

CLAYTON PLANT PROTECTION

CLAYTON MACAW Safety Data Sheet according to Regulation (EU) No. 1907/2006. Version 1/dsc 16/06/2020
This version replaces all previous versions

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

1.1. Product identifier CLAYTON MACAW

1.2. Relevant identified uses of the substance or mixture and uses advised. FUNGICIDE

1.3. Details of the supplier of the safety data sheet : Marketing Company in UK

Clayton Plant Protection (UK) Ltd., Bracetown Business Park, Clonee, Dublin. D15YT2T Ireland.

Tel: (00 353) 1 8210127 www.claytonpp.com Email: info@claytonpp.com

SECTION 2: Hazards Identification

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 2 H411, EUH401

For the classifications not written out in full in this section the full text can be found in section 16.

2.2 Label elements

Globally Harmonized System (GHS) in accordance with UK regulations.

Hazard pictograms



Hazard Statement:

H411 Toxic to aquatic life with long lasting effects.

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

Precautionary Statement:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary Statements (Response):

P391 Collect spillage.

Precautionary Statements (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.

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: DIMETHOMORPH

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

See section 12 - Results of PBT and vPvB assessment. If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/Information on Ingredients

3.1. Substances : Not applicable

3.2. Mixtures

Chemical nature : crop protection product, fungicide, Wettable powder (WP) Hazardous ingredients (GHS) according to Regulation (EC) No. 1272/2008

dimethomorph (ISO) : 4-(3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)acryloyl)morpholine

Content (W/W): 50 % CAS Number: 110488-70-5 EC-Number: 404-200-2 INDEX-Number: 613-102-00-0

Aquatic Chronic 2 H411

Sodium diisopropylnaphthalenesulphonate:

Content (W/W): < 5 % CAS Number: 1322-93-6 EC-Number: 215-343-3 Acute Tox. 4 (oral) Skin Corr./Irrit. 2

Eye Dam./Irrit. 2 H319, H315, H302

Kaolin : Content (W/W): < 45 % CAS Number: 1332-58-7 EC-Number: 310-194-1

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures : Remove contaminated clothing.

Show container, label and/or safety data sheet to physician.

If inhaled: Keep patient calm, remove to fresh air.

On skin contact: Wash thoroughly with soap and water.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

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

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Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

4.3. Indication of any immediate medical attention and special treatment needed Treatment:
Symptomatic treatment (decontamination, vital functions).

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media : Suitable extinguishing media: dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons: carbon dioxide

5.2. Special hazards arising from the substance or mixture : carbon monoxide, Hydrogen chloride, Carbon dioxide, nitrogen oxides, organochloric compounds. The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters : Special protective equipment: Wear self-contained breathing apparatus and chemical protective clothing. Further information: In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures : Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Avoid dust formation.

6.2. Environmental precautions : Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

6.3. Methods and material for containment and cleaning up : For small amounts: Contain with dust binding material and dispose of. For large amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Avoid raising dust.

6.4. Reference to other sections Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling : No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion : Dust can form an explosive mixture with air. Avoid dust formation. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

7.2. Conditions for safe storage, including any incompatibilities : Segregate from foods and animal feeds. Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

7.3. Specific end use(s) : For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits :

1332-58-7: Kaolin TWA value 2 mg/m³ (WEL/EH 40 (UK)), Respirable dust

Refer to the current edition of HSE Guidance Note EH40 Occupational Exposure Limits (United Kingdom). For normal use and handling refer to the product label/leaflet.

8.2. Exposure controls : Personal protective equipment.

Respiratory protection: Respiratory protection not required.

Hand protection: Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact

(Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc. Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust). General safety and hygiene measures : The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Keep away from food, drink and animal feeding stuffs. Store work clothing separately.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

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Form: powder

Colour: white

Odour: slight odour, sweetish

Odour threshold: Not determined due to potential health hazard by inhalation. pH value: approx. 4 - 6 (10 g/l, 20 °C)

Melting point: approx. 125 - 149 °C The values mentioned are those of the active ingredient. Boiling point: The product is a non-volatile solid.

Flash point: not applicable

Evaporation rate: not applicable

Flammability: Based on the structure or composition there is no indication of flammability.(Directive 92/69/EEC, A.10)

Lower explosion limit: No hazard is expected if the product is used appropriately in accordance with the intended use.

Upper explosion limit: No hazard is expected if the product is used appropriately in accordance with the intended use.

Vapour pressure: negligible

Relative vapour density (air): not applicable

Solubility in water: dispersible. Information on: dimethomorph (ISO); 4-(3-(4-chlorophenyl)-3-(3,4dimethoxyphenyl)--- -- acryloyl)morpholine

Partitioning coefficient n-octanol/water (log Kow): 2.63 - 2.73 (20 °C)

Self ignition: Temperature: 386 °C (Method: Regulation 440/2008/EC, A.16)

Thermal decomposition: 115 °C, 30 kJ/kg, (DSC (OECD 113)) 340 °C, 850 kJ/kg, (DSC (OECD 113)) Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.

Viscosity, dynamic: not applicable, the product is a solid.

Explosion hazard: not explosive (Regulation 440/2008/EC, A.14)

Fire promoting properties: not fire-propagating (Regulation 440/2008/EC, A.17)

9.2. Other information : Bulk density: approx. 281 - 345 kg/m³

SECTION 10: Stability and Reactivity

10.1. Reactivity No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions No hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to avoid See MSDS section 7 - Handling and storage.

