

# CLAYTON PLANT PROTECTION

**CLAYTON MYTH** Safety Data Sheet according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010.  
Version 1/dsc 17/6/2015. 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 Myth. 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:  
2.1.1 Classification according to Regulation EC No 1272/2008  
Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| Class   | Category   | Hazard statements  |
|---|--|--|
| Eye Irrit.<br>Skin Sens<br>Aquatic Acute<br>Aquatic Chronic | category 2<br>category 1<br>category 1<br>category 1 | H319: Causes serious eye irritation.<br>H317: May cause an allergic skin reaction.<br>H400: Very toxic to aquatic life.<br>H410: Very toxic to aquatic life with long lasting effects. |

- 2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC  
Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC  
Xi; R36 - Irritating to eyes.

R43 - May cause sensitisation by skin contact.  
N; R50-53 - Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

- 2.2 Label elements:  
Labelling according to Regulation EC No 1272/2008 (CLP)  
Signal word : Warning



### H-statements

H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

### P-statements

P280 Wear protective gloves, protective clothing and eye protection/face protection.  
P261 Avoid breathing vapours/mist.  
P302 + P352 IF ON SKIN: Wash with plenty of water and soap.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
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 + P313 If eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

### Supplemental information

EUH210 Safety data sheet available on request.  
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards: CLP Combustible

## SECTION 3: Composition/information on ingredients

3.1 Substances: Not applicable

3.2 Mixtures:

| Name REACH Registration No           | CAS No EC No            | Conc. (C) | Classification according to DSD/DPD       | Classification according to CLP   | Note       | Remark      |
|--------------------------------------|-------------------------|-----------|---|---|------------|-------------|
| nicosulfuron                         | 111991-09-4             | 6.0 %     | N; R50-53                                 | Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410  | (1)(9)     | Constituent |
| amines, tallow alkyl, ethoxylated    | 61791-26-2<br>500-153-8 | <50%      | T; R23<br>Xn; R22<br>Xi; R41<br>N; R51-53 | Acute Tox. 2; H330<br>Acute Tox. 4; H302<br>Eye Dam. 1; H318<br>Aquatic Chronic 2; H411 | (1)        | Constituent |
| oils, vegetable                      | 68956-68-3<br>273-313-5 | <50%      |   |   | (2)        | Constituent |
| 2-ethylhexan-1-ol                    | 104-76-7<br>203-234-3   | <10%      | Xn: R20<br>Xi: R36/37/38                  | Acute Tox. 4; H332<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>Skin Irrit. 2; H315      | (1)(2)(10) | Constituent |
| polyoxyethylene sorbitol tetraoleate | 63089-86-1              | <10%      | Xi: R36/38                                | Skin Irrit. 2; H315   | (1)        | Constituent |

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|                                   |                         |      |            |   |     |             |
|-----------------------------------|-------------------------|------|------------|---|-----|-------------|
| calcium dodecyl-benzenesulphonate | 26264-06-2<br>247-557-8 | <10% | Xi: R38-41 | Skin Irrit. 2: H315<br>Eye Dam. 1; H318 | (1) | Constituent |
|-----------------------------------|-------------------------|------|------------|---|-----|-------------|

- (1) For R-phrases and H-statements in full: see heading 16  
(2) Substance with a Community workplace exposure limit  
(9) M-factor, see heading 16  
(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

### 4.1 Description of first aid measures:

General: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact: Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact: Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion: Rinse mouth with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

### 4.2 Most important symptoms and effects, both acute and delayed:

#### 4.2.1 Acute symptoms

After inhalation: No effects known.

After skin contact: Not irritating.

After eye contact: Irritation of the eye tissue.

After ingestion: No effects known.

#### 4.2.2 Delayed symptoms No effects known.

### 4.3 Indication of any immediate medical attention and special treatment needed: If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media:

5.1.1 Suitable extinguishing media: Alcohol-resistant foam. BC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media: No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture: On burning: release of toxic and corrosive gases/vapours (nitrous vapours, sulphur oxides, carbon monoxide - carbon dioxide).

