

## HERITAGE

Version 12.0      Revision Date: 17.02.2016      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

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

Use of the Sub-  
stance/Mixture : Fungicide

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

**Company** : Syngenta UK Limited  
CPC4, Capital Park  
Fulbourn  
Cambridge

**Telephone** : (01223) 883400

**Telefax** : (01223) 882195

**Website** : [www.syngenta.co.uk](http://www.syngenta.co.uk)

#### 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.

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

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Precautionary statements : **Response:**  
P391      Collect spillage.  
**Disposal:**  
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.

### 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. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
azoxystrobin	131860-33-8	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	Not Assigned	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 Syngenta emergency number, a poison control center or physician, or going for treatment.

If inhaled : Move the victim to fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Keep patient warm and at rest.  
Call a physician or poison control centre immediately.

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- 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.

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## 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 fire-fighting : 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.

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Further information : Do not allow run-off from fire fighting to enter drains or water courses.  
Cool closed containers exposed to fire with water spray.

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## 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.

### 6.4 Reference to other sections

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

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## 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
azoxystrobin	131860-33-8	TWA	4 mg/m <sup>3</sup>	Syngenta
kaolin	1332-58-7	TWA (alveolate dust)	3 mg/m <sup>3</sup>	CH SUVA
Further information	If the kaoline contains quartz, take its limit value into account			

#### 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.

If airborne dust is generated, use local exhaust ventilation controls.

Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.

Where necessary, seek additional occupational hygiene advice.

##### 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.  
Personal protective equipment should be certified to appropriate standards.

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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
pH	: 4 - 8, Concentration: 1 % w/v
Density	: 0.54 g/cm <sup>3</sup>
Explosive properties	: Classification Code: Not explosive
Oxidizing properties	: not oxidizing

#### 9.2 Other information

No data available

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

See section 10.3 "Possibility of hazardous reactions".

#### 10.2 Chemical stability

The product is stable when used in normal conditions

#### 10.3 Possibility of hazardous reactions

Hazardous reactions	: No hazardous reactions by normal handling and storage according to provisions.
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#### 10.4 Conditions to avoid

Conditions to avoid	: No decomposition if used as directed.
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#### 10.5 Incompatible materials

Materials to avoid	: No substances are known which lead to the formation of hazardous substances or thermal reactions.
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#### 10.6 Hazardous decomposition products

Combustion or thermal decomposition will evolve toxic and irritant vapors.

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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  
Assessment: The substance or mixture has no acute oral toxicity

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

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

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

###### **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

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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: No eye irritation

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

**Components:**

**azoxystrobin:**

Species: Rabbit

Result: No eye irritation

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



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### **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:**

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 : EC50 (Daphnia magna (Water flea)): 0.0018 mg/l

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aquatic invertebrates      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

NOErC (Pseudokirchneriella subcapitata (green algae)): 0.038 mg/l  
Exposure time: 96 h

ErC50 (Navicula pelliculosa (Freshwater diatom)): 0.301 mg/l  
Exposure time: 96 h

M-Factor (Acute aquatic toxicity)      : 10

Toxicity to bacteria      : 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

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### **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 (Algae): 20 mg/l  
Exposure time: 72 h  
  
NOErC (Algae): 3 mg/l  
Exposure time: 72 h

Toxicity to bacteria : 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)

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:**

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### **azoxystrobin:**

Distribution among environmental compartments : Remarks: Azoxystrobin has low to very high mobility in soil.

Stability in soil : Percentage dissipation: 50 % (DT50: 80 d)  
Remarks: Not persistent in soil.

## 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)..

## 12.6 Other adverse effects

### **Product:**

### **Components:**

#### **azoxystrobin:**

Additional ecological information : Remarks: No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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

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

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### SECTION 14: Transport information

#### Land transport (ADR/RID)

14.1 UN number:	UN 3077
14.2 UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (AZOXYSTROBIN)
14.3 Transport hazard class(es):	9
14.4 Packing group:	III
Labels:	9
14.5 Environmental hazards :	Environmentally hazardous
Tunnel restriction code:	E

#### Sea transport(IMDG)

14.1 UN number:	UN 3077
14.2 UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (AZOXYSTROBIN)
14.3 Transport hazard class(es):	9
14.4 Packing group:	III
Labels:	9
14.5 Environmental hazards :	Marine pollutant

#### Air transport (IATA-DGR)

14.1 UN number:	UN 3077
14.2 UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (AZOXYSTROBIN)
14.3 Transport hazard class(es):	9
14.4 Packing group:	III
Labels:	9

#### 14.6 Special precautions for user

none

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

Not applicable

### SECTION 15: Regulatory information

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

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.
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### 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

Approval number, MAPP 13536, PCS No. 02092.  
Use plant protection products safely. Always read the label and product information before use.  
Based upon SDS release dated 17/02/2016, version 12 with local amendment.

### 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.

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.

## MEDALLION TL

Version 4 - This version replaces all previous versions.

Revision Date 06.09.2013

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

**Product name** : MEDALLION TL

**Design code** : A17856B

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

**Use** : Fungicide

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

**Company** Syngenta UK Limited  
CPC4, Capital Park  
Cambridge, Fulbourn  
CB21 5XE

**Telephone** : (01223) 883400

**Telefax** : (01223) 882195

**Website** : [www.greencast.co.uk](http://www.greencast.co.uk)

#### 1.4 Emergency telephone number

: +44 (0) 1484 538444

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

N, Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Revision Date 06.09.2013

### 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.
Precautions Statements	:P273 :P391 :P501	Avoid release to the environment. Collect spillage. 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.
Supplemental Information	: EUH401	To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label:

Labelling: EU Directives 67/548/EEC or 1999/45/EC

Symbol(s)



### Dangerous for the environment

R-phrases)	R51/53	Toxic to aquatic organisms, may cause long-term
S-phrases):	S 2 S13 S20/21 S35 S57	Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. This material and its container must be disposed of in a safe way. Use appropriate container to avoid environmental contamination.
Additional Labelling		To avoid risks to man and the environment, comply with the instructions for use.

### 2.1 Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Hazardous components



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Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
fludioxonil	131341-86-1	N	Aquatic Acute1; H400 Aquatic Chronic1; H410	11.8 % W/W
propane-1,2-diol	57-55-6 200-338-0	-	-	5 - 10 % W/W
poly(oxy-1,2-ethanediyl), alpha-[tris(1-phenylethyl) phenyl]-omega-hydroxy-	99734-09-5 70559-25-0	R52/53	Aquatic Chronic3; H412	1 - 5 % W/W

Substances for which there are Community workplace exposure limits.

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

- General advice** : Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control center or physician, or going for treatment.
- Inhalation** : Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately.
- 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.
- 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.
- Ingestion** : 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

**Medical advice** : There is no specific antidote available.  
Treat symptomatically.

### SECTION 5. FIREFIGHTING MEASURES

- 5.1 Extinguishing media**  
Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Extinguishing media - large fires  
Use alcohol-resistant foam or water spray.  
Do not use a solid water stream as it may scatter and spread fire.
- 5.2 Special hazards arising from the substance or mixture**  
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 fire-fighters:**  
Wear full protective clothing and self-contained breathing apparatus. Do

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not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Refer to protective measures listed in sections 7 and 8.

#### 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

Refer to disposal considerations listed in section 13.

