#### 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 : Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. 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.

Maximum storage period : 2 year(s)

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Sodium hydroxide (1310-73-2)

|       |                             |   |
|-------|-----------------------------|---|
| Spain | Local name                  | Hidróxido de sodio  |
| Spain | VLA-EC (mg/m <sup>3</sup> ) | 2 mg/m <sup>3</sup>   |
| Spain | Regulatory reference        | Límites de Exposición Profesional para Agentes Químicos en España 2018. INSHT |

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Protective gloves

| Type | Material | Permeation | Thickness (mm) | Penetration | Standard   |
|------|----------|------------|----------------|-------------|------------|
|      |          |            |                |             | EN ISO 374 |

# NORIOS

## Safety Data Sheet

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

|  |                    |                        |                 |
|--|--------------------|------------------------|-----------------|
| <b>Eye protection:</b>   |                    |                        |                 |
| Safety glasses   |                    |                        |                 |
| <b>Type</b>  | <b>Use</b>         | <b>Characteristics</b> | <b>Standard</b> |
|  |                    |                        | EN 166          |
| <b>Skin and body protection:</b>                                 |                    |                        |                 |
| Wear suitable protective clothing                                |                    |                        |                 |
| <b>Type</b>  |                    | <b>Standard</b>        |                 |
|  |                    | EN ISO 13688           |                 |
| <b>Respiratory protection:</b>                                   |                    |                        |                 |
| [In case of inadequate ventilation] wear respiratory protection. |                    |                        |                 |
| <b>Device</b>  | <b>Filter type</b> | <b>Condition</b>       | <b>Standard</b> |
| full mask (DIN EN 136), Half-face mask (DIN EN 140)              | A/P                |                        | EN 14387        |

### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|  |                               |
|--|-------------------------------|
| Physical state                             | : Liquid                      |
| Colour                                     | : off white to yellow orange. |
| Odour                                      | : Slight.                     |
| Odour threshold                            | : Not applicable              |
|  | Not applicable                |
| pH   | : Not applicable              |
| pH solution                                | : ≈ 6,8                       |
| Relative evaporation rate (butylacetate=1) | : Not applicable              |
| Relative evaporation rate (ether=1)        | : Not applicable              |
| Melting point                              | : Not applicable              |
| Freezing point                             | : Not applicable              |
| Boiling point                              | : Not applicable              |
| Flash point                                | : > 97 °C                     |
| Auto-ignition temperature                  | : 475 °C                      |
| Decomposition temperature                  | : Not applicable              |
| Flammability (solid, gas)                  | : Not applicable              |
| Vapour pressure                            | : Not applicable              |
| Relative vapour density at 20 °C           | : No data available           |
| Relative density                           | : No data available           |
| Density                                    | : 1,09 g/ml                   |
| Solubility                                 | : Miscible with water.        |
| Log Pow                                    | : Not applicable              |
| Viscosity, kinematic                       | : No data available           |
| Viscosity, dynamic                         | : No data available           |
| Explosive properties                       | : Product is not explosive.   |
| Oxidising properties                       | : Non oxidizing.              |
| Explosive limits                           | : Not applicable              |

### 9.2. Other information

|              |                  |
|--------------|------------------|
| Bulk density | : Not applicable |
|--------------|------------------|

## 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.

# NORIOS

## Safety Data Sheet

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

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 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)       | : Not classified      |
| Acute toxicity (dermal)     | : Not classified      |
| Acute toxicity (inhalation) | : Harmful if inhaled. |

#### NORIOS

|                            |                         |
|----------------------------|-------------------------|
| LD50 oral rat              | > 2000 mg/kg            |
| LD50 dermal rat            | > 2000 mg/kg            |
| LC50 inhalation rat (mg/l) | > 1 ( $\leq$ 5) mg/l/4h |
| ATE CLP (dust,mist)        | 5 mg/l/4h               |

#### azoxystrobin (ISO); methyl (E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate (131860-33-8)

|                            |              |
|----------------------------|--------------|
| LD50 oral rat              | > 5000 mg/kg |
| LD50 dermal rat            | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | 0,7 mg/l/4h  |