### 5.3 Advice for firefighters:

5.3.1 Instructions: Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters: Gloves. Safety glasses. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: No naked flames.

6.1.1 Protective equipment for non-emergency personnel. See heading 8.2

6.1.2 Protective equipment for emergency responders : Gloves. Safety glasses. Protective clothing.

Suitable protective clothing. See heading 8.2

6.2 Environmental precautions: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

6.3 Methods and material for containment and cleaning up: Take up liquid spill into absorbent material, e.g.: sand/earth. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4 Reference to other sections: See heading 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex.

Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling: Keep away from naked flames/heat. Finely divided: spark- and explosion proof appliances.

Finely divided: keep away from ignition sources/sparks. Gas/vapour

heavier than air at 20°C. Observe very strict hygiene - avoid contact. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements: Provide for a tub to collect spills. Keep only in the original container. Meet the legal requirements.

7.2.2 Keep away from: Heat sources.

7.2.3 Suitable packaging material: No data available

7.2.4 Non suitable packaging material: No data available

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7.3 Specific end use(s): If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer. The product will only be used as herbicide.

## SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

The Netherlands : 2-Ethylhexanol. Time-weighted average exposure limit 8 h (Private occupational exposure limit value) 50 ppm

Time-weighted average exposure limit 8 h (Private occupational exposure limit value) 270 mg/m<sup>3</sup>

Belgium : Huiles végétales (brouillards) Time-weighted average exposure limit 8 h 10 mg/m<sup>3</sup>

Germany : 2-Ethylhexan-1-ol Time-weighted average exposure limit 8 h (TRGS 900) 20 ppm. Time-weighted average exposure limit 8 h (TRGS 900) 110 mg/m<sup>3</sup>

b) National biological limit values : If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods : If applicable and available it will be listed below.

8.1.3 Applicable limit values when using the substance or mixture as intended If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

DNEL – Workers. 2-ethylhexan-1-ol

Effect level (DNEL/DMEL)

DNEL

| Type                                  | Value                  | Remark |
|---------------------------------------|------------------------|--------|
| Long-term systemic effects inhalation | 12.8 mg/m <sup>3</sup> |        |
| Long-term local effects inhalation    | 53.2 mg/m <sup>3</sup> |        |
| Acute local effects inhalation        | 53.2 mg/m <sup>3</sup> |        |
| Long term systemic effects dermal     | 23 mg/kg bw/day        |        |

DNEL - General population

2-ethylhexan-1-ol

Effect level (DNEL/DMEL)

DNEL

| Type                                  | Value                  | Remark |
|---------------------------------------|------------------------|--------|
| Long-term systemic effects inhalation | 2.3 mg/m <sup>3</sup>  |        |
| Long-term local effects inhalation    | 26.6 mg/m <sup>3</sup> |        |
| Acute local effects inhalation        | 26.6 mg/m <sup>3</sup> |        |
| Long-term systemic effects dermal     | 11.4 mg/kg bw/day      |        |
| Long-term systemic effects oral       | 1.1 mg/kg bw/day       |        |

PNEC

2-ethylhexan-1-ol

| Compartments                 | Value                   | Remark |
|------------------------------|-------------------------|--------|
| Fresh water                  | 0.017 mg/l              |        |
| Marine water                 | 0.0017 mg/l             |        |
| Aqua (intermittent releases) | 0.17 mg/l               |        |
| STP                          | 10 mg/l                 |        |
| Fresh water sediment         | 0.28 mg/kg sediment dw  |        |
| Marine water sediment        | 0.028 mg/kg sediment dw |        |
| Soil                         | 0.047 mg/kg soil dw     |        |
| Oral                         | 55 mg/kg food           |        |

8.1.5 Control banding : If applicable and available it will be listed below.

8.2 Exposure controls: The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls. Keep away from naked flames/heat. Finely divided: spark- and explosion proof appliances. Finely divided: keep away from ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment. Observe very strict hygiene - avoid contact. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection: High gas/vapour concentration: gas mask with filter type A.

b) Hand protection: Gloves.

c) Eye protection: Face shield.

d) Skin protection: Protective clothing.