### SECTION 7. HANDLING AND STORAGE

#### 7.1 Precautions for 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

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

#### 7.3 Specific end use(s)

Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
fludioxonil	10 mg/m <sup>3</sup>	8 h TWA	SYNGENTA
propane-1,2-diol	10 mg/m <sup>3</sup> (Particulates) 150 ppm, 470 mg/m <sup>3</sup> (Total (vapour & particulates))	8 h TWA 8 h TWA	UK HSE UK HSE

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

#### 8.2 Exposure controls

**Engineering measures** : Containment and/or segregation is the most reliable technical protection

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	measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne dust is generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.
<b>Protective measures</b>	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. Personal protective equipment should be certified to appropriate standards.
<b>Respiratory protection</b>	No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.
<b>Hand protection</b>	Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements
<b>Eye protection</b>	Eye protection is not usually required. Follow any site specific eye protection policies.
<b>Skin and body protection</b>	No special protective equipment required. Select skin and body protection based on the physical job requirements.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Physical State</b>	: liquid
<b>Form</b>	: suspension
<b>Colour</b>	: Beige grey to grey green
<b>Odour</b>	: sweetish
<b>Odour Threshold</b>	: No data available
<b>pH</b>	: 5 – 9 at 1 % w/v
<b>Melting point/range</b>	: No data available
<b>Boiling point/boiling range</b>	: No data available
<b>Flash point</b>	: >100 °C at 99.2 kPa Pensky-Martens c.c.
<b>Evaporation rate</b>	: No data available
<b>Flammability (solid, gas)</b>	: No data available
<b>Lower explosion limit</b>	: No data available
<b>Upper explosion limit</b>	: No data available
<b>Vapour pressure</b>	: No data available
<b>Relative vapour density</b>	: No data available
<b>Density</b>	: 1.06 g/cm <sup>3</sup> at 20 °C
<b>Solubility in other solvents</b>	: No data available
<b>Partition Coefficient: n-octanol/water</b>	: No data available
<b>Autoignition temperature</b>	: 610 °C
<b>Thermal decomposition</b>	: No data available
<b>Viscosity, dynamic</b>	: 77 – 233 mPa.s at 20 °C 64 – 196 mPa.s at 40 °C
<b>Viscosity, kinematic</b>	: No data available
<b>Explosive properties</b>	: Not explosive
<b>Oxidizing properties</b>	: Not oxidising

### 9.2 Other information

**Surface tension** : 39.4 mN/m at 20 °C

## SECTION 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	: No information available
<b>10.2 Chemical Stability</b>	: No information available

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<b>10.3 Possibility of hazardous reactions</b>	:	None known. Hazardous polymerisation does not occur.
<b>10.4 Conditions to avoid</b>	:	No information available
<b>10.5 Incompatible materials</b>	:	No information available
<b>10.6 Hazardous decomposition products</b>	:	Combustion or thermal decomposition will evolve toxic and irritant vapours.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

<b>Acute oral toxicity</b>	:	LD50 female rat, 5,000 mg/kg
<b>Acute inhalational toxicity</b>	:	LC50 male and female rat, > 2.59 mg/l, 4 h
<b>Acute dermal toxicity</b>	:	LD50 male and female rat, > 5,000 mg/kg
<b>Skin corrosion/irritation</b>	:	rabbit: Non-irritating
<b>Serious eye damage/eye irritation</b>	:	rabbit: minimally irritating
<b>Respiratory or skin sensitisation</b>	:	Buehler Test guinea pig: Not a skin sensitizer
<b>Germ cell mutagenicity fludioxonil</b>	:	Did not show mutagenic effects in animal experiments.
<b>Carcinogenicity fludioxonil</b>	:	Did not show carcinogenic effects in animal experiments.
<b>Reproductive toxicity fludioxonil</b>	:	Did not show reproductive toxicity effects in animal experiments.
<b>STOT – repeated exposure fludioxonil</b>	:	No adverse effect has been observed in chronic toxicity tests.

### SECTION 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

<b>Toxicity to fish</b>	:	LC50 <i>Oncorhynchus mykiss</i> (rainbow trout), 5.4 mg/l, 96 h
<b>Toxicity to aquatic invertebrates</b>	:	EC50 <i>Daphnia magna</i> (water flea), 30 mg/l, 48 h
<b>Toxicity to aquatic plants</b>	:	EbC50 <i>Pseudokirchneriella subcapitata</i> (green algae), 4.5 mg/l, 96 h ErC50 <i>Pseudokirchneriella subcapitata</i> (green algae), 5.4 mg/l, 96 h

#### 12.2 Persistence and degradability

<b>Biodegradability</b>	:	fludioxonil : Not readily biodegradable.
<b>Stability in water</b>	:	fludioxonil : Degradation half life: 450 - 700 d. Stable in water
<b>Stability in soil</b>	:	fludioxonil : Degradation half life: 14 d. Not persistent in soil

#### 12.3 Bioaccumulative potential

fludioxonil : Does not bioaccumulate.