10.5. Incompatible materials : Substances to avoid: strong acids, strong bases, strong oxidizing agents 10.6.

Hazardous decomposition products : No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects Acute toxicity :

Assessment of acute toxicity: Of low toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Experimental/calculated data: LD50 rat (oral): 2,939 mg/kg (OECD Guideline 401) LC50 rat (by inhalation): > 2.0 mg/l 4 h (OECD Guideline 403) No mortality was observed. Highest concentration available for testing. Tested as dust aerosol.

LD50 rat (dermal): > 2,000 mg/kg (OECD Guideline 402) No mortality was observed.

Irritation

Assessment of irritating effects: Not irritating to the eyes. Not irritating to the skin. Experimental/calculated data: Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization Assessment of sensitization:

There is no evidence of a skin-sensitizing potential. Experimental/calculated data: Buehler test guinea pig:

Nonsensitizing. (OECD Guideline 406) Germ cell mutagenicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Information on: Kaolin Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests. However, the relevance of this result for humans is unclear.

Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Specific target organ toxicity (single exposure)

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Assessment of STOT single: Based on the available information there is no specific target organ toxicity to be expected after a single exposure. Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. Information on: Kaolin Assessment of repeated dose toxicity: Repeated inhalative uptake of particles/dust reaching the alveoli may cause damage to the lungs.

Aspiration hazard

No aspiration hazard expected. The product has not been tested. The statement has been derived from the properties of the individual components.

Other relevant toxicity information : Misuse can be harmful to health.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity: Toxic to aquatic life with long lasting effects.

Toxicity to fish: LC50 (96 h) 15.3 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203, static)

Aquatic invertebrates: EC50 (48 h) 14.2 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants: EC10 (72 h) 21.9 mg/l (growth rate), *Scenedesmus subspicatus* (OECD Guideline 201, static)

EC50 (72 h) 60.2 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)

No observed effect concentration 3.125 mg/l (growth rate), *Lemna gibba* (static)

EC50 (7 d) > 100 mg/l (growth rate), *Lemna gibba* (static)

Chronic toxicity to fish: No observed effect concentration (21 d) 0.12 mg/l, *Oncorhynchus mykiss*

EC10 (21 d) 1.22 mg/l, *Oncorhynchus mykiss*

Chronic toxicity to aquatic invertebrates: No observed effect concentration (22 d) 2.5 mg/l, *Daphnia magna*

EC10 (22 d) 1.22 mg/l, *Daphnia magna*

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O): The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: dimethomorph (ISO); 4-(3-(4-chlorophenyl)-3-(3,4dimethoxyphenyl)acryloyl)morpholine Assessment biodegradation and elimination (H₂O): Not readily biodegradable (by OECD criteria).

12.3. Bioaccumulative potential

Assessment bioaccumulation potential: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: dimethomorph (ISO); 4-(3-(4-chlorophenyl)-3-(3,4dimethoxyphenyl)acryloyl)morpholine

Bioaccumulation potential: No significant accumulation in organisms is expected as a result of the distribution coefficient of octanol/water (log Pow).

12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: dimethomorph (ISO); 4-(3-(4-chlorophenyl)-3-(3,4dimethoxyphenyl)acryloyl)morpholine Assessment

transport between environmental compartments: Volatility: The substance will not evaporate into the atmosphere from the water surface. Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

12.5. Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects : The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.7. Additional information . Other ecotoxicological advice: Do not discharge product into the environment without control.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods : Must be disposed of or incinerated in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom). This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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SECTION 14: Transport Information

14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group 14.5. Environmental hazards 14.6. Special precautions for user	See corresponding entries for the respective regulations in the tables below
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Land transport :

ADR	UN number UN3077 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains DIMETHOMORPH) Transport hazard class(es): 9, EHSM Packing group: III Environmental hazards: yes Special precautions for user: Tunnel code: E
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RID	UN number UN3077 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains DIMETHOMORPH) Transport hazard class(es): 9, EHSM Packing group: III Environmental hazards: yes Special precautions for user: None known
Inland waterway transport : ADN	UN number UN3077 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains DIMETHOMORPH) Transport hazard class(es): 9, EHSM Packing group: III Environmental hazards: yes Special precautions for user: None known Transport in inland waterway vessel Not evaluated
Sea transport : IMDG	UN number: UN 3077 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains DIMETHOMORPH) Transport hazard class(es): 9, EHSM Packing group: III Environmental hazards: yes Marine pollutant: YES Special precautions for user: None known
Air transport : IATA/ICAO	UN number: UN 3077 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains DIMETHOMORPH) Transport hazard class(es): 9, EHSM Packing group: III Environmental hazards: yes Special precautions for user: None known

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Regulation: Not evaluated Shipment approved: Not evaluated Pollution name: Not evaluated Pollution category: Not evaluated Ship Type: Not evaluated Further information : This product is subject to the most recent edition of "The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations" and their amendments (United Kingdom).

SECTION 15: Regulatory Information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom). This product is

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classified under the European CLP Regulation. (United Kingdom) This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (United Kingdom).

15.2. Chemical Safety Assessment : Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

SECTION 16: Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3: Aquatic Chronic Hazardous to the aquatic environment - chronic Acute Tox. Acute toxicity Skin Corr./Irrit. Skin corrosion/irritation Eye Dam./Irrit. Serious eye damage/eye irritation H411 Toxic to aquatic life with long lasting effects. EUH401 To avoid risks to human health and the environment, comply with the instructions for use. H319 Causes serious eye irritation. H315 Causes skin irritation. H302 Harmful if swallowed.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
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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