8.2.3 Environmental exposure controls: See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

|                  |                            |                          |                   |
|------------------|----------------------------|--------------------------|-------------------|
| Physical form    | Liquid                     | Boiling point            | No data available |
| Odour            | No data available on odour | Flash point              | > 79 °C           |
| Odour threshold  | No data available          | Evaporation rate ether ; | No data available |
| Colour           | Beige to white             | Relative vapour density  | > 2               |
| Particle size    | Not applicable (liquid)    | Vapour pressure          | No data available |
| Explosion limits | No data available          | Solubility water ;       | miscible          |
| Flammability     | Combustible                | Relative density         | 0.97              |

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|                     |                                 |                           |  |
|---------------------|---------------------------------|---------------------------|--|
| Log Kow             | No data available               | Decomposition temperature | No data available                                      |
| Dynamic viscosity   | 0.159 Pa.s - 0.657 Pa.s ; 20 °C | Auto-ignition temperature | 440 °C   |
| Kinematic viscosity | Not determined                  | Explosive properties      | No chemical group associated with explosive properties |
| Melting point       | No data available               | Oxidising properties      | No chemical group associated with oxidising properties |
|                     |                                 | pH                        | 5.52 ; 1 %   |

9.2 Other information: Absolute density 968 kg/m<sup>3</sup>

## SECTION 10: Stability and reactivity

10.1 Reactivity: Heating increases the fire hazard. Substance has acid reaction.

10.2 Chemical stability: No data available.

10.3 Possibility of hazardous reactions: No data available.

10.4 Conditions to avoid: Keep away from naked flames/heat. Finely divided: spark- and explosion proof appliances. Finely divided: keep away from ignition sources/sparks.

10.5 Incompatible materials: No data available.

10.6 Hazardous decomposition products: On burning: release of toxic and corrosive gases/vapours (nitrous vapours, sulphur oxides, carbon monoxide - carbon dioxide).

## SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

| Route of exposure                          | Parameter | Method                 | Value                        | Exposure time | Species           | Value Determination | Remark |
|--|-----------|------------------------|------------------------------|---------------|-------------------|---------------------|--------|
| Clayton Myth                               |           |                        |                              |               |                   |                     |        |
| Oral                                       | LD50      |                        | > 2000 mg/kg                 |               | Rat               | Experimental value  |        |
| Dermal                                     | LD50      |                        | > 2000 mg/kg                 |               | Rat               | Experimental value  |        |
| Inhalation                                 | LC50      |                        |                              |               |                   | Not determined      |        |
| nicosulfuron                               |           |                        |                              |               |                   |                     |        |
| Oral                                       | LD50      |                        | > 5000 mg/kg                 |               | Rat               | Experimental value  |        |
| Dermal                                     | LD50      |                        | > 2000 mg/kg                 |               | Rat               | Experimental value  |        |
| Inhalation                                 | LC50      |                        | > 5.47 mg/l                  | 4 h           | Rat               | Experimental value  |        |
| amines, tallow alkyl, ethoxylated          |           |                        |                              |               |                   |                     |        |
| Oral                                       | LD50      |                        | 500 mg/kg – 2000 mg/kg       |               | Rat               | Literature          |        |
| Inhalation                                 | LC50      |                        | 0.27 mg/l                    | 4 h           | Rat               | Literature          |        |
| 2-ethylhexan-1-ol                          |           |                        |                              |               |                   |                     |        |
| Oral                                       | LD50      | Equivalent to OECD 401 | 3290 mg/kg bw                |               | Rat (male)        | Experimental value  |        |
| Dermal                                     | LD50      | OECD 402               | > 3000 mg/kg bw              |               | Rat (male/female) | Experimental value  |        |
| Inhalation (mixture of vapour and aerosol) | LC50      | OECD 403               | 0.89 mg/l air - 5.3 mg/l air | 4 h           | Rat (male/female) | Experimental value  |        |

