

CLAYTON PLANT PROTECTION

CLAYTON RUGBY Safety Data Sheet according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010.
Version 1/dsc 12/08/2015. 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 Rugby. Product type : Mixture

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

1.2.1 Relevant identified uses : Herbicide

1.2.2 Uses advised against No uses advised against known

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. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

Eye irritation - Category 2 - H319

Aspiration hazard - Category 1 - H304

Reproductive Toxicity - Sub-category 1B - H360Df

Chronic aquatic toxicity - Category 2 - H411

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

T - Toxic

N - Dangerous for the environment

R36/38 - Irritating to eyes and skin

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R61 - May cause harm to the unborn child.

R62 - Possible risk of impaired fertility.

R66 - Repeated exposure may cause skin drying or cracking.

2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms



Signal Word : Danger

Hazard Statements

H304 May be fatal if swallowed and enters airways

H319 Causes serious eye irritation

H360DF May damage the unborn child. Suspected of damaging fertility

H411 Toxic to aquatic life with long lasting effects

Precautions Statements

P102 Keep out of reach of children

P201 Obtain special instructions before use

P280 Wear eye / face protection

P301/313 IF SWALLOWED immediately call a poison centre or doctor/physician

P331 DO NOT induce vomiting

P337.313 If eye irritation persists, get medical advice/attention

P391 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

EUH208 Contains pinoxaden. May produce an allergic reaction

EUH208 Contains cloquintocet-mexyl. May produce an allergic reaction

EUH066 Repeated exposure may cause skin dryness or cracking

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:

· Solvent naphtha (petroleum), highly arom.

· Tetrahydrofurfuryl alcohol

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

Hazardous components which must be listed on the label:

· Solvent naphtha (petroleum), highly arom.

· Tetrahydrofurfuryl alcohol

2.3 Other hazards : None known.

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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 1272/2008)	Concentration
Solvent naphtha (petroleum), highly arom.	64742-94-5 265-198-5 01-2119451097-39	Xn, N R51/53 R56 R66	Acute to 1, H304 Aquatic chronic 2; H411	35 - 60 w/w
Tetrahydrofurfuryl-alcohol	97-99-4 202-625-6	T R61 R6 R36	Repr 1B: H360Df Eye irrit 2; H319	20 – 40% w/w
Pinoxaden	243973-20-8	Xn R20 R36/37/38 R43 R52/53	Acute tox 4; H332 Skin irrit 2; H315 Skin sens 1; H317 Eye irrit 2; H319 STOT SE3; H335 Aquatic chronic 3; H412	9.7% w/w
Cloquintocet-mexyl	996-7-70-2 012119381871-32-0000 01-2119387592-28-000	Xi, N R43 R50/53	Skin sens 1; H317 Aquatic acute 1; H400 Aquatic chronic 1; H410	2.4% w/w
Poly(oxy-1,2-ethandiyl),-2(2,4,6-tris(1-phenylethyl)phenyl)-hydroxy	99734-09-5 104376-75-2	N R51/53	Aquatic chronic 2; H411	1 – 5% 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

4.3 Symptoms :Aspiration may cause pulmonary oedema and pneumonitis.

4.4 Indication of any immediate medical attention and special treatment needed

Medical advice : There is no specific antidote available. Treat symptomatically. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

SECTION 5. FIRE FIGHTING 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

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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 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 limits	Type of exposure limit	Source
Cloquintocet-mexyl	10mg/m ³	8h TWA	Syngenta
Solvent naphtha (petroleum), highly arom.	20ppm, 100mg/m ³	8h 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 mist 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.

Respiratory protection : No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.

Hand protection : Suitable material: nitrile rubber. Break through time: > 480 min Glove thickness: 0.5 mm Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye Protection : If eye contact is possible, use tight-fitting chemical safety goggles.

Skin and body protection : Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before reuse, or use disposable equipment (suits, aprons, sleeves, boots, etc.). Wear as appropriate: impervious protective suit.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State : Liquid Form : Liquid clear Colour : Yellow to orange Odour : Aromatic Odour Threshold : No data available pH : 3 – 7 at 1 % w/v Melting point/range : No data available Boiling point/boiling range : No data available Flash point : 79 °C at 751 mm Hg 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 : 1.03 g/ml at 20 °C Solubility in other solvents : No data available Partition Coefficient n-octanol/water : No data available Autoignition temperature : 305 °C Thermal decomposition : No data available Viscosity, dynamic : 4.41 mPa.s at 40 °C 8.34 mPa.s at 20 °C Viscosity, kinematic : No data available Explosive properties : Not explosive Oxidizing properties : Not oxidising
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9.2 Other information

Miscibility : Miscible. Surface tension : 36.6 mN/m at 25 °C

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : See Section 10.3 "Possibility of hazardous reactions"

10.2 Chemical Stability : The product is stable when used in normal conditions

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10.3 Possibility of hazardous reactions : No hazardous reactions by normal handling and storage according to provisions.

10.4 Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials : No substances are known which lead to the formation of hazardous substances or thermal reactions.

10.6 Hazardous decomposition products : Combustion or thermal decomposition will evolve toxic and irritant vapours.

SECTION 11. ECOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity : LD50 female rat, 3,129 mg/kg

Acute inhalational toxicity : LC50 male and female rat, > 5.0 mg/l, 4h

Acute dermal toxicity : LD50 male and female rat, > 2,000 mg/kg

Skin corrosion/irritation : Rabbit: moderately 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 Solvent naphtha (petroleum), highly arom. : Did not show mutagenic effects in animal experiments.

