

CLAYTON PLANT PROTECTION

CLAYTON GOLDCOB Safety Data Sheet according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010. Version 1/dsc 16/01/2015. 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 GOLDCOB

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

Use : Herbicide

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

Eye irritation	Category 2	H319
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410

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

Xi	Irritant
N	Dangerous for the environment
R36	Irritating to eyes
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 :H319 Causes serious eye irritation
:H410 Very toxic to aquatic life with long lasting effects

Precautions Statements :P102 Keep out of reach of children
:P280 Wear eye protection/face protection
:P305/P351/P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
:P337/313 If eye irritation persists: Get medical advice/attention.
: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.

Hazardous components which must be listed on the label:

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

Symbol(s)	
	
Irritant	Dangerous for the environment
R-phrases(s)	:R36 Irritant to eyes :R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
S-phrases(s)	:S2 Keep out of the reach of children. :S13 Keep away from food, drink and animal feeding stuffs. :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.

Hazardous components which must be listed on the label:

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
mesotrione	104206-82-8	N R50/53	Aquatic Acute1; H400 Aquatic Chronic1; H410	9 % w/w
2-(8-methylnonyloxy) ethanol	61827-42-7	Xn R22 R41 R52/53	Acute Tox.4; H302 Eye Dam.1; H318 Aquatic Chronic3; H412	20 – 30 % w/w
Octan-1-ol	111-87-5 203-917-6	Xi R36	Eye Irrit.2; H319	5 – 10 % 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 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.

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.

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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 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 feeding stuffs.
- 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
mesotrione	10 mg/m ³	8 h TWA	SYNGENTA

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 mists or vapours are 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.

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Respiratory protection	: No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.
Hand protection	: Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements.
Eye Protection	: If eye contact is possible, use tight-fitting chemical safety goggles.
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	: Light brown
Odour	: Like octanol
Odour Threshold	: No data available
pH	: 2.2 at 20 °C
Melting point/range	: < -5 °C
Boiling point/boiling range	: > 100 °C
Flash point	: 90 °C 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	: 1.09 g/ml at 20 °C
Solubility in other solvents	: Miscible in water
Partition Coefficient n-octanol/water	: No data available
Autoignition temperature	: 395 °C
Thermal decomposition	: No data available
Viscosity, dynamic	: 1,990 m Pa.s at 20 °C. ,060 mPa.s at 40 °C
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not oxidising

9.2 Other information

Surface tension	29.1 mN/m at 21 °C
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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 products	: Combustion or thermal decomposition will evolve toxic and irritant vapours.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	: LD50 female rat, > 2,000 mg/kg
Acute dermal toxicity	: LD50 rat, > 2,000 mg/kg
Skin corrosion/irritation	: Rabbit: non-irritating
Serious eye damage/eye irritation	: Rabbit: moderately irritating
Respiratory or skin sensitisation	: Buehler test guinea pig: not a skin sensitiser in animal tests
Germ cell mutagenicity	:
Mesotrione	: Did not show mutagenic effects in animal experiments.
Octan-1-ol	: Not mutagenic in Ames Test.
Carcinogenicity	:
mesotrione	: Did not show carcinogenic effects in animal experiments.
Reproductive toxicity	:
Mesotrione	: Did not show reproductive toxicity effects in animal experiments.
Octan-1-ol	: No toxicity to reproduction.
STOT – repeated exposure	:
mesotrione	: No adverse effect has been observed in chronic toxicity tests.

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SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

- Toxicity to fish** : LC50 *Cyprinus carpio* (Carp), 71 mg/l, 96 h
Toxicity to aquatic invertebrates : EC50 *Daphnia magna* (Water flea), 49 mg/l, 48 h
Toxicity to aquatic plants : EbC50 *Pseudokirchneriella supcapitata* (green algae), 72 mg/l, 96 h
ErC50 *Pseudokirchneriella supcapitata* (green algae), > 100 mg/l, 96h
EC50 Frond growth *Lemna gibba* (duckweed), calculated 0.23 mg/l, 14d
Derived from components.

12.2 Persistence and degradability

Stability in water mesotrione	:	Degradation half life: > 30 d at 25 °C. Persistent in water
Stability in soil mesotrione	:	Degradation half life: 6 - 105 d. Not persistent in soil

12.3 Bioaccumulative potential

- mesotrione : The substance has low potential for bioaccumulation.

12.4 Mobility in soil

- mesotrione : mesotrione has medium to high mobility in soil.

12.5 Results of PBT and vPvB assessment

- mesotrione : 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).

12.6 Other adverse effects : None known.

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. (MESOTRIONE)
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. (MESOTRIONE)
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. (MESOTRIONE)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Labels		:	9
14.6	Special precautions for user	:	none

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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

GHS-Labeling

Hazard pictograms



Signal Word : Warning

Hazard Statements :H319 Causes serious eye irritation
:H410 Very toxic to aquatic life with long lasting effects

Precautions Statements :P102 Keep out of reach of children
:P280 Wear eye protection/face protection
:P305/P351/P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
:P337/313 If eye irritation persists: Get medical advice/attention.
: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.

Hazardous components which must be listed on the label: terbuthylazine

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16. OTHER INFORMATION

Approval number, MAPP 16299.

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
R36 Irritating to eyes
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.
H318 Causes serious eye damage
H319 Causes serious eye irritation
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.