

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## HERITAGE

Version 12.0      Revision Date: 15.06.2017      SDS Number: S1301109406      This version replaces all previous versions.

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

#### 1.1 Product identifier

Trade name : HERITAGE  
Design code : A12704A  
Product Registration number : MAPP 13536

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

Use of the Substance/Mixture : Fungicide

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

Company : Syngenta UK Limited  
CPC4, Capital Park  
Fulbourn, Cambridge CB21 5XE  
United Kingdom  
Telephone : +44 (0) 1223 883400  
Telefax : +44 (0) 1223 882195  
E-mail address : customer.services@syngenta.com

#### 1.4 Emergency telephone number

Emergency telephone number : +44 1484 538444

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Acute aquatic toxicity, Category 1

H400: Very toxic to aquatic life.

Chronic aquatic toxicity, 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 : H410 Very toxic to aquatic life with long lasting effects.

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- Supplemental Hazard Statements : EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
- Precautionary statements : **Response:**  
P391 Collect spillage.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.
- Precautionary statements : **P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty triple rinsed clean containers which can be disposed of as non-hazardous waste.**

### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
azoxystrobin	131860-33-8  607-256-00-8	Acute Tox. 3; H331 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 50 - < 70
naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methylnaphthalenesulfonic acid, sodium salt	9084-06-4	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 5 - < 10
sulfuric acid, mono-C12-18-alkyl esters, sodium salts	68955-19-1 273-257-1 01-2119490225-39	Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 1 - < 3

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.

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- 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 : No information available.

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

Treatment : There is no specific antidote available.  
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

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courses.  
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.  
Avoid dust formation.

#### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
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, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).  
Do not create a powder cloud by using a brush or compressed air.  
Clean contaminated surface thoroughly.  
Clean with detergents. Avoid solvents.  
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.  
Avoid contact with skin and eyes.  
When using do not eat, drink or smoke.  
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.

Other data : Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

#### 7.3 Specific end use(s)

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

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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
Further information	Substances used as active ingredients in pesticides are listed under their systematic chemical names and/or their (ISO) common names. These may sometimes be used as parts of the names of proprietary pesticide formulations. In all cases, the exposure limit applies to the specific active ingredient in the workplace atmosphere and not the formulation as a whole.			
azoxystrobin	131860-33-8	TWA	4 mg/m <sup>3</sup>	Syngenta
kaolin	1332-58-7	TWA (Respirable dust)	2 mg/m <sup>3</sup>	GB EH40
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			

### 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.

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### Personal protective equipment

- Eye protection : No special protective equipment required.
- Hand protection  
Remarks : No special protective equipment required.
- Skin and body protection : No special protective equipment required.  
Select skin and body protection based on the physical job requirements.
- Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- 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.
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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : solid
- Colour : yellow to light brown
- Odour : none
- Odour Threshold : No data available
- pH : 4 - 8  
Concentration: 1 % w/v
- Evaporation rate : No data available
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Relative vapour density : No data available
- Density : 0.54 g/cm<sup>3</sup>
- Decomposition temperature : No data available
- Explosive properties : Not explosive
- Oxidizing properties : The substance or mixture is not classified as oxidizing.

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### 9.2 Other information

No data available

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## 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

Combustion or thermal decomposition will evolve toxic and irritant vapours.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity

: LD50 (Rat, male and female): > 5,000 mg/kg  
Remarks: The toxicological data has been taken from products of similar composition.

Acute inhalation toxicity

: LC50 (Rat): > 4.67 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: The toxicological data has been taken from products of similar composition.

Acute dermal toxicity

: LD50 (Rat, male and female): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: The toxicological data has been taken from products of similar composition.

#### Components:

##### azoxystrobin:

Acute oral toxicity

: LD50 (Rat, male and female): > 5,000 mg/kg

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Acute inhalation toxicity : LC50 (Rat, female): 0.7 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

LC50 (Rat, male): 0.9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

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

### **sulfuric acid, mono-C12-18-alkyl esters, sodium salts:**

Acute oral toxicity

: LD50 (Rat, male and female): 2,600 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

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

### **Skin corrosion/irritation**

#### **Product:**

Species: Rabbit

Result: No skin irritation

Remarks: The toxicological data has been taken from products of similar composition.

#### **Components:**

##### **azoxystrobin:**

Species: Rabbit

Result: No skin irritation

##### **naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methylnaphthalenesulfonic acid, sodium salt:**

Species: Rabbit

Result: Irritating to skin.

##### **sulfuric acid, mono-C12-18-alkyl esters, sodium salts:**

Species: Rabbit

Result: Irritating to skin.

### **Serious eye damage/eye irritation**

#### **Product:**

Species: Rabbit

Result: Moderate eye irritation

Remarks: The toxicological data has been taken from products of similar composition.

#### **Components:**

##### **azoxystrobin:**

Species: Rabbit



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Result: No eye irritation

### **naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methyl-naphthalenesulfonic acid, sodium salt:**

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

### **sulfuric acid, mono-C12-18-alkyl esters, sodium salts:**

Species: Rabbit

Result: Risk of serious damage to eyes.

### **Respiratory or skin sensitisation**

#### **Product:**

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Remarks: The toxicological data has been taken from products of similar composition.

#### **Components:**

##### **azoxystrobin:**

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

### **sulfuric acid, mono-C12-18-alkyl esters, sodium salts:**

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

### **Germ cell mutagenicity**

#### **Components:**

##### **azoxystrobin:**

Germ cell mutagenicity- Assessment

: Animal testing did not show any mutagenic effects.

### **sulfuric acid, mono-C12-18-alkyl esters, sodium salts:**

Germ cell mutagenicity- Assessment

: In vitro tests did not show mutagenic effects

### **Carcinogenicity**

#### **Components:**

##### **azoxystrobin:**

Carcinogenicity - Assessment

: No evidence of carcinogenicity in animal studies.

