

# CLAYTON PLANT PROTECTION

**CLAYTON UNION** Safety Data Sheet according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010.  
Version 1/dsc 18/08/2015. 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 Union. Product type : Mixture

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

1.2.1 Relevant identified uses : Adjuvant for use with certain herbicides

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

Aspiration hazard: Category 1: H304

Skin Sensitisation: Category 1B: H317

Chronic aquatic toxicity: Category 3: H412

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

Xi, Irritant

N, Dangerous for the environment

R43: May cause sensitisation by skin contact.

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

### 2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard Pictograms



Hazard Statements	H304 May be fatal if swallowed and enters airways H317 May cause an allergic skin reaction H412 Harmful to aquatic life with long lasting effects
Precautions statements	P102 Keep out of reach of children P261 Avoid breathing dust/fumes/gas/mist/vapours/spray P280 Wear protective gloves/protective clothing P301/310 IF SWALLOWED immediately call a poison centre or doctor/physician P331 Do NOT induce vomiting P302/352 IF ON SKIN wash with plenty of soap and water P333/313 If skin irritation or rash occurs, get medical advice/attention 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

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.

2.3 Other hazards : no data available

## Section 3. Composition/Information on Ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS No. EC No registration no.	Classification (67/548/EEC)	Classification (Regulation (EC) No 1272/2008)	Concentration
€-18-ethoxyoctadec-3-ene	68920-66-1	Xi, R3, 8	Skin irrit 2. H315	25 – 35%w/w
Solvent naphtha petroleum, highly aromatic	64742-94-5 265-198-5 922-198-5 922-153-0 01-2119451097-39-0001	Xn N R65 R51/53	Asp. Tox 1 H304 Aquatic chronic 2, H411	20 -30% w/w

# **CLAYTON PLANT PROTECTION**

**CLAYTON UNION** Safety Data Sheet according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010. Version 1/dsc 18/08/2015. This version replaces all previous versions.

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. Contains petroleum distillates and/or aromatic solvents.

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

**Symptoms** : Aspiration may cause pulmonary oedema and pneumonitis.

### **4.3 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. Avoid dust formation.

### **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**

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: solvent naphtha (petroleum), highly arom.

# CLAYTON PLANT PROTECTION

**CLAYTON UNION** Safety Data Sheet according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010.  
Version 1/dsc 18/08/2015. This version replaces all previous versions.

Exposure limit(s): 20 ppm, 100 mg/m<sup>3</sup>. Type of exposure limit: 8 h TWA. Source: SUPPLIER  
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 dust is 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 : A combination gas, vapour and particulate respirator may be necessary until effective technical measures are installed. Protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

Hand protection : Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time appropriate to the duration of exposure - the breakthrough time varies according to the thickness, material and manufacturer. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Suitable material Nitrile rubber

Eye Protection : Eye protection is not usually required. Follow any site specific eye protection policies.

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 re-use, 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

<b>Physical State</b> : liquid <b>Form</b> : liquid <b>Colour</b> : light yellow to yellow <b>Odour</b> : aromatic, like solvent <b>Odour Threshold</b> : No data available <b>pH</b> : 4 - 8 at 1 % w/v <b>Melting point/range</b> : No data available <b>Boiling point/boiling range</b> : No data available <b>Flash point</b> : 123 °C <b>Evaporation rate</b> : No data available <b>Flammability (solid, gas)</b> : Not highly flammable <b>Lower explosion limit</b> : No data available <b>Upper explosion limit</b> : No data available	<b>Vapour pressure</b> : No data available <b>Relative vapour density</b> : No data available <b>Density</b> : 0.926 g/ml at 20 °C <b>Solubility in other solvents</b> : No data available <b>Partition Coefficient: n-octanol/water</b> : No data available <b>Autoignition temperature</b> : 290 °C <b>Thermal decomposition</b> : No data available <b>Viscosity, dynamic</b> : 8.05 mPa.s at 40 °C 15.1 mPa.s at 20 °C <b>Viscosity, kinematic</b> : No data available <b>Explosive properties</b> : Not explosive <b>Oxidizing properties</b> : Not oxidising
--	--