Pinoxaden : Did not show mutagenic effects in animal experiments.

Cloquintocet-mexyl : Did not show mutagenic effects in animal experiments.

Carcinogenicity Solvent naphtha (petroleum), highly arom. : Did not show carcinogenic effects in animal experiments.

Pinoxaden : Did not show carcinogenic effects in animal experiments.

Cloquintocet-mexyl : Did not show carcinogenic effects in animal experiments.

Reproductive toxicity Solvent naphtha (petroleum), highly arom. : Did not show reproductive toxicity effects in animal experiments.

Tetrahydrofurfuryl alcohol : May damage the unborn child. Suspected of damaging fertility.

Pinoxaden : Did not show reproductive toxicity effects in animal experiments.

Cloquintocet-mexyl : Did not show reproductive toxicity effects in animal experiments.

STOT – repeated exposure

Solvent naphtha (petroleum), highly arom. : No adverse effect has been observed in chronic toxicity tests.

Pinoxaden : No adverse effect has been observed in chronic toxicity tests.

Cloquintocet-mexyl : No adverse effect has been observed in chronic toxicity tests.

Aspiration toxicity : Aspiration hazard if swallowed – can enter lungs and cause damage. Derived from components

SECTION 12. TOXICOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish : LC50 Oncorhynchus mykiss (rainbow trout), 5.6 mg/l, 96h

Toxicity to aquatic invertebrates : EC50 Daphnia magna (Water flea), 3.2mg/l, 48h

Toxicity to aquatic plants : EbC50 Pseudokirchneriella supcapitata (green algae), 4.6 mg/l, 72h

ErC50 Pseudokirchneriella supcapitata (green algae), 9.7 mg/l, 72h

12.2 Persistence and degradability

Biodegradability : Solvent naphtha (petroleum), highly arom. : Expected to be biodegradable

Pinoxaden : Not readily biodegradable. Cloquintocet-mexyl : Not readily biodegradable

Stability in water ; Pinoxaden : Degradation half life: 0.3 d Not persistent in water

Cloquintocet-mexyl : Degradation half life: 0.4 d Not persistent in water

Stability in soil : Pinoxaden : Degradation half life: 0.1 – 1.8 d Not persistent in soil

Cloquintocet-mexyl : Degradation half life: 2.4 d Not persistent in soil

12.3 Bioaccumulative potential

Solvent naphtha (petroleum), highly arom. : Accumulation in aquatic organisms is expected

Pinoxaden : Low potential for bioaccumulation. Cloquintocet-mexyl : Does not bioaccumulate

12.4 Mobility in soil : Pinoxaden : Pinoxaden has medium mobility in soil.

Cloquintocet-mexyl : Cloquintocet-mexyl is immobile in soil

12.5 Results of PBT and vPvB assessment

Pinoxaden, Cloquintocet-mexyl : These substances are not considered to be persistent, bioaccumulating nor toxic (PBT). These substances are not considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects : Classification of the product is based on the summation of the concentrations of classified components..

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.

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SECTION 14. TRANSPORT INFORMATION

Land Transport ADR/RID. UN no. UN3082 UN Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID NOS (SOLVENT NAPHTHA) Transport hazard class(es): 9 Packing Group: III Labels: 9 Environmental Hazards: Environmentally hazardous. Tunnel restriction: E

Sea Transport (IMDG) UN no. UN3082 UN Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID NOS (SOLVENT NAPHTHA) Transport hazard class(es): 9 Packing Group: III Labels: 9 Environmental Hazards: Marine pollutant

Air Transport (IATA-DGR) UN no. UN3082 UN Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID NOS (SOLVENT NAPHTHA) Transport hazard class(es): 9 Packing Group: III Labels: 9 Special precautions for user : None

14.6 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 : Danger

Hazard Statements	H304 May be fatal if swallowed and enters airways H319 Causes serious eye irritation H360DF May damage the unborn child. Suspected of damaging fertility H411 Toxic to aquatic life with long lasting effects
Precautions Statements	P102 Keep out of reach of children P201 Obtain special instructions before use P280 Wear eye / face protection P301/313 IF SWALLOWED immediately call a poison centre or doctor/physician P331 DO NOT induce vomiting P337.313 If eye irritation persists, get medical advice/attention P391 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	EUH208 Contains pinoxaden. May produce an allergic reaction EUH208 Contains cloquintocet-mexyl. May produce an allergic reaction EUH066 Repeated exposure may cause skin dryness or cracking 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:

· Solvent naphtha (petroleum), highly arom. · Tetrahydrofurfuryl alcohol

15.2 Chemical Safety Assessment : A Chemical Safety Assessment is not required for this substance.

SECTION 16. OTHER INFORMATION

Further information ; 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: R20 Harmful by inhalation. R36 Irritating to eyes. R36/37/38 Irritating to eyes, respiratory system and skin. R43 May cause sensitisation by skin contact. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Environmental Info R61 May cause harm to the unborn child. R62 Possible risk of impaired fertility. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking.	Full text of H-Statements referred to under sections 2 and 3. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation H332 Harmful if inhaled. H335 May cause respiratory irritation. H360Df May damage the unborn child. Suspected of damaging fertility. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
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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.