#### 12.4 Mobility in soil

fludioxonil : Fludioxonil is immobile in soil.

#### 12.5 Results of PBT and vPvB assessment

: Fludioxonil is not considered to be persistent, bioaccumulating nor toxic (PBT).  
Fludioxonil is not considered to be very persistent nor very bioaccumulating (vPvB).

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### 12.6 Other adverse effects

None known

### Other information

:Classification of the product is based on the summation of the concentrations of classified components.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

- Product** : Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
- Contaminated packaging** : Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

### Land transport (ADR/RID)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(FLUDIOXONIL)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Labels		:	9
14.5	Environmental hazards	:	Environmentally hazardous

### Sea transport(IMDG)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(FLUDIOXONIL)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Labels		:	9
14.5	Environmental hazards	:	Marine Pollutant

### Air transport (IATA-DGR)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(FLUDIOXONIL)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Labels		:	9
14.6	Special precautions for user	:	none

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

not applicable

## SECTION 15. REGULATORY INFORMATION

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

GHS-Labeling

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Hazard pictograms



Signal Word	:Warning	
Hazard Statements	:H410	Very toxic to aquatic life with long lasting effects.
Precautions Statements	:P273 :P391 :P501	Avoid release to the environment. Collect spillage. 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.
Supplemental Information	: EUH401	To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label:

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16. OTHER INFORMATION

Approval number, MAPP 15287.

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

Based upon SDS release dated 06/09/2013, version 4 with local amendment.

Full text of R-phrases referred to under sections 2 and 3:

- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3.

- H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

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.

Product names are a trademark or registered trademark of a Syngenta Group Company.

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

#### 1.1 Product identifier

Trade name : RYDER  
Design code : CA6242A

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

Use of the Sub-stance/Mixture : Colouring agents, pigments

#### 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 of person responsible for the SDS : 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)

Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H317 May cause an allergic skin reaction. H318 Causes serious eye damage.
Precautionary statements	:	<b>Prevention:</b> P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/ eye protection/ face protection. <b>Response:</b> P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse. <b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

alcohols, C12-15,ethoxylated  
1,2-benzisothiazol-3(2H)-one

### 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)
C.I. pigment green 7	1328-53-6 215-524-7	Eye Irrit. 2; H319	$\geq 70$ - $< 90$
alcohols, C12-15,ethoxylated	68131-39-5 500-195-7	Acute Tox. 4; H302 Eye Dam. 1; H318	$\geq 10$ - $< 20$
Fatty acids, tall-oil, diesters with	68648-12-4	Skin Irrit. 2; H315	$\geq 1$ - $< 10$



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polypropylene glycol		Eye Irrit. 2; H319	
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400	$\geq 0.1 - < 0.25$

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
- If inhaled : Move the victim to fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Keep patient warm and at rest.  
Call a physician or poison control centre immediately.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with plenty of water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Immediate medical attention is required.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.  
Do NOT induce vomiting.

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

- Symptoms : Nonspecific  
No symptoms known or expected.

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

- Treatment : There is no specific antidote available.  
Treat symptomatically.

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

#### 5.3 Advice for firefighters

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

### SECTION 6: Accidental release measures

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

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

#### 6.2 Environmental precautions

- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
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, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Clean contaminated surface thoroughly.  
Clean with detergents. Avoid solvents.  
Retain and dispose of contaminated wash water.

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### 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.