Judgement is based on the relevant ingredients. Conclusion : Not classified for acute toxicity

## Corrosion/irritation

| Route of exposure                 | Result              | Method            | Exposure time | Time point                 | Species | Value determination | Remark           |
|-----------------------------------|---------------------|-------------------|---------------|----------------------------|---------|---------------------|------------------|
| Clayton Myth                      |                     |                   |               |                            |         |                     |                  |
| Eye                               | Irritating          |                   |               |                            | Rabbit  | Experimental value  |                  |
| nicosulfuron                      |                     |                   |               |                            |         |                     |                  |
| Eye                               | Slightly irritating |                   |               |                            | Rabbit  | Experimental value  |                  |
| Skin                              | Not irritating      |                   |               |                            | Rabbit  | Experimental value  |                  |
| amines, tallow alkyl, ethoxylated |                     |                   |               |                            |         |                     |                  |
| Eye                               | category 1          |                   |               |                            |         | Literature          |                  |
| 2-ethylhexan-1-ol                 |                     |                   |               |                            |         |                     |                  |
| Eye                               | Irritating          | OECD 405          |               | 24; 48; 72 hours           | Rabbit  | Experimental value  | Single treatment |
| Eye                               | Irritating          | Human observation | 4 h           |                            | Human   | Experimental value  |                  |
| Skin                              | Highly irritating   | OECD 404          | 4 h           | 1; 2; 3; 4; 7; 10; 14 days | Rabbit  | Experimental value  |                  |
| Inhalation                        | Irritating          | Human observation | 4 h           |                            | Human   | Experimental value  |                  |

| Route of exposure                    | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|--------------------------------------|--------|--------|---------------|------------|---------|---------------------|--------|
| polyoxyethylene sorbitol tetraoleate |        |        |               |            |         |                     |        |



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|----------------------------------|------------|--|--|--|--|------------------|--|
| Skin                             | category 2 |  |  |  |  | Literature study |  |
| calcium dodecylbenzenesulphonate |            |  |  |  |  |                  |  |
| Eye                              | category 1 |  |  |  |  | Literature study |  |
| Skin                             | category 2 |  |  |  |  | Literature study |  |

Classification of the mixture is based on test data on the mixture as a whole. Conclusion : Causes serious eye irritation.

| Respiratory or skin sensitisation |                 |                   |               |                   |              |                     |        |
|-----------------------------------|-----------------|-------------------|---------------|-------------------|--------------|---------------------|--------|
| Route of exposure                 | Result          | Method            | Exposure time | Observation point | Species      | Value determination | Remark |
| Clayton Myth                      |                 |                   |               |                   |              |                     |        |
| Skin                              | Sensitizing     | OECD 429          |               |                   | Mouse        | Experimental value  |        |
| nicosulfuron                      |                 |                   |               |                   |              |                     |        |
| Skin                              | Not sensitizing |                   |               |                   |              | Experimental value  |        |
| 2-ethylhexan-1-ol                 |                 |                   |               |                   |              |                     |        |
| Skin                              | Not sensitizing | Human observation | 48 h          | 24; 48; 72 hours  | Human (male) | Experimental value  |        |
| Skin                              | Not sensitizing | Other             | 48 h          |                   | Human        | Experimental value  |        |

Classification of the mixture is based on test data on the mixture as a whole. Conclusion : May cause an allergic skin reaction.

## Specific target organ toxicity

Clayton Myth. No test data on the mixture available

| Route of exposure | Parameter | Method   | Value                   | Organ | Effect    | Exposure time | Species             | Value determination |
|-------------------|-----------|----------|-------------------------|-------|-----------|---------------|---------------------|---------------------|
| 2-ethylhexan-1-ol |           |          |                         |       |           |               |                     |                     |
| Oral              | NOAEL     | OECD 408 | 250 mg/kg bw/day        |       | No effect | 90 day(s)     | Mouse (male/female) | Experimental Value  |
| Inhalation        | NOAEC     | OECD 413 | 638.4 mg/m <sup>3</sup> |       | No effect | 90 day(s)     | Rat (male/female)   | Experimental value  |

Judgement is based on the relevant ingredients. Conclusion : Not classified for subchronic toxicity

## Mutagenicity (in vitro)

Clayton Myth : No (test)data on the mixture available

2-ethylhexan-1-ol.

| Result   | Method                 | Test substrate                | Effect    | Value determination |
|----------|------------------------|-------------------------------|-----------|---------------------|
| Negative | Equivalent to OECD 471 | Bacteria (S.typhimurium)      | No effect | Experimental value  |
| Negative | Equivalent to OECD 476 | Mouse (lymphoma L5178Y cells) | No effect | Experimental value  |

## Mutagenicity (in vivo)

Clayton Myth : No (test)data on the mixture available

2-ethylhexan-1-ol

| Result   | Method                | Exposure time | Test substrate | Organ | Value determination            |
|----------|-----------------------|---------------|----------------|-------|--------------------------------|
| Negative | Equivalent to OECD473 |               | Rat (male)     |       | Inconclusive insufficient data |

## Carcinogenicity

Clayton Myth : No (test)data on the mixture available

2-ethylhexan-1-ol

| Route of exposure | Parameter | Method                 | Value            | Exposure time | Species             | Value determination | Organ | Effect    |
|-------------------|-----------|------------------------|------------------|---------------|---------------------|---------------------|-------|-----------|
| Oral              | NOAEL     | Equivalent to OECD 451 | 500 mg/kg bw/day | 2 years       | Rat (male/female)   | Experimental value  |       | No effect |
| Oral              | NOAEL     | Equivalent to OECD 451 | 200 mg/kg bw/day | 18 month(s)   | Mouse (male/female) | Experimental value  |       | No effect |

## Reproductive toxicity

Clayton Myth : No (test)data on the mixture available

2-ethylhexan-1-ol

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Version 1/dsc 17/6/2015. This version replaces all previous versions.

| Route of exposure      | Parameter | Method   | Value            | Exposure time | Species        | Effect    | Organ | Effect                          |
|------------------------|-----------|----------|------------------|---------------|----------------|-----------|-------|---------------------------------|
| Developmental toxicity | NOAEL     | OECD 414 | 191 mg/kg bw/day | 17 day(s)     | Mouse          | No effect |       | Experimental value              |
| Effects on fertility   | NOAEL     | Other    |                  |               | Mouse (female) |           |       | Inconclusive, insufficient data |

Judgement is based on the relevant ingredients. Conclusion CMR. Not classified for reprotoxic or developmental toxicity. Not classified for mutagenic or genotoxic toxicity. Not classified for carcinogenicity.

Toxicity other effects. Clayton Myth : No (test) data on the mixture available

Chronic effects from short and long-term exposure.

Clayton Myth : ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.

