SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

CLAYTON ZEBO

Publish Date 13-June-2018

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

1.1. Product identifier

CLAYTON ZEBO

Pure substance/mixture Mixture

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

Recommended Use Fungicide

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address Clayton Plant Protection, Bracetown Business park,

Clonee, Dublin 15, Ireland, Tel. +353 1 8210127

Website; www.claytonpp.com

For further information, please contact

info@claytonpp.com

Email address

1.4. Emergency telephone number

Emergency Telephone National Chemical Emergency Centre (UK):

Tel: 01865 407333 (24 hours)

Section 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Respiratory/skin sens. Category 1 - (H317)
Reproductive toxicity Category 2 - (H361d)
Hazardous to the Aquatic Category 1 - (H400)

Environment



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

Full text of R-phrases: see section 16

Repro cat.3, Dangerous for the environment R63, R43, Xn, R50, N

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Signal word Warning

Hazard Statements
H317 - May cause an allergic skin reaction

H361d - Suspected of damaging the unborn child

H400 - Very toxic to aquatic life

Precautionary Statements P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P261 - Avoid breathing dust

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

EU Specific Hazard Statements P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P308+P313 - IF exposed or concerned: Get medical advice/attention

P405 - Store locked up

P501 - Dispose of contents/container in accordance with local and national regulations

Additional phrases for PPP 2.3.

Other hazards Risk of dust explosion

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Chemical Name	Weight- %	CAS No	EC No	Index No		Classification according to 67/548/EEC
Mancozeb	75	8018-01-7	-	-	Repr. 2, H361d	Xn; Repr. Cat



CLAYTON ZEBO						
					Skin Sens. 1, H317 Aquatic Acute 1, H400	3, N, R43, R63, R50
Inert ingredients	25	-	-	-	-	-

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

Inhalation a physician immediately.

Wash off immediately with soap and plenty of water while removing all contaminated

Skin Contact clothes and shoes. Consult a physician if necessary.

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and Eye contact

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, consult an opthalmologist.

Ingestion Do not induce vomiting. Rinse mouth. Provided the patient is conscious, drink plenty of water.

Consult a physician. The decision to induce vomiting should be made by a physician.

4.2. Most important symptoms and effects, both acute and delayed symptoms

Skin Contact There may be mild irritation at the site of contact

Eye Contact There may be redness and irritation. Vision may be blurred. There may be soreness and redness of the throat and mouth Ingestion

4.3. Indication of any immediate medical attention and special treatment needed

Supportive care. Treatment symptomatic by a physician.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media



Suitable Extinguishing Media

Water spray, Carbon Dioxide, Dry chemical powder, alcohol or polymer foam.

Unsuitable Extinguishing Media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Combustion products such as hydrogen sulphide, carbon disulphide, nitrogen, sulphur and carbon oxides.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus In the event of fire and/or explosion do not breathe fumes

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal. Do not use equipment which may produce sparks.

6.4. Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling



Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

7.3. Specific end use(s)

Must only be kept in original packaging

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.2. Exposure controls

Engineering Controls

Personal protective equipment

Respiratory protection

Hand/Skin Protection

Ensure adequate ventilation, especially in confined areas.

Wear dual cartridge respirator for dust and mists. For most conditions, no respiratory equipment is needed. For emergency conditions use a pressure positive self contained

breathing apparatus.

Use chemical resistant gloves according to EN 374. Examples of these are nitrile, PVC or neoprene. When prolonged or repeated contact may occur, use a class 5 or higher glove. When prolonged use/contact with this material may occur, wear clothing impervious to this

material.

For emergency use use protective clothing impervious to this material.

Safety glasses for most operations. For dusty operations use chemical goggles.

ventilation may be necessary for some operations.

Engineering controls

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<u>Property</u> <u>Values</u> <u>Method</u> <u>Remarks</u> Appearance



Physical state : Granules
Color : Green/yellow
Odor : Sulphurous

Odor threshold: No data availablepH: No data available

Melting point/freezing point °C : Decomposes 192°C
Boiling point/boiling range °C : No data available
Flash point °C : Not Applicable
Evaporation rate : Not Applicable
Flammability (solid, gas) : No data available
Upper/lower flammability or : No data available
explosive limits Vapor : No data available

explosive limits Vapor : No data available pressure kPa : Negligible Relative density : No data available Solubility in water : Dispersible Partition Coefficient : No data available : No data available : No data available

Partition Coefficient : No data available (n-octanol/water) Log Pow : No data available Autoignition temperature °C : No data available Decomposition temperature °C : 192°C - 204°C

Kinematic viscosity mm2/s 40 °C : Not applicable

Explosive properties : No data available : Oxidizing properties : No data available

9.2. Other information
Bulk density g/ml

Surface tension mN/m : Not applicable

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No dangerous reactions known under normal conditions of use

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Acids and moisture, excessive heat, open flames.