#### 1,2-benzisothiazol-3(2H)-one (2634-33-5)

|                                   |   |
|-----------------------------------|---|
| LD50 oral                         | 490 mg/kg                               |
| Skin corrosion/irritation         | : Not classified.<br>pH: Not applicable |
| Serious eye damage/irritation     | : Not classified<br>pH: Not applicable  |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction.  |
| Germ cell mutagenicity            | : Not classified                        |
| Carcinogenicity                   | : Not classified                        |
| Reproductive toxicity             | : Not classified                        |
| STOT-single exposure              | : Not classified                        |
| STOT-repeated exposure            | : Not classified                        |
| Aspiration hazard                 | : Not classified                        |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                          |   |
|--------------------------|---|
| Ecology - general        | : Very toxic to aquatic life with long lasting effects. |
| Acute aquatic toxicity   | : Very toxic to aquatic life.                           |
| Chronic aquatic toxicity | : Very toxic to aquatic life with long lasting effects. |
| Not rapidly degradable   |   |

#### NORIOS

|                              |                               |
|------------------------------|-------------------------------|
| LC50 fish                    | 1,2 mg/l                      |
| EC50 Daphnia                 | 0,53 mg/l (48h Daphnia magna) |
| ErC50 (algae)                | 2,7 mg/l                      |
| ErC50 (other aquatic plants) | 15,6 mg/l (Lemna)             |

#### azoxystrobin (ISO); methyl (E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate (131860-33-8)

|           |                                 |
|-----------|---------------------------------|
| LC50 fish | 0,47 mg/l (96h Salmo gairdneri) |
|-----------|---------------------------------|

# NORIOS

## Safety Data Sheet

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

|                                |  |
|--------------------------------|--|
| EC50 Daphnia                   | 0,13 mg/l (48h <i>Macrocyclus fuscus</i> )         |
| EC50 other aquatic organisms 1 | 0,055 mg/l (96h <i>Mysidopsis bahia</i> )          |
| ErC50 (algae)                  | 0,146 mg/l (5d <i>Navicula pelliculosa</i> )       |
| NOEC chronic fish              | 0,147 mg/l (33d <i>Pimephales promelas</i> )       |
| NOEC chronic crustacea         | 0,0095 mg/l (28d <i>Mysidopsis bahia</i> )         |
| NOEC chronic algae             | 0,038 mg/l (96h <i>Selenastrum capricornutum</i> ) |

### Sodium hydroxide (1310-73-2)

|              |               |
|--------------|---------------|
| LC50 fish    | 35 - 189 mg/l |
| EC50 Daphnia | 40 mg/l       |

### 1,2-benzisothiazol-3(2H)-one (2634-33-5)

|                    |   |
|--------------------|---|
| LC50 fish          | 2,15 mg/l/96h ( <i>Oncorhynchus mykiss</i> (Rainbow trout)) (OECD 203 method) |
| EC50 Daphnia       | 2,9 mg/l/48h ( <i>Daphnia magna</i> ) (OECD 202 method)                       |
| ErC50 (algae)      | 0,11 mg/l/72h ( <i>Selenastrum capricornutum</i> ) (OECD 201 method)          |
| NOEC chronic algae | 0,0403 mg/l/72h ( <i>Selenastrum capricornutum</i> ) (OECD 201 method)        |

### 12.2. Persistence and degradability

#### azoxystrobin (ISO); methyl (E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate (131860-33-8)

|                               |   |
|-------------------------------|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
|-------------------------------|---|

### 1,2-benzisothiazol-3(2H)-one (2634-33-5)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

### 12.3. Bioaccumulative potential

#### NORIOS

|         |                |
|---------|----------------|
| Log Pow | Not applicable |
|---------|----------------|

#### azoxystrobin (ISO); methyl (E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate (131860-33-8)

|                           |   |
|---------------------------|---|
| BCF fish                  | 21  |
| Log Pow                   | 2,5 (20°C)                                    |
| Bioaccumulative potential | There is no bioaccumulation. Not established. |

### 12.4. Mobility in soil

#### NORIOS

|                 |           |
|-----------------|-----------|
| Surface tension | 32,5 mN/m |
|-----------------|-----------|

#### azoxystrobin (ISO); methyl (E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate (131860-33-8)

|                 |                              |
|-----------------|------------------------------|
| Surface tension | 71,8 mN/m (20°C ; 96.2% w/w) |
|-----------------|------------------------------|

### 12.5. Results of PBT and vPvB assessment

#### Component

|  |   |
|--|---|
| azoxystrobin (ISO); methyl (E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate (131860-33-8) | PBT/vPvB assessment not available as chemical safety assessment not conducted |
|--|---|

