

CLAYTON PLANT PROTECTION

CLAYTON BARITONE Safety Data Sheet according to Regulation (EU) No. 1907/2006. Version 1/dsc 03/02/2021
This version replaces all previous versions

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

1.1. Product identifier CLAYTON BARITONE

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

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

Acute Tox. 4 (oral) Eye Dam./Irrit. 1 Skin Sens. 1

H318, H302, H317, 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

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

Tebuconazole

Prothioconazole

N,N-Dimethyl decanamid

Hazard pictograms



Signal word: DANGER

Hazard Statement: H318 Causes serious eye damage.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

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 (Prevention):

P280 Wear protective gloves and eye/face protection.

P261 Avoid breathing dust.

P272 Contaminated work clothing should not be allowed out of the workplace.

P270 Do not eat, drink or smoke when using this product.

P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician.

P303 + P361 + P353 IF ON SKIN (or hair): Wash with plenty of soap and water.

P330 Rinse mouth.

P362 + P364 Take off contaminated clothing and wash it before reuse.

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: 3-ISOPROPYL-1H-2,1,3-BENZOTHIADIAZIN-4(3H)- ONE 2,2-DIOXIDE, SODIUM SALT

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

SECTION 3: Composition/Information on Ingredients

3.1. Substances Not applicable

3.2. Mixtures Chemical nature crop protection product, herbicide, water soluble granules (SG)

Hazardous ingredients (GHS) according to Regulation (EC) No. 1272/2008 3-Isopropyl-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2-dioxide, sodium salt Content (W/W): 96.6 % Eye Dam./Irrit. 2 Skin Sens. 1A Aquatic Chronic 3 H319, H317, H412

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.

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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, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact: Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion: Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

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: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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, Sulphur dioxide, Carbon dioxide, Nitrogen oxides. 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: 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.

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: Accidental Release Measures

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

6.2. Environmental precautions 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. Avoid raising dust. 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.

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: Avoid dust formation. Dust can form an explosive mixture with air. 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.

Protect from temperatures above: 40 °C Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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. 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. No occupational exposure limits known.

8.2. Exposure controls. Personal protective equipment

Respiratory protection: Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

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: Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

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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. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form: granules

Colour: yellow

Odour: faint specific odour, aromatic

Odour threshold: Not determined due to potential health hazard by inhalation.

pH value: approx. 6 - 8 (CIPAC standard water D, 10 g/l, 20 °C)

Melting point: > 20 °C

Boiling point: not determined

Flash point: not applicable

Evaporation rate: not applicable

Flammability: not highly flammable (Directive 84/449/EEC, A.10)

Lower explosion limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Upper explosion limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Vapour pressure: The product has not been tested.

Relative vapour density (air): not applicable

Solubility in water: water soluble granules (SG), soluble. Information on 3-Isopropyl-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2-dioxide, sodium salt.

Partitioning coefficient n-octanol/water (log Kow): 0.77 (pH value: 5)

Self ignition: not self-igniting (Method: UN Test N.2 (pyrophoric solids))

Thermal decomposition: 160 °C, 360 kJ/kg, (DSC (OECD 113)) (onset temperature) 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: Based on the chemical structure there is no indicating of explosive properties.

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

9.2. Other information

Bulk density: 661 - 709 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 bases, strong acids, 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 moderate toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data: LD50 rat (oral): > 500 - < 1,000 mg/kg (OECD Guideline 401) LC50 rat (by inhalation): > 5.5 mg/l 4 h (OECD Guideline 403) An aerosol was tested.

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

Irritation. Assessment of irritating effects: May cause severe damage 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: Risk of serious damage to eyes. (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization: Sensitization after skin contact possible. Experimental/calculated data: Guinea pig maximization test guinea pig: sensitizing

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. The results of various animal studies gave no indication of a carcinogenic effect.

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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)

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. No substance-specific organ toxicity was observed after repeated administration to animals.

Aspiration hazard

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

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

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Toxicity to fish: LC50 (96 h) > 100 mg/l, *Oncorhynchus mykiss* (EPA 72-1, static)

Aquatic invertebrates: EC50 (48 h) > 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1)

Aquatic plants:

EC50 (72 h) > 100 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201)

EC10 (72 h) 13.5 mg/l, *Pseudokirchneriella subcapitata* (OECD Guideline 201)

EC50 (7 d) 11.1 mg/l, *Lemna gibba* (Growth Inhibition Test)

EC10 (7 d) 2.5 mg/l, *Lemna gibba* (Growth Inhibition Test)

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 3-Isopropyl-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2-dioxide, sodium salt 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 3-Isopropyl-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2-dioxide, sodium salt

Bioaccumulation potential: Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

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 3-Isopropyl-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2-dioxide, sodium salt

Assessment transport between environmental compartments: Adsorption in soil: Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

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

Land transport ADR

Not classified as a dangerous good under transport regulations

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user None known

RID Not classified as a dangerous good under transport regulations

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user None known

Inland waterway transport ADN

Not classified as a dangerous good under transport regulations

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user: None known

Transport in inland waterway vessel : Not evaluated

Sea transport IMDG

Not classified as a dangerous good under transport regulations

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user None known

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user None known

14.1. UN number See corresponding entries for "UN number" for the respective regulations in the tables above.

14.2. UN proper shipping name See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es) See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

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

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.

This product is classified under the European CLP Regulation.

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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).
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:
Acute Tox. Acute toxicity
Eye Dam./Irrit. Serious eye damage/eye irritation
Skin Sens. Skin sensitization
Aquatic Chronic Hazardous to the aquatic environment - chronic
H318 Causes serious eye damage.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
EUH401 To avoid risks to human health and the environment, comply with the instructions for use. H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.
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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