## SECTION 12: Ecological information

### 12.1 Toxicity:

Clayton Myth

|   | Parameter | Method        | Value           | Duration | Species                 | Test design         | Fresh/salt water | Value determination             |
|---|-----------|---------------|-----------------|----------|-------------------------|---------------------|------------------|---------------------------------|
| Toxicity algae and other aquatic plants | EC50      |               | 0.032 mg/l      |          | Lemna sp                |                     |                  | Experimental value              |
|   | NOEC      |               | 0.010 mg/l      |          | Lemna sp                |                     |                  | Experimental value              |
| nicosulfuron                            |           |               |                 |          |                         |                     |                  |                                 |
| Acute toxicity fishes                   | LC50      |               | 65.7 mg/l       | 96 h     | Oncorhynchus mykiss     | Static system       |                  | Experimental value              |
| Acute toxicity invertebrates            | EC50      |               | 90 mg/l         | 48 h     | Daphnia magna           | Static system       |                  | Experimental value              |
| Toxicity algae and other aquatic plants | ErC50     | US EPA        | 0.0017 mg/l     | 168 h    | Lemna gibba             | Semi-static system  |                  | Experimental value              |
|   | EbC50     |               | 7.8 mg/l        | 72 h     | Anabaena flosaquae      |                     |                  | Experimental value biomass      |
| amines, tallow alkyl, ethoxylated       |           |               |                 |          |                         |                     |                  |                                 |
| Acute toxicity fishes                   | LC50      |               | 1 mg/l - 10mg/l | 96 h     | Leuciscus idus          |                     |                  | Literature                      |
| Acute toxicity invertebrates            | EC50      |               | 1 mg/l - 10mg/l | 48 h     | Daphnia magna           |                     |                  | Literature                      |
| 2-ethylhexan-1-ol                       |           |               |                 |          |                         |                     |                  |                                 |
| Acute toxicity fishes                   | LC50      | EU Method C.1 | 17.1 mg/l       | 96 h     | Leuciscus idus          | Flow-through system | Fresh water      | Experimental value; GLP         |
| Acute toxicity invertebrates            | EC50      | EU Method C.2 | 39 mg/l         | 48 h     | Daphnia magna           | Static system       | Fresh water      | Experimental value; GLP         |
| Toxicity algae and other aquatic plants | EC50      | EU Method C.3 | 16.6 mg/l       | 72 h     | Desmodesmus subspicatus | Static system       | Fresh water      | Experimental value; Growth rate |
| Toxicity aquatic microorganisms         | EC10      | DIN 38412-8   | 540 mg/l        | 18 h     | Pseudomonas putida      |                     |                  | Experimental value              |

Classification of the mixture is based on test data on the mixture as a whole.

Conclusion : Highly toxic to aquatic plants. Very toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability:

nicosulfuron

Phototransformation water (DT50 water)

|        |                       |                   |                     |
|--------|-----------------------|-------------------|---------------------|
| Method | Value                 | Conc. OH-radicals | Value determination |
|        | 24 day(s) - 26 day(s) |                   | Experimental value  |

amines, tallow alkyl, ethoxylated. Biodegradation water

|                              |             |          |                     |
|------------------------------|-------------|----------|---------------------|
| Method                       | Value       | Duration | Value determination |
| OECD 301A: DOC Die-Away Test | 40 % - 50 % |          | Experimental value  |

2-ethylhexan-1-ol. Biodegradation water

|                               |       |               |                     |
|-------------------------------|-------|---------------|---------------------|
| Method                        | Value | Duration      | Value determination |
| OECD 301B: CO2 Evolution Test | 86 %; | GLP 20 day(s) | Experimental value  |

Conclusion : Contains non readily biodegradable component(s)

### 12.3 Bioaccumulative potential:

Clayton Myth. Log Kow

|        |        |       |             |                     |
|--------|--------|-------|-------------|---------------------|
| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|



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Version 1/dsc 17/6/2015. This version replaces all previous versions.

No data available

Nicosulfuron Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
|        |        | 0.61  |             | Experimental value  |

2-ethylhexan-1-ol

BCF other aquatic organisms

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|-------|----------|---------|---------------------|
| BCF       | BCFWIN | 25.33 |          |         | Calculated value    |

Log Kow

| Method   | Remark | Value | Temperature | Value determination |
|----------|--------|-------|-------------|---------------------|
| OECD 117 |        | 2.9   | 25 °C       | Experimental value  |

calcium dodecylbenzenesulphonate

Log Kow

| Method            | Remark | Value | Temperature | Value determination |
|-------------------|--------|-------|-------------|---------------------|
| No data available |        |       |             |                     |

Conclusion : No straightforward conclusion can be drawn based upon the available numerical values

12.4 Mobility in soil:

Clayton Myth : (log) Koc

| Parameter         | Method | Value | Value determination |
|-------------------|--------|-------|---------------------|
| No data available |        |       |                     |

Nicosulfuron : (log) Koc

| Parameter | Method | Value     | Value determination |
|-----------|--------|-----------|---------------------|
| Koc       |        | 20.7 l/kg |                     |

Volatility (Henry's Law constant H)

| Value                           | Method | Temperature | Remark | Value determination |
|---------------------------------|--------|-------------|--------|---------------------|
| 1.48E-11 Pa.m <sup>3</sup> /mol |        | 20 °C       |        | Experimental value  |

2-ethylhexan-1-ol : (log) Koc

| Parameter | Method         | Value | Value determination |
|-----------|----------------|-------|---------------------|
| Koc       | PCKOCWIN v1.66 | 26.01 | Calculated value    |

Conclusion : No straightforward conclusion can be drawn based upon the available numerical values

12.5 Results of PBT and vPvB assessment: : Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects: Clayton Myth : Global warming potential (GWP) : None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ozone-depleting potential (ODP) : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

Nicosulfuron : Global warming potential (GWP) : Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

2-ethylhexan-1-ol : Global warming potential (GWP) : Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste ; Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC). 02 01 08\* (wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing: agrochemical waste containing dangerous substances).

Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

13.1.3 Packaging/Container : Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

Road (ADR)

14.1 UN number: 3082

14.2 UN proper shipping name: Proper shipping name Environmentally hazardous substance, liquid, n.o.s. (nicosulfuron)

14.3 Transport hazard class(es): Hazard identification number 90. Class 9 Classification code M6

14.4 Packing group: III Labels 9

14.5 Environmental hazards: Environmentally hazardous substance

14.6 Special precautions for user: Special provisions 274 Special provisions 335 Special provisions 601



# CLAYTON PLANT PROTECTION

**CLAYTON MYTH** Safety Data Sheet according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010.  
Version 1/dsc 17/6/2015. This version replaces all previous versions.

Limited quantities Combination packagings: not more than 5 litres per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Rail (RID)

14.1 UN number:

UN number 3082

14.2 UN proper shipping name: Proper shipping name Environmentally hazardous substance, liquid, n.o.s. (nicosulfuron)

14.3 Transport hazard class(es): Hazard identification number 90 Class 9 Classification code M6

14.4 Packing group: III Labels 9

14.5 Environmental hazards: Environmentally hazardous substance

4.6 Special precautions for user: Special provisions 274 Special provisions 335 Special provisions 601

Limited quantities Combination packagings: not more than 5 litres per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Inland waterways (ADN)

14.1 UN number: 3082

14.2 UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (nicosulfuron)

14.3 Transport hazard class(es): Class 9 Classification code M6

14.4 Packing group: III Labels 9

14.5 Environmental hazards: Environmentally hazardous substance

14.6 Special precautions for user: Special provisions 274 Special provisions 335 Special provisions 601

Limited quantities Combination packagings: not more than 5 litres per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Sea (IMDG/IMSBC)

14.1 UN number: 3082

14.2 UN proper shipping name: Proper shipping name Environmentally hazardous substance, liquid, n.o.s. (nicosulfuron)

14.3 Transport hazard class(es): Class 9

14.4 Packing group: III Labels 9

14.5 Environmental hazards: Marine pollutant P. Environmentally hazardous substance.

14.6 Special precautions for user: Special provisions 274 Special provisions 335

Limited quantities Combination packagings: not more than 5 litres per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Annex II of MARPOL 73/78 Not applicable, based on available data

Air (ICAO-TI/IATA-DGR)

14.1 UN number: 3082

14.2 UN proper shipping name: Proper shipping name Environmentally hazardous substance, liquid, n.o.s. (nicosulfuron)

14.3 Transport hazard class(es): Class 9

14.4 Packing group: III Labels 9

14.5 Environmental hazards: Environmentally hazardous substance .

14.6 Special precautions for user: Special provisions A97 Special provisions A158 Special provisions A197

Passenger and cargo transport: limited quantities: maximum net quantity per packaging. 30 kg G

## SECTION 15: Regulatory information

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

European legislation: VOC content Directive 2010/75/EU. VOC content ; No data available

Plant protection products - listed ingredient. Contains component(s) included in implementing Regulation (EU) No 540/2011

European drinking water standards (Directive 98/83/EC)

nicosulfuron

| Parameter         | Parametric value | Note | Reference  |
|-------------------|------------------|------|--|
| Pesticides        | 0,1 µg/l         |      | Listed in Annex I, Part B, of Directive 98/83/EC on the quality of water intended for human consumption. |
| Pesticides —Total | 0,5 µg/l         |      | Listed in Annex I, Part B, of Directive 98/83/EC on the quality of water intended for human consumption. |

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

The identified uses are not covered by restrictions of Annex XVII of Regulation (EC) No 1907/2006

National legislation The Netherlands : Clayton Myth

Waste identification (the Netherlands) LWCA (the Netherlands): KGA category 03 Waterbezwaarlijkheid 4

National legislation Germany : Clayton Myth

Lagerklasse (TRGS510) 10: Brennbare Flüssigkeiten

WGK 2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender. Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

2-ethylhexan-1-ol

Schwangerschaft Gruppe B

MAK 8-Stunden-Mittelwert ppm 2-Ethylhexanol; 10 ppm

MAK 8-Stunden-Mittelwert mg/m<sup>3</sup> 2-Ethylhexanol; 54 mg/m<sup>3</sup>





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TA-Luft 5.2.5

National legislation France. Clayton Myth No data available

National legislation Belgium Clayton Myth No data available

Other relevant data Clayton Myth No data available

15.2 Chemical safety assessment: No chemical safety assessment is required.

## SECTION 16: Other information

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Labels



Irritant



Dangerous for the environment

R-phrases

36 Irritating to eyes

43 May cause sensitisation by skin contact

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases

(02) (Keep out of the reach of children)

13 Keep away from food, drink and animal feeding stuffs

20/21 When using do not eat, drink or smoke

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

35 This material and its container must be disposed of in a safe way

36/37 Wear suitable protective clothing and gloves

(46) (If swallowed, seek medical advice immediately and show this container or label)

57 Use appropriate container to avoid environmental contamination

Additional recommendations : To avoid risks to man and the environment, comply with the instructions for use

|   |   |
|---|---|
| Full text of any R-phrases referred to under headings 2 and 3:<br>R20 Harmful by inhalation<br>R22 Harmful if swallowed<br>R23 Toxic by inhalation<br>R36 Irritating to eyes<br>R36/37/38 Irritating to eyes, respiratory system and skin<br>R36/38 Irritating to eyes and skin<br>R38 Irritating to skin<br>R41 Risk of serious damage to eyes<br>R43 May cause sensitisation by skin contact<br>R50 Very toxic to aquatic organisms<br>R51 Toxic to aquatic organisms<br>R53 May cause long-term adverse effects in the aquatic environment | Full text of any H-statements referred to under headings 2 and 3:<br>H302 Harmful if swallowed.<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H319 Causes serious eye irritation.<br>H330 Fatal if inhaled.<br>H332 Harmful if inhaled.<br>H335 May cause respiratory irritation.<br>H400 Very toxic to aquatic life.<br>H410 Very toxic to aquatic life with long lasting effects.<br>H411 Toxic to aquatic life with long lasting effects. |
|---|---|

(\*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive

DPD Dangerous Preparation Directive

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

M-factor : nicosulfuron 100 BIG

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.