### **Reproductive toxicity**

#### **Components:**

##### **azoxystrobin:**

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Reproductive toxicity - Assessment : No toxicity to reproduction

### Repeated dose toxicity

#### Components:

#### **azoxystrobin:**

Remarks: No adverse effect has been observed in chronic toxicity tests.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.1 mg/l  
Exposure time: 96 h  
  
LC50 (Lepomis macrochirus (Bluegill sunfish)): 2.4 mg/l  
Exposure time: 96 h  
  
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.0018 mg/l  
Exposure time: 48 h  
  
Toxicity to algae : EbC50 (Pseudokirchneriella subcapitata (green algae)): 0.12 mg/l  
Exposure time: 72 h  
  
ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.95 mg/l  
Exposure time: 72 h

#### Components:

#### **azoxystrobin:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.47 mg/l  
Exposure time: 96 h  
  
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.28 mg/l  
Exposure time: 48 h  
  
EC50 (Americamysis bahia (Mysid shrimp)): 0.055 mg/l  
Exposure time: 96 h  
  
Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 2 mg/l  
Exposure time: 96 h  
  
NOEC (Pseudokirchneriella subcapitata (green algae)): 0.038 mg/l  
End point: Growth rate  
Exposure time: 96 h  
  
ErC50 (Navicula pelliculosa (Freshwater diatom)): 0.301 mg/l  
Exposure time: 96 h

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M-Factor (Acute aquatic toxicity) : 10

Toxicity to microorganisms : IC50 (*Pseudomonas putida*): > 3.2 mg/l  
Exposure time: 6 h

Toxicity to fish (Chronic toxicity) : NOEC: 0.16 mg/l  
Exposure time: 28 d  
Species: *Oncorhynchus mykiss* (rainbow trout)

NOEC: 0.147 mg/l  
Exposure time: 33 d  
Species: *Pimephales promelas* (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.044 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)

NOEC: 0.0095 mg/l  
Exposure time: 28 d  
Species: *Americamysis bahia* (Mysid shrimp)

M-Factor (Chronic aquatic toxicity) : 10

### **sulfuric acid, mono-C12-18-alkyl esters, sodium salts:**

Toxicity to fish : LC50 : 17 mg/l  
Exposure time: 96 h  
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 15 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae : ErC50 (green algae): 20 mg/l  
Exposure time: 72 h

NOEC (green algae): 3 mg/l  
End point: Growth rate  
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Bacteria): 680 mg/l  
Exposure time: 3 h

Toxicity to fish (Chronic toxicity) : NOEC: 0.11 - 0.35 mg/l  
Exposure time: 34 d  
Species: Fish

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.419 mg/l  
Exposure time: 7 d  
Species: *Daphnia* (water flea)

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### Ecotoxicology Assessment

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

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

### 12.2 Persistence and degradability

#### Components:

#### **azoxystrobin:**

Biodegradability

: Result: Not readily biodegradable.

Stability in water

: Degradation half life: 214 d  
Remarks: The substance is stable in water.

#### **sulfuric acid, mono-C12-18-alkyl esters, sodium salts:**

Biodegradability

: Result: Readily biodegradable.

### 12.3 Bioaccumulative potential

#### Components:

#### **azoxystrobin:**

Bioaccumulation

: Remarks: Does not bioaccumulate.

### 12.4 Mobility in soil

#### Components:

#### **azoxystrobin:**

Distribution among environmental compartments

: Remarks: Azoxystrobin has low to very high mobility in soil.

Stability in soil

: Dissipation time: 80 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:

#### **azoxystrobin:**

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)..

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### 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.<br>Do not dispose of waste into sewer.<br>Where possible recycling is preferred to disposal or incineration.<br>If recycling is not practicable, dispose of in compliance with local regulations. |
| Contaminated packaging | : | Empty remaining contents.<br>Triple rinse containers.<br>Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>Do not re-use empty containers.  |
| Waste Code             | : | uncleaned packagings<br>150110, packaging containing residues of or contaminated by dangerous substances  |

## SECTION 14: Transport information

### 14.1 UN number

- |      |   |         |
|------|---|---------|
| ADN  | : | UN 3077 |
| ADR  | : | UN 3077 |
| RID  | : | UN 3077 |
| IMDG | : | UN 3077 |
| IATA | : | UN 3077 |

### 14.2 UN proper shipping name

- |      |   |  |
|------|---|--|
| ADN  | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(AZOXYSTROBIN) |
| ADR  | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(AZOXYSTROBIN) |
| RID  | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(AZOXYSTROBIN) |
| IMDG | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(AZOXYSTROBIN) |
| IATA | : | Environmentally hazardous substance, solid, n.o.s.<br>(AZOXYSTROBIN) |

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### 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 : M7  
Hazard Identification Number : 90  
Labels : 9

**ADR**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

**RID**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

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

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous

### 14.5 Environmental hazards

**ADN**  
Environmentally hazardous : yes

**ADR**  
Environmentally hazardous : yes

**RID**  
Environmentally hazardous : yes

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### IMDG

Marine pollutant : yes

### IATA (Passenger)

Marine pollutant : yes

### IATA (Cargo)

Marine pollutant : yes

### 14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

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

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.

Use plant protection products safely. Always read the label and product information before use.

### 15.2 Chemical safety assessment

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

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## SECTION 16: Other information

### Full text of H-Statements

H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H331	: Toxic if inhaled.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Acute aquatic toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Skin Irrit.	: Skin irritation

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

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Version	Revision Date:	SDS Number:	This version replaces all previous
12.0	15.06.2017	S1301109406	versions.

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; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

On basis of test data.
Calculation method

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 not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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