10.4. Conditions to avoid

Acids and moisture (in storage), heat, flames and sparks.

10.5. Incompatible materials



Acids

10.6. Hazardous decomposition products

ValuesSpeciesMethodRemarksHydrogen sulphide, Carbon disulphide.: >5000RatOECD 401

: >5000 Rabbit

:>5.14 Rat

Rection: Non-irritating to the skin Rabbit OECD 404

Section : Non-irritating to the skin May cause eye irritation

11: Guinea pig OECD 406

: No respiratory sensitisation

TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Chemical Name

Acute toxicity

Oral LD50 mg/kg

Dermal LD50 mg/kg : Negative

Inhalation LC50 mg/l/4h Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory/skin sensitization

Respiratory/skin sensitization : Active causes cancer at high doses

Chronic toxicity

Germ cell mutagenicity

Chemical Name : Not toxic for the reproductive system

Carcinogenicity

Chemical Name : Available data suggests this is not an STOT-SE Toxicant

Reproductive toxicity.

Chemical Name

: In animals, effects have been reported on: Thyroid, Liver.

STOT - single exposure

Chemical Name

le exposure

STOT - repeated exposure

Chemical Name : Based on physical properties, not likely

Aspiration hazard

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

Acute toxicity Values Species Method Remarks



Fish 96-hour LC50 mg/l : 5.1 Cyprinus carpio OECD 203

Crustacea 48-hour EC50 mg/l: 4.23Daphnia magnaOECD 202Algae 72-hour EC50 mg/l: 0.15PseudokirchneriellaOECD 201

Other plants EC50 mg/l : OECD 221 Not available

Terrestrial Toxicity Birds Oral LD50 mg/kg Chemical Name

Folpet

Bees

Oral (ug/bee)

CLAYTON ZEBO :>100

12.2. Persistence and degradability

Abiotic Degradation <u>Values</u> <u>Method</u> OECD <u>Remarks</u>

Water DT50 Chemical 1

Name

Mancozeb PH 7

Soil DT50 days Chemical Name

Mancozeb :Not available

Biodegradation Chemical Name Mancozeb

12.3. Bioaccumulative potential :Not available

Partition Coefficient (n-octanol/water) Log Pow

Chemical Name

Mancozeb

: <3

Values

Bioconcentration factor (BCF)

Chemical Name

Mancozeb

Mancozeb : 2.1-3.1

12.4. Mobility in soil

Adsorption/Desorption Chemical Name

Chemical Name <u>Values</u>

<u>Method</u> <u>Remarks</u>

: 500 - 2000 (1000 estimated) Koc

Method

Remarks

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused

products

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging

Other Information

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

Waste codes should be assigned by the user based on the application for which the

product was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO 14.1 UN/ID No

14.1 UN/ID NU 14.2 Proper chippi

14.2 Proper shipping name

14.3 Hazard Class

14.4 Packing Group 14.5 Marine pollutant

14.6 Special precautions for user

3077
ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, SOLID,
N.O.S. (Mancozeb) 9
III

Yes





RID/ADR

14.1 UN/ID No 3077

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Mancozeb)

14.3 Hazard Class 9

14.4 Packing Group

14.5 Environmental hazard Yes

14.6 Special precautions for user Not applicable

ICAO/IATA

14.1 UN/ID No 3077

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Mancozeb)

14.3 Hazard Class 9

14.4 Packing Group

14.5 Environmental hazard Yes

14.6 Special precautions for user Not Applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code



Section 15: REGULATORY INFORMATION

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

15.2. Chemical safety assessment

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

Section 16: OTHER INFORMATION

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

R50 - Very toxic to aquatic organisms

R63 - Possible risk of harm to the unborn child

Full text of H-Statements referred to under sections 2 and 3

H317 - May cause an allergic skin reaction H361d - Suspected of damaging the unborn child H400 - Very toxic to aquatic life

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

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet