

CLAYTON PLANT PROTECTION

CLAYTON CORE Safety Data Sheet according to Regulation (EU) No. 453/2010. Version 1/dsc 06/03/2015
This version replaces all previous versions

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

1.1. Product identifier **CLAYTON CORE**

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use Fungicide. Uses advised against No information available

1.3. Details of the supplier of the safety data sheet : 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: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation Category 2 - (H319)

Skin sensitisation Category 1 - (H317)

Carcinogenicity Category 2 - (H351)

Acute aquatic toxicity Category 1 - (H400)

Classification according to Directive 67/548/EEC or 1999/45/EC.

Full text of R-phrases: see Section 16. Carc. cat. 3;R40 - Xi;R36 - R43 - N;R50

2.2. Label elements. Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Signal word Warning

Hazard statements

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H351 - Suspected of causing cancer

H400 - Very toxic to aquatic life

Precautionary statements

P102 - Keep out of reach of children

P201 - Obtain special instructions before use

P281 - Use personal protective equipment as required

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

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

P501 - Dispose of contents/container to an approved waste disposal plant

EU Specific hazard statements

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

Additional phrases for PPP SP1 - Do not contaminate water with the product or its container

2.3. Other hazards : No information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | Weight -% | CAS No | EC No | Index No | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Classification according to 67/548/EEC | M- Factor | REACH Registr ation Number |
|---|--------------|----------------|---------------|-----------------|---|--|--------------|-------------------------------------|
| Captan | 75-85 | 133-06- 2 | 205- 087-0 | 613- 04400-6 | Acute Tox. 3 (H331) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Carc. 2 (H351) Aquatic Acute 1 (H400) | T; R23 Xi; R41 R43 Carc.Cat.3; R40 N; R50 | 10 | |
| Sulfonated aromatic polymer, sodium salt | 3.0-4.0 | N/A | | | Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) | Xi; R36/38 | | |
| phenolsulfonic acid- formaldehyde polyco ndensate as sodium salt | 2.0-3.0 | N/A | | | Aquatic Chronic 3 (H412) | R52/53 | | |
| Sodium alkyl C12-14 sulfate | >1 | 85586- 07-8 | 287- 809-4 | | STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) | Xi; R36/37/38 | | |

Full text of R-phrases: see Section 16. Full text of H- and EUH-phrases: see Section 16.

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SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice In case of accident or unwellness. Seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection. Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Skin contact - Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

Eye contact - Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Ingestion - Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

Self-protection - Use personal protective equipment as the first aider required.

4.2. Most important symptoms and effects, both acute and delayed. Symptoms None known.

4.3. Indication of any immediate medical attention and special treatment needed. Note to physicians Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture No specific hazard known.

5.3. Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures Personal precautions Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up. Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections other information See also Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fumes/gas/mist/vapours/spray. Use with local exhaust ventilation.

General hygiene considerations. When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding-stuffs. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labelled containers.

7.3. Specific end use(s) Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

| Chemical name | European Union | United Kingdom | France | Spain | Germany |
|----------------------|---|--|--------------------------|---|---|
| Captan 133-06-2 | | STEL: 15 mg/m ³ TWA: 5 mg/m ³ | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ | |
| Chemical name | Italy | Portugal | Netherlands | Finland | Denmark |
| Captan 133-06-2 | | TWA: 5 mg/m ³ | | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ |
| Chemical name | Austria | Switzerland | Poland | Norway | Ireland |
| Captan 133-06-2 | STEL 10 mg/m ³ TWA: 5 mg/m ³ | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ STEL 10 mg/m ³ | TWA: 5 mg/m ³ STEL 15 mg/m ³ |

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration No information available. (PNEC)

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

Body protection Suitable protective clothing, gloves made of plastic or rubber, apron.

General hygiene considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feedingstuffs. Wash contaminated clothing before reuse.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained. Prevent product from entering drains.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Property | Values | Method | Remarks |
|---|-------------------|---------------|-------------------------------------|
| Appearance Physical state : | Granules | | |
| Colour : | Beige | | |
| odour | Aromatic | | |
| odour threshold | No data available | | |
| pH | 8.9 - 9.9 | CIPAC MT 75.3 | Solution (1 %) |
| Melting point/freezing point °C | No data available | | |
| Boiling point/boiling range °C | No data available | | |
| Flash point °C | No data available | | Not applicable |
| Evaporation rate | Not applicable | | |
| Flammability (solid, gas) | Not flammable | EEC A10 | |
| Upper/lower flammability or explosive limits | No data available | | |
| Vapour pressure | No data available | | |
| Vapour density | No data available | | |
| Relative density | No data available | | |
| Solubility(ies) | No data available | | |
| Partition coefficient (n-octanol/water) Log Pow | | | See Section 12 for more information |
| Autoignition temperature °C | 174 | EEC A.16 | |
| Decomposition temperature °C | No data available | | |
| Kinematic viscosity mm ² /s 40 °C | Not applicable | | |
| Explosive properties | Not an explosive | | |
| oxidising properties | No data available | | |

9.2. Other information

Bulk density g/ml : 0.70 Surface tension mN/m : Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity Not available.

10.2. Chemical stability Stable under normal conditions.

10.3. Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials No information available.

10.6. Hazardous decomposition products

Chemical name Captan Carbon monoxide. Carbon dioxide (CO₂); Hydrogen chloride. Nitrogen oxides (NO_x). Sulfates.

SECTION 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

| Acute toxicity | Values | Species | Method | Remarks |
|-----------------------------------|----------------------------|------------|----------------|--------------------------|
| oral LD50 mg/kg | > 2000 | Rat | OECD 401 | |
| Dermal LD50 mg/kg | > 5000 | Rat | OPPTS 870.1200 | |
| Inhalation LC50 mg/l/4h | | | | Not applicable; granules |
| Skin corrosion/irritation | Non-irritating to the skin | Rabbit | OECD 404 | |
| Serious eye damage/eye irritation | Irritating to eyes | Rabbit | OECD 405 | |
| Respiratory/skin sensitisation | Skin sensitiser | Guinea pig | OECD 406 | |

Chronic toxicity : Captan

| Germ cell mutagenicity | Carcinogenicity | Reproductive toxicity | SToT single exposure | SToT - repeated exposure | Aspiration hazard |
|------------------------|-------------------------|---|--------------------------|--------------------------|--------------------------|
| Not classified | Carcinogenic category 2 | This product does not contain any known or suspected reproductive hazards | No information available | Not available | No information available |

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity : Acute toxicity

| Aquatic toxicity | Values | Species | Method | Remarks |
|-----------------------------|--------|-------------------------|----------|-------------|
| Fish 96-hour LC50 mg/l | 0.17 | Rainbow trout | OECD 203 | Static |
| Crustacea 48-hour EC50 mg/l | 6.48 | Daphnia magna | OECD 202 | Semi-static |
| Algae 72-hour EC50 mg/l | 63.7 | Scenedesmus subspicatus | OECD 201 | |
| other plants EC50 mg/l | | | OECD 221 | |

Terrestrial toxicity : Chemical name Captan

| | | | | |
|-----------------------|-------|--------------|--|--|
| Birds oral LD50 mg/kg | >2000 | Mallard duck | | |
| Bees oral LD50 µg/bee | >100 | | | |

12.2. Persistence and degradability

| Abiotic degradation Water DT50 days | Values | Method | Remarks |
|-------------------------------------|-----------------------|--------|---------|
| Soil DT50 days | | | |
| Biodegradation Chemical name Captan | Readily biodegradable | | |

12.3. Bioaccumulative potential

| | | | |
|--|------|--|--|
| Partition coefficient (n-octanol/water) Log Pow Captan | 2.57 | | |
| Bioconcentration factor (BCF) | | | |

12.4. Mobility in soil Captan

| | | | |
|-----------------------|----------------------------|--|------------|
| Adsorption/desorption | : No information available | | Not mobile |
|-----------------------|----------------------------|--|------------|

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

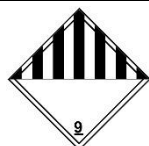
Waste from residues/unused products. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging. Improper disposal or reuse of this container may be dangerous and illegal.

Other information. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: TRANSPORTATION INFORMATION IMDG/IMO

| | | | |
|------|------------|--|---|
| 14.1 | IMDG / IMO | UN/ID No. | 3077 |
| 14.2 | | Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captan) |
| 14.3 | RID/ADR | Hazard class | 9 |
| 14.4 | | Packing group | III |
| 14.5 | ICAO IATA | Marine pollutant | Yes |
| 14.6 | | Special precautions for user | |
| 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

15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

SECTION 16: OTHER INFORMATION

| | |
|---|--|
| Full text of R-phrases referred to under Sections 2 and 3 R23 - Toxic by inhalation R40 - Limited evidence of a carcinogenic effect R41 - Risk of serious damage to eyes R43 - May cause sensitisation by skin contact R50 - Very toxic to aquatic organisms R36/38 - Irritating to eyes and skin 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 H315 - Causes skin irritation H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H319 - Causes serious eye irritation H351 - Suspected of causing cancer H331 - Toxic if inhaled H400 - Very toxic to aquatic life H412 - Harmful to aquatic life with long lasting effects |
|---|--|

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

Disclaimer The information provided in this Material 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.