

CLAYTON PLANT PROTECTION

CLAYTON BASTILLE Safety Data Sheet according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010.
Version 1/KE 26/03/2015. This version replaces all previous versions.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name : CLAYTON BASTILLE

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

Clayton Plant Protection (UK) Ltd., Bracetown Business Park, Clonee, Dublin15. Ireland.
Tel: (00 353) 1 8210127 www.cpp.ag Email: info@cpp.ag

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

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

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 :P102 Keep out of reach of children
:P270 Do not eat, drink or smoke when using this product
:P273 Avoid release to the environment
:P391 Collect spillage

: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.


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

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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	:R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases	:S2 Keep out of the reach of children :S13 Keep away from food, drink and animal feedingstuffs. :S20/21 When using do not eat, drink or smoke. :S35 This material and its container must be disposed of in a safe way. :S57 Use appropriate containment to avoid environmental contamination.
Special labelling of certain mixtures	To avoid risks to man and the environment, comply with instructions for use.

2.3 Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS No. EC No. Registration Number	Classification (67/548/EEC)	Classification (REGULATION (EC) No. 1272/2008)	Concentration
Azoxystrobin	131860-33-8	T, N R23 R50/53	Acute Tox.3; H331 Aquatic Acute1; H400 Aquatic Chronic1; H410	22.9 % w/w
alcohols, C16-18, ethoxylated	68439-49-6	Xn R22 R41	Eye Dam.1; H318 Acute Tox. 4; H302	10 - 18 % w/w
Naphthalenesulphonic acid, dimethyl-, polymer with formaldehyde and methyl-naphthalenesulfonic acid, sodium salt.	9008-63-3	Xi R36/38	Eye Irrit.2; H319 Skin Irrit.2; H315	1 - 5 % w/w
Propane-1,2-diol	57-55-6 200-338-0	-		4 - 12 % 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.

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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 an emergency number, a poison control centre 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: contains petroleum distillates and/or aromatic solvents.

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 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

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- 6.3 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). If the product contaminates rivers and lakes or drains inform respective authorities.
- 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
azoxystrobin	2 mg/m ³	8 h TWA	SYNGENTA
Propane-1,2-diol	10 mg/m ³ (particulates) 150 ppm, 470 mg/m ³	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 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.
- 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.
- Respiratory protection** No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical

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Hand protection	measures are installed Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements.
Eye protection	Eye protection is not usually required. Follow any site specific eye protection policies.
Skin and body protection	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

Physical State	: Liquid
Form	: Liquid
Colour	: Off-white to yellow-orange
Odour	: No data available
Odour Threshold	: No data available
pH	: 5-9 at 1% w/v
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: > 97 °C at 97.5 kPa Pensky-Martens c.c.
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: 1.1 g/ml 1.09 g/cm ³
Solubility in other solvents	: No data available
Partition Coefficient n-octanol/water	: No data available
Autoignition temperature	: 475 °C
Thermal decomposition	: No data available
Viscosity, dynamic	: 76.0 – 427 mPa.s at 40 °C 117 – 541 mPa.s at 20 °C
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not oxidising

9.2 Other information

Miscibility	: Miscible
Surface tension	: 32.0 mN/m at 20 °C

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	: No information available
10.2 Chemical Stability	: No information available
10.3 Possibility of hazardous reactions	: None known. Hazardous polymerisation does not occur.
10.4 Conditions to avoid	: No information available
10.5 Incompatible materials	: No information available
10.6 Hazardous decomposition	: Combustion or thermal decomposition will evolve

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products

toxic and irritant vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	: LD50 rat, >2000 mg/kg The toxicological data has been taken from products of similar composition.
Acute inhalational toxicity	: LC50 rat, > 6.32 mg/ml, 4h The toxicological data has been taken from products of similar composition.
Acute dermal toxicity	: LD50 rat, >2000 mg/kg The toxicological data has been taken from products of similar composition.
Skin corrosion/irritation	: Rabbit: non-irritating The toxicological data has been taken from products of similar composition
Serious eye damage/eye irritation	: Rabbit: non-irritating The toxicological data has been taken from products of similar composition
Respiratory or skin sensitisation	: Guinea pig: not sensitising The toxicological data has been taken from products of similar composition
Germ cell mutagenicity	: Did not show mutagenic effects in animal experiments.
Carcinogenicity	: Did not show carcinogenic effects in animal experiments.
Reproductive toxicity	: Did not show reproductive toxicity effects in animal experiments.
STOT – repeated exposure	: No adverse effect has been observed in chronic toxicity tests.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	: LC50 <i>Oncorhynchus mykiss</i> (rainbow trout), 1.2 mg/l, 96 h LC50 <i>Cyprinus carpio</i> (Carp), 2.8 mg/l, 96 h
Toxicity to aquatic invertebrates	: EC50 <i>Daphnia magna</i> (Water flea), 0.83 mg/l, 48 h
Toxicity to aquatic plants	: ErC50 <i>Pseudokirchneriella subcapitata</i> (green algae), 2.2 mg/l, 72 h

12.2 Persistence and degradability

Biodegradability	: Not readily biodegradable
Stability in water	: Degradation half life: 214 d. Stable in water
Stability in soil	: Degradation half life: 80 d. Not persistent in soil

12.3 Bioaccumulative potential

azoxystrobin	: Does not bioaccumulate.
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12.4 Mobility in soil

azoxystrobin	: The substance has low to very high mobility in soil.
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12.5 Results of PBT and vPvB assessment

azoxystrobin	: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
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12.6 Other adverse effects : None known

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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 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. (AZOXYSTROBIN)
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. (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 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, 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

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

not applicable


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SECTION 15: REGULATORY INFORMATION

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

GHS-Labeling

Hazard pictograms		
		
Signal Word	:	Warning
Hazard Statements	:	H410 Very toxic to aquatic life with long lasting effects
Precautions Statements	:	P102 Keep out of reach of children
	:	P270 Do not eat, drink or smoke when using this product
	:	P273 Avoid release to the environment
	:	P391 Collect spillage
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

Further information : Approval number, MAPP17012.

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

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

- R22 Harmful if swallowed
- R23 Toxic by inhalation
- R36/38 Irritating to eyes and skin
- R41 Risk of serious damage to eyes
- R50/53 Very toxic 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.

- H302 Harmful if swallowed
- 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.