

## **CLAYTON PLANT PROTECTION**

**CLAYTON BONSAI** Safety Data Sheet according to Regulation (EU) No. 453/2010. Version 1/dsc 3/3/2017

This version replaces all previous versions

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

1.1. Product identifier CLAYTON BONSAI MAPP17983

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

1.3. Details of the supplier of the safety data sheet : Marketing Company in UK

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

According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (Inhalation - dust)

Acute Tox. 4 (oral)

STOT SE 3 (irritating to respiratory system)

STOT RE (Gastrointestinal tract) 2 (oral)

Aquatic Acute 1

Aquatic Chronic 1

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:

Harmful by inhalation.

Harmful if swallowed.

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

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word: Warning

Hazard Statement:

H332 Harmful if inhaled.

H302 Harmful if swallowed.

H335 May cause respiratory irritation.

H373 May cause damage to organs (Gastrointestinal tract) through prolonged or repeated exposure (oral).

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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

Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.

P260 Do not breathe dust/gas/mist/vapours.

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

P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P311 Call a POISON CENTRE or doctor/physician.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301 + P330 IF SWALLOWED: rinse mouth.

P391 Collect spillage.

Precautionary Statements (Storage):

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

Labelling of special preparations (GHS):

EUH208: May produce an allergic reaction. Contains: TEBUFENPYRAD

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According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: TEBUFENPYRAD, SODIUM DODECYL SULPHATE

According to Directive 67/548/EEC or 1999/45/EC

Classification/labelling in accordance with UK regulations.

Hazard symbol(s) Xn Harmful.

N Dangerous for the environment.



R-phrases(s)

R20 Harmful by inhalation.

R22 Harmful if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S2 Keep out of the reach of children.

S13 Keep away from food, drink and animal feeding stuffs.

S20/21 When using do not eat, drink or smoke.

S35 This material and its container must be disposed of in a safe way.

S46 If swallowed, seek medical advice immediately and show this container or label.

S57 Use appropriate container to avoid environmental contamination.

Hazard determining component(s) for labelling: TEBUFENPYRAD, SODIUM DODECYL SULPHATE

The product contains: TEBUFENPYRAD : May produce an allergic reaction.

### 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

See section 12 - Results of PBT and vPvB assessment.

If applicable, information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

## **SECTION 3: Composition/Information on Ingredients**

3.1. Substances : Not applicable

3.2. Mixtures :

Chemical nature : crop protection product, acaricide, Wettable powder (WP)

Hazardous ingredients (GHS) according to Regulation (EC) No. 1272/2008

Tebufenpyrad : Content (W/W): 20 % CAS Number: 119168-77-3 Acute Tox. 4 (Inhalation - dust).

Acute Tox. 3 (oral). Skin Sens. 1B . STOT RE (Gastrointestinal tract) 2 (oral) Aquatic Acute 1. Aquatic Chronic 1.

M-factor acute: 10. M-factor chronic: 10. H332, H301, H317, H373, H400, H410

Sodium dodecyl sulphate : Content (W/W): < 5 % CAS Number: 151-21-3 EC-Number: 205-788-1

REACH registration number: 012119489461-32 Flam. Sol. 2 Acute Tox. 4 (Inhalation - dust) Acute Tox. 4 (oral)

Skin Corr./Irrit. 2 Eye Dam./Irrit. 1 STOT SE 3 (irr. to respiratory syst.) Aquatic Chronic 3

H228, H318, H315, H332, H302, H335, H412

Specific concentration limit: Eye Dam./Irrit. 2: 10 - < 20 % Eye Dam./Irrit. 1: >= 20 %

oleylaminethoxylate, polymer, starting materials listed in EINECS Content (W/W): < 5 % CAS Number: 26635-93-8

Acute Tox. 4 (oral) Skin Corr./Irrit. 2 Eye Dam./Irrit. 1 Aquatic Acute 1 Aquatic Chronic 1

H318, H315, H302, H400, H410

Alcohols, C12-15, ethoxylated Content (W/W): < 3 % CAS Number: 68131-39-5 Acute Tox. 4 (oral) Skin Corr./Irrit. 2