### 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.



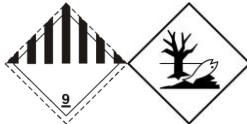
## SECTION 14: Transport information

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

# NORIOS

## Safety Data Sheet

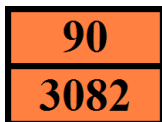
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| ADR   | IMDG   | IATA  |
|---|--|---|
| <b>14.1. UN number</b>  |  |   |
| UN 3082   | UN 3082  | UN 3082   |
| <b>14.2. UN proper shipping name</b>  |  |   |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                                     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  | Environmentally hazardous substance, liquid, n.o.s.                                 |
| <b>Transport document description</b>   |  |   |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Azoxistrobin), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Azoxistrobin), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Azoxistrobin), 9, III  |
| <b>14.3. Transport hazard class(es)</b>   |  |   |
| 9   | 9  | 9   |
|        |                     |  |
| <b>14.4. Packing group</b>  |  |   |
| III   | III  | III   |
| <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   |
| No supplementary information available  |  |   |

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : M6  
 Special provisions (ADR) : 274, 335, 375, 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 : -

#### Transport by sea

Special provisions (IMDG) : 274, 335, 969  
 Limited quantities (IMDG) : 5 L  
 Excepted quantities (IMDG) : E1  
 Packing instructions (IMDG) : LP01, P001  
 Special packing provisions (IMDG) : PP1  
 IBC packing instructions (IMDG) : IBC03

# NORIOS

## Safety Data Sheet

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

|                                |             |
|--------------------------------|-------------|
| 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, A197 |
| ERG code (IATA)                              | : 9L              |

### 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

Other information, restriction and prohibition regulations : Classification according to WHO regulation. Class III : Slightly hazardous.

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : Directive 2012/18/EU (SEVESO III): E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

#### 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 |
|---------|--|----------|----------|
|         | Packing group (IATA)                   | Removed  |          |
|         | Packing group (IMDG)                   | Removed  |          |
|         | UN-No. (ADN)                           | Added    |          |
|         | Class (ADN)                            | Added    |          |
| 2.2     | S-phrases                              | Modified |          |
| 2.2     | Precautionary statements (CLP)         | Modified |          |
| 3       | Composition/information on ingredients | Modified |          |
| 9.1     | Viscosity, dynamic                     | Removed  |          |
| 9.1     | Oxidising properties                   | Added    |          |
| 9.1     | Auto-ignition temperature              | Added    |          |



# NORIOS

## Safety Data Sheet

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

|      |                              |          |  |
|------|------------------------------|----------|--|
| 9.1  | Explosive properties         | Added    |  |
| 9.1  | Viscosity, kinematic         | Added    |  |
| 11.1 | LC50 inhalation rat (mg/l)   | Modified |  |
| 11.1 | LD50 dermal rat              | Modified |  |
| 12.1 | EC50 Daphnia 1               | Modified |  |
| 12.1 | LC50 fish                    | Modified |  |
| 12.1 | ErC50 (algae)                | Modified |  |
| 12.1 | ErC50 (other aquatic plants) | Added    |  |
| 12.4 | Surface tension              | Added    |  |
| 14.2 | Proper Shipping Name (ADR)   | Modified |  |
| 14.6 | Limited quantities (ADR)     | Added    |  |

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| Acute Tox. 3 (Inhalation)           | Acute toxicity (inhal.), Category 3   |
| 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                         |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment — Chronic Hazard, Category 2                         |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1   |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2   |
| Met. Corr. 1                        | Corrosive to metals, Category 1   |
| Skin Corr. 1A                       | Skin corrosion/irritation, Category 1A  |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1B  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2   |
| Skin Sens. 1                        | Skin sensitisation, Category 1  |
| H290                                | May be corrosive to metals.   |
| H302                                | Harmful if swallowed.   |
| H314                                | Causes severe skin burns and eye damage.  |
| H315                                | Causes skin irritation.   |
| H317                                | May cause an allergic skin reaction.  |
| H318                                | Causes serious eye damage.  |
| H319                                | Causes serious eye irritation.  |
| H331                                | Toxic if inhaled.   |
| H332                                | Harmful 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.  |
| 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 (Inhalation:dust,mist)   | H332 | On basis of test data |
| Skin Sens. 1  | H317 | Expert judgment       |
| Aquatic Acute 1   | H400 | On basis of test data |
| Aquatic Chronic 1   | H410 | On basis of test data |

Safety Data Sheet applicable for regions : ES - Spain;EU - Europe

SDS EU (REACH Annex II)

# NORIOS

## Safety Data Sheet

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

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*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.*