### 7.3 Specific end use(s)

Specific use(s) : For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
C.I. pigment green 7	1328-53-6	TWA (Dusts and mists)	1 mg/m <sup>3</sup> (Copper)	GB EH40
	1328-53-6	STEL (Dusts and mists)	2 mg/m <sup>3</sup> (Copper)	GB EH40
carbon black	1333-86-4	TWA	3.5 mg/m <sup>3</sup>	GB EH40
	1333-86-4	STEL	7 mg/m <sup>3</sup>	GB EH40

### 8.2 Exposure controls

#### Engineering measures

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

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

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

#### Personal protective equipment

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Eye protection : Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.  
Tightly fitting safety goggles  
Face-shield

Use eye protection according to EN 166.

### Hand protection

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

Remarks : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Suitable respiratory equipment:  
Respirator with combination filter for vapour/particulate (EN 141)  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Filter type : Combined particulates and organic vapour type (A-P)

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

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### SECTION 9: Physical and chemical properties

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

Appearance	:	liquid
Colour	:	green
Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	$\geq 7$
<b>Melting point/range</b>	:	No data available
<b>Boiling point/boiling range</b>	:	$> 100$ °C
Flash point	:	does not flash
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	1.272 g/cm <sup>3</sup>
Solubility(ies)		
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

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### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None reasonably foreseeable.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

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

### 10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Ingestion  
Inhalation  
Skin contact  
Eye contact

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

##### Components:

### **|| C.I. pigment green 7:**

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

Acute inhalation toxicity : Assessment: The component/mixture is minimally toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): > 3,000 mg/kg

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### || alcohols, C12-15,ethoxylated:

Acute oral toxicity : LD50 (Rat): 1,000 - 2,000 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

### || Fatty acids, tall-oil, diesters with polypropylene glycol:

Acute oral toxicity : Assessment: The component/mixture is minimally toxic after single ingestion.

### || 1,2-benzisothiazol-3(2H)-one:

Acute oral toxicity : Acute toxicity estimate: 500.0 mg/kg  
Method: Converted acute toxicity point estimate

Assessment: The component/mixture is moderately toxic after single ingestion.

### Skin corrosion/irritation

#### Components:

### || C.I. pigment green 7:

Result : Mild skin irritation

### || Fatty acids, tall-oil, diesters with polypropylene glycol:

Result : Irritating to skin.

### || 1,2-benzisothiazol-3(2H)-one:

Assessment : Irritating to skin.

### Serious eye damage/eye irritation

#### Components:

### || C.I. pigment green 7:

Result : Irritation to eyes, reversing within 7 days

### || alcohols, C12-15,ethoxylated:

Species : Rabbit  
Result : Risk of serious damage to eyes.  
Remarks : Information given is based on data obtained from similar substances.

### || Fatty acids, tall-oil, diesters with polypropylene glycol:

Result : Eye irritation

### || 1,2-benzisothiazol-3(2H)-one:

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Result : Irreversible effects on the eye

### Respiratory or skin sensitisation

#### Product:

Result : May cause sensitisation by skin contact.  
Remarks : Experience with human exposure

#### Components:

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

Result : May cause sensitisation by skin contact.

### Further information

#### Product:

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **|| C.I. pigment green 7:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1,000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 5,600 mg/l  
Exposure time: 24 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l  
Exposure time: 72 h

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

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available



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### 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..

### 12.6 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Where possible recycling is preferred to disposal or incineration. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

Contaminated packaging : Dispose of as unused product.

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## SECTION 14: Transport information

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 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

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according to Regulation (EC) No. 1907/2006



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- Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable
- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable
- REACH - List of substances subject to authorisation (Annex XIV) : Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
- Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable
- REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: (3)
- Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

### 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.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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.

## SECTION 16: Other information

### Full text of H-Statements

- H302 : Harmful if swallowed.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H400 : Very toxic to aquatic life.

### Full text of other abbreviations

- Acute Tox. : Acute toxicity  
Aquatic Acute : Acute aquatic toxicity  
Eye Dam. : Serious eye damage

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Eye Irrit.	:	Eye irritation
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

#### Classification procedure:

Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	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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