Eye Dam./Irrit. 1 Aquatic Chronic 2 H318, H315, H302, H411

Sodium dioctyl sulfosuccinate Content (W/W): < 3 % CAS Number: 1639-66-3 EC-Number: 216-684-0

Skin Corr./Irrit. 2 Eye Dam./Irrit. 1 Aquatic Chronic 3 H318, H315, H412

Kaolin Content (W/W): < 60 % CAS Number: 1332-58-7 EC-Number: 310-194-1

Silicon dioxide Content (W/W): < 15 % CAS Number: 7631-86-9 EC-Number: 231-545-4

REACH registration number: 012119379499-16

Silica gel, precipitated, crystalline free Content (W/W): < 5 % CAS Number: 112926-00-8

REACH registration number: 012119379499-16

Hazardous ingredients according to Directive 1999/45/EC

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Tebufenpyrad Content (W/W): 20 % CAS Number: 119168-77-3 Hazard symbol(s): Xn, N  
R-phrase(s): 20/22, 43, 50/53

Sodium dodecyl sulphate Content (W/W): < 5 % CAS Number: 151-21-3 EC-Number: 205-788-1  
REACH registration number: 01-2119489461-32 Hazard symbol(s): F, Xn R-phrase(s): 41, 11, 37/38, 20/22

oleylaminethoxylate, polymer, starting materials listed in EINECS Content (W/W): < 5 % CAS Number: 26635-93-8  
Hazard symbol(s): Xn, N R-phrase(s): 22, 38, 41, 50/53

Alcohols, C12-15, ethoxylated Content (W/W): < 3 % CAS Number: 68131-39-5 Hazard symbol(s): Xn, N  
R-phrase(s): 22, 38, 41, 51/53

Sodium dioctyl sulfosuccinate Content (W/W): < 3 % CAS Number: 1639-66-3 EC-Number: 216-684-0  
Hazard symbol(s): Xi R-phrase(s): 38, 41, 52/53

Kaolin Content (W/W): < 60 % CAS Number: 1332-58-7 EC-Number: 310-194-1

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Silica gel, precipitated, crystalline free Content (W/W): < 5 % CAS Number: 112926-00-8  
REACH registration number: 01-2119379499-16

For the classifications not written out in full in this section, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, the full text is listed in section 16.

### **SECTION 4: First-Aid Measures**

4.1. Description of first aid measures First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing. Show container, label and/or safety data sheet to physician.

If inhaled: Keep patient calm, remove to fresh air, seek medical attention.

On skin contact: Wash thoroughly with soap and water.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

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

4.2. Most important symptoms and effects, both acute and delayed Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

4.3. Indication of any immediate medical attention and special treatment needed Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### **SECTION 5: Fire-Fighting Measures**

5.1. Extinguishing media Suitable extinguishing media: dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons: carbon dioxide

5.2. Special hazards arising from the substance or mixture carbon monoxide, hydrogen chloride, carbon dioxide, nitrogen oxides, organochloric compounds. The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters. Special protective equipment: Wear self-contained breathing apparatus and chemical-protective clothing.

Further information: In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### **SECTION 6: Accidental Release Measures**

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

6.2. Environmental precautions. Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental

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Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

6.3. Methods and material for containment and cleaning up. For small amounts: Contain with dust binding material and dispose of. For large amounts: Sweep/shovel up. Avoid raising dust. Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

6.4. Reference to other sections Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

### **SECTION 7: Handling and Storage**

7.1. Precautions for safe handling No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion: Dust can form an explosive mixture with air. Avoid dust formation. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

7.2. Conditions for safe storage, including any incompatibilities Segregate from foods and animal feeds. Further information on storage conditions: Protect against moisture. Keep away from heat. Protect from direct sunlight. Protect from temperatures above 30 °C. Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

7.3. Specific end use(s). For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

### **SECTION 8: Exposure Controls/Personal Protection**

#### 8.1. Control parameters

Components with occupational exposure limits :-

1332-58-7: Kaolin TWA value 2 mg/m<sup>3</sup> (WEL/EH 40 (UK)), Respirable dust

7631-86-9: Silicon dioxide TWA value 6 mg/m<sup>3</sup> (WEL/EH 40 (UK)), Inhalable dust

TWA value 2.4 mg/m<sup>3</sup> (WEL/EH 40 (UK)), Respirable dust

Refer to the current edition of HSE Guidance Note EH40 Occupational Exposure Limits (United Kingdom).

For normal use and handling refer to the product label/leaflet. In all other cases the following apply.

#### 8.2. Exposure controls

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

Hand protection: Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures : The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

### **SECTION 9: Physical and Chemical Properties**

#### 9.1. Information on basic physical and chemical properties

Form: powder

Colour: beige

Odour: faint odour Odour threshold: Not determined since harmful by inhalation.

pH value: approx. 8 - 9 (1 %(m), 21 °C) (as suspension)

Melting point: > 460 °C The data given are those of the active ingredient.

Boiling point: The product is a non-volatile solid.

Flash point: not applicable

Evaporation rate: not applicable

Flammability: not self-igniting (Directive 92/69/EEC, A.10)

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

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

Vapour pressure: The product has not been tested.

Relative vapour density (air): not applicable

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Solubility in water: dispersible

Partitioning coefficient n-octanol/water (log Kow): not applicable

Self ignition: not self-igniting (Method: Directive 92/69/EEC, A.16)

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, dynamic: not applicable, the product is a solid

Explosion hazard: Based on the chemical structure there is no indicating of explosive properties. (Directive 92/69/EEC, A.14)

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing. (Directive 92/69/EEC, A.17)

9.2. Other information : Bulk density: approx. 300 - 400 kg/m<sup>3</sup> (20 °C)

### **SECTION 10: Stability and Reactivity**

10.1. Reactivity No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions No hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to avoid See MSDS section 7 - Handling and storage.

10.5. Incompatible materials. Substances to avoid: strong acids, strong bases, strong oxidizing agents

10.6. Hazardous decomposition products. No hazardous decomposition products if stored and handled as prescribed/indicated.

### **SECTION 11: Toxicological Information**

11.1. Information on toxicological effects

Acute toxicity : Assessment of acute toxicity: The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Of moderate toxicity after short-term inhalation. Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact.

Experimental/calculated data: LD50 rat (oral): 1,278 mg/kg. LC50 rat (by inhalation): 2.1 mg/l 4 h

LD50 rat (dermal): > 4,000 mg/kg No mortality was observed.

Irritation : Assessment of irritating effects: Not irritating to the eyes. Not irritating to the skin.

Experimental/calculated data: Skin corrosion/irritation rabbit: non-irritant The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Serious eye damage/irritation rabbit: non-irritant

Respiratory/Skin sensitization : Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

Experimental/calculated data: modified Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies.

Germ cell mutagenicity : Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity : Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Information on: Kaolin : Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests. However, the relevance of this result for humans is unclear.

Reproductive toxicity : Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity : Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Specific target organ toxicity (single exposure) : Assessment of STOT single: Causes temporary irritation of the respiratory tract.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure) : Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. Information on: Tebufenpyrad : Assessment of repeated dose toxicity: Repeated oral exposure may affect certain organs. Damages the gastrointestinal tract.

Information on: Sodium dodecyl sulphate Assessment of repeated dose toxicity: Adaptive effects were observed after repeated exposure in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Repeated exposure to large quantities may affect certain organs.

Information on: Silicon dioxide. Assessment of repeated dose toxicity: Repeated inhalative uptake of particles/dust reaching the alveoli may cause damage to the lungs.

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Information on: Silica gel, precipitated, crystalline free Assessment of repeated dose toxicity: The substance may cause damage to the lung after repeated inhalation of high doses.

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

### **SECTION 12: Ecological Information**

12.1. Toxicity : Assessment of aquatic toxicity: Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Toxicity to fish: LC50 (96 h) 0.019 mg/l, *Oncorhynchus mykiss*

Aquatic invertebrates: LC50 (48 h) 0.277 mg/l, *Daphnia magna*

Aquatic plants: EC50 (72 h) 6.6 mg/l, *Pseudokirchneriella subcapitata*

12.2. Persistence and degradability : Assessment biodegradation and elimination (H<sub>2</sub>O): The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Tebufenpyrad. Assessment biodegradation and elimination (H<sub>2</sub>O): Not readily biodegradable (by OECD criteria).

12.3. Bioaccumulative potential : Assessment bioaccumulation potential: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Tebufenpyrad. Bioaccumulation potential: Bioconcentration factor: 33 (OECD Guideline 305 E) Does not accumulate in organisms.

12.4. Mobility in soil : Assessment transport between environmental compartments: Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Tebufenpyrad. Assessment transport between environmental compartments: Adsorption in soil:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

12.5. Results of PBT and vPvB assessment : The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects : The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.7. Additional information : Other ecotoxicological advice: Do not discharge product into the environment without control.

### **SECTION 13: Disposal Considerations**

13.1. Waste treatment methods : Must be sent to a suitable incineration plant, observing local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom). This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

### **SECTION 14: Transport Information**

#### **Land transport**

ADR : UN number UN3077 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains TEBUFENPYRAD 20%, ALCOHOL ETHOXYLATE) Transport hazard class(es): 9, EHSM Packing group: III Environmental hazards: yes Special precautions for user: Tunnel code: E

RID : UN number UN3077 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains TEBUFENPYRAD 20%, ALCOHOL ETHOXYLATE) Transport hazard class(es): 9, EHSM Packing group: III Environmental hazards: yes Special precautions for user: None known

#### **Inland waterway transport**

ADN UN number UN3077 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains TEBUFENPYRAD 20%, ALCOHOL ETHOXYLATE) Transport hazard class(es): 9, EHSM Packing group: III Environmental hazards: yes Special precautions for user: None known  
Transport in inland waterway vessel: Not evaluated

#### **Sea transport**

IMDG UN number: UN 3077 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains TEBUFENPYRAD 20%, ALCOHOL ETHOXYLATE) Transport hazard class(es): 9, EHSM Packing group: III Environmental hazards: yes Marine pollutant: YES Special precautions for user: None known

#### **Air transport**

IATA/ICAO UN number: UN 3077 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains TEBUFENPYRAD 20%, ALCOHOL ETHOXYLATE) Transport hazard class(es): 9, EHSM Packing group: III Environmental hazards: yes Special precautions for user: None known

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

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

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

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

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

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

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Regulation: Not evaluated Shipment approved: Not evaluated Pollution name: Not evaluated Pollution category: Not evaluated Ship Type: Not evaluated Further information : This product is subject to the most recent edition of "The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations" and their amendments (United Kingdom).

### **SECTION 15: Regulatory Information**

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

To avoid risks to man and the environment, comply with the instructions for use. The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom). This product is classified under the Chemicals (Hazard Information and Packaging) Regulations, (CHIP) (United Kingdom). This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (United Kingdom).

15.2. Chemical Safety Assessment : Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

### **SECTION 16: Other Information**

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of the classifications, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, if mentioned in section 2 or 3:

Xn Harmful. N Dangerous for the environment. F Highly flammable. Xi Irritant. 20/22 Harmful by inhalation and if swallowed. 43 May cause sensitization by skin contact. 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 41 Risk of serious damage to eyes. 11 Highly flammable. 37/38 Irritating to respiratory system and skin. 22 Harmful if swallowed. 38 Irritating to skin. 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Acute Tox. Acute toxicity STOT SE Specific target organ toxicity — single exposure STOT RE Specific target organ toxicity — repeated exposure Aquatic Acute Hazardous to the aquatic environment - acute Aquatic Chronic Hazardous to the aquatic environment - chronic	Skin Sens. Skin sensitization Flam. Sol. Flammable solids Skin Corr./Irrit. Skin corrosion/irritation Eye Dam./Irrit. Serious eye damage/eye irritation H332 Harmful if inhaled. H301 Toxic if swallowed. H317 May cause an allergic skin reaction. H373 May cause damage to organs (Gastrointestinal tract) through prolonged or repeated exposure (oral). H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H228 Flammable solid. H318 Causes serious eye damage. H315 Causes skin irritation. H302 Harmful if swallowed. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects. H411 Toxic 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.