### 9.2 Other information

**Miscibility** : Miscible. **Surface tension** : 32.4 mN/m at 25 °C

## Section 10. Stability and Reactivity

**10.1 Reactivity** : No information available

**10.2 Chemical Stability** : No information available

**10.3 Possibility of hazardous reactions** : None known. Hazardous polymerisation does not occur.

**10.4 Conditions to avoid** : No information available

**10.5 Incompatible materials** : No information available

**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, > 5,000 mg/kg

**Acute inhalational toxicity.** Solvent naphtha (petroleum), highly arom : LC50 rat, 4,778 mg/l OECD Test Guideline 403

## **CLAYTON PLANT PROTECTION**

**CLAYTON UNION** Safety Data Sheet according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010.  
Version 1/dsc 18/08/2015. This version replaces all previous versions.

**Acute dermal toxicity** : LD50 male and female rat, > 5,000 mg/kg

**Skin corrosion/irritation** : Rabbit, mildly irritating

**Serious eye damage/eye irritation** : Rabbit, mildly irritating

**Respiratory or skin sensitisation** : Buehler Test guinea pig, a skin sensitizer in animal tests.

**Germ cell mutagenicity.** Solvent naphtha (petroleum), highly arom : Not mutagenic in Ames Test.

**Carcinogenicity.** Solvent naphtha (petroleum), highly arom : Animal testing did not show any carcinogenic effects.

**Reproductive toxicity.** Solvent naphtha (petroleum), highly arom : No toxicity to reproduction

**Aspiration toxicity.** Solvent naphtha (petroleum), highly arom : GHS-Classification Category 1

### **Section 12. Toxicological Information**

#### **12.1 Toxicity**

**Toxicity to fish** : LC50 Oncorhynchus mykiss (rainbow trout), 9.6 mg/l , 96 h

**Toxicity to aquatic invertebrates** : EC50 Daphnia magna (Water flea), 7.1 mg/l , 48 h

**Toxicity to aquatic plants** : ErC50 Pseudokirchneriella subcapitata (green algae), 1.22 mg/l ,  
72 h EbC50 Pseudokirchneriella subcapitata (green algae), 0.51 mg/l , 72 h

**12.2 Persistence and degradability.** Stability in soil no data available

**12.3 Bioaccumulative potential.** no data available

**12.4 Mobility in soil.** no data available

**12.5 Results of PBT and vPvB assessment.** no data available

**12.6 Other adverse effects. Other information** : 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.

### **Section 14. Transport Information**

#### **Land transport (ADR/RID)**

UN Number : UN 3082 UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SOLVENT NAPHTHA) Transport hazard class(es) : 9 Packing Group ; III Labels : 9 Environmental hazards : Environmentally hazardous

#### **Sea transport(IMDG)**

UN Number : UN 3082 UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SOLVENT NAPHTHA) Transport hazard class(es) : 9 Packing Group ; III Labels : 9 Environmental hazards : Marine Pollutant

#### **Air transport (IATA-DGR)**

UN Number : UN 3082 UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SOLVENT NAPHTHA) Transport hazard class(es) : 9 Packing Group ; III Labels : 9

**14.6 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



Hazard Statements	H304 May be fatal if swallowed and enters airways H317 May cause an allergic skin reaction H412 Harmful to aquatic life with long lasting effects
-------------------	---

## **CLAYTON PLANT PROTECTION**

**CLAYTON UNION** Safety Data Sheet according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010.  
Version 1/dsc 18/08/2015. This version replaces all previous versions.

Precautions statements	P102 Keep out of reach of children P261 Avoid breathing dust/fumes/gas/mist/vapours/spray P280 Wear protective gloves/protective clothing P301/310 IF SWALLOWED immediately call a poison centre or doctor/physician P331 Do NOT induce vomiting P302/352 IF ON SKIN wash with plenty of soap and water P333/313 If skin irritation or rash occurs, get medical advice/attention 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
------------------------	---

Hazardous components which must be listed on the label: · solvent naphtha (petroleum), highly arom.

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

### **Section 16. Other Information**

Full text of R-phrases referred to under sections 2 and 3:

R38 Irritating to skin

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

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.

H411 Toxic to aquatic life with long lasting effects

H412 Harmful to aquatic life with long lasting effects.

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.