

Safety Data Sheet
according 1907/2006/EC (REACH), 2015/830/EU

Ripen

Date : 01 january 2008

Version No. 3

Review date: 06 june 2019

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

Product identifier

1.1 Product name: RIPEN

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture:
Ripen is a mixture of mineral salts formulated and mixed in proportions that ensure optimal plant nutrition.

Uses advised against:

Any use not specified in this section or in section 7.3

Use Descriptor System (REACH): No data available (not applicable).

1.3 Details of the supplier of the safety data sheet

Supplier identification Général Hydroponics Europe
Address 4, boulevard du Biopole 32500 FLEURANCE
Phone number +33 (0)5 62 06 08 30
E-mail address info@eurohydro.com

1.4 Emergency telephone number

Medical services/
emergency services **15**

Fire and rescue services **18**

Police **17**

1.4 EU Emergency call line **112**

Toxicological Information Centre **01 45 41 59 59**

ORFILA (INRS)
Toxicological Information Centre
South West **05 61 77 74 47**

2 SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Reg. 1272/2008/CLP In accordance with Regulation No. 1272/2008 (CLP), the product is not considered dangerous.

Additional information :

Hazards for humans Ingestion of Ripen may cause gastrointestinal distress with abdominal pain, nausea, vomiting, and diarrhea. As long as these chemicals remain in aqueous solution they do not present an inhalation hazard.

Eye contact: May cause eye irritation

Environmental hazards None

Physico-chemical hazards None

Other hazards None

Labelling elements

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

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| 2.2 | Hazard pictograms | None |
| | Signal word | None |
| | Hazardous substances to be indicated on the label | None |
| | Hazard statements H: | None |
| | Precautionary statements P: | Phrases P P102 Keep out of reach of children |

2.3 Other hazards

Reg. 1272/2008/CLP None

3 SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Non applicable

3.2 Mixtures Name RIPEN
A mixture of minerals not containing substances classified as hazardous to health or the environment in accordance with the instructions of Directives 67/548/EEC and/or Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adaptations).
Composition: Ripen is a mixture of chemical products, formulated and mixed in proportions that ensure optimal plant nutrition. The exact nature of the components and their proportions are a trade secret. However, they are derived from: Phosphoric acid, mono and bi-potassium phosphate, magnesium phosphate, potassium carbonate and magnesium sulphate.

4 SECTION 4 : FIRST AID MEASURES

No known incidents of damage to persons who have used this product.

However, in case of doubt or if symptoms persist, seek medical attention. Do not give anything by mouth to an unconscious person. The general measures described below should be adopted:

4.1 Description of first aid measures

Following eye contact Do not allow the victim to rub their eyes or keep their eyes closed. Immediately flush eyes, including under the eyelids, with plenty of clean, clear water for at least 15 minutes. Check if the victim is wearing contact lenses and if so, remove them. Consult a doctor immediately.

Following skin contact Rinse the irritated area thoroughly with water with soap for at least 15 minutes. Remove contaminated clothing.

Following ingestion Rinse the mouth with water. If a person has swallowed this product and is conscious, give small amounts of water to drink. Do not induce vomiting unless directed to do so by medical

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| | personnel. Never give anything by mouth to an unconscious person. Call a doctor if adverse health effects persist or worsen. |
| Following inhalation | If inhaled, move to fresh air, keep the victim warm and in a resting position. In case of breathing difficulties, consult a doctor as soon as possible. |
| Self-protection of the first aider | No action should be taken that involves an individual risk or in the absence of appropriate training. If it is suspected that fumes are present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It can be dangerous for the person assisting a victim to practice mouth-to-mouth. Always wear protective gloves and a resuscitation mask in case of artificial respiration. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |
| Other information | For further details of first aid administration, including but not limited to more serious health effects, the doctor may consult the Toxicological Information Centre, hotline: see section 1.4 |
| 4.2 | <p>Most important symptoms and effects, both acute and delayed</p> <p>Potential acute health effects: No known effect / no data are available.</p> <p>Signs/symptoms of overexposure: No specific data.</p> |
| 4.3 | <p>Indication of any immediate medical attention and special treatment needed</p> <p>Note to the attending physician Symptomatic treatment required. No special treatment.</p> <p>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</p> |

5 SECTION 5 : FIREFIGHTING MEASURES

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| | Extinguishing media | The product is not flammable. Fire hazard low due to the flammability characteristics of the product under normal storage, handling and use conditions. |
| 5.1 | | <p>Suitable extinguishing media:</p> <p>In the event of a surrounding fire or continued combustion, caused by improper handling, storage or use, the following extinguishing media may be used: carbon dioxide (CO2), foam, chemical powders, and in the event of a widespread fire, also water spray.</p> <p>Inappropriate extinguishing media: In case of fire, do not use: Water jet</p> |
| 5.2 | Special hazards arising from the substance or mixture | <p>Hazards due to the substance or mixture: Given its flammability characteristics, the product does not present a specific risk of fire or explosion under normal storage, handling and use conditions.</p> <p>Risk related to thermal decomposition products: A fire in the surrounding area will often produce thick black smoke. Exposure to compositional products may pose health risks. Do not breathe dust, vapours or fumes released by the combustion of the products.</p> <p>Decomposition products may include the following materials: phosphorus oxide, magnesium oxide, potassium oxide(s) and sulphur oxide(s).</p> |
| | Advice for firefighters | <p><u>Protective actions to be taken when fighting fires</u> None</p> <p><u>Appropriate protective equipment</u> The product is not combustible. In the event of a fire in the surrounding area, appropriate</p> |

- 5.3 extinguishing media and protective equipment may be used for the other materials present (full protective clothing and personal respiratory equipment), in accordance with EN469 for a basic level of protection against chemical incidents. Have a minimum of emergency facilities or intervention elements (fire blankets, medicine kit, etc.) in accordance with Directive 89/654/EC.
- Other information**
- Additional provisions:
- Respond in accordance with the Internal Emergency Plan and the Fact Sheets on Accident and Other Emergency Response. Remove all sources of ignition. In case of fire, refrigerate containers and storage tanks for products that may ignite and explode as a result of high temperatures. Avoid spilling products used to extinguish the fire in the aquatic environment.
- 5.4

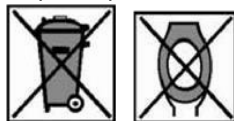
6 SECTION 6 : ACCIDENTAL RELEASE MESURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel No action should be taken that involves an individual risk or in the absence of appropriate training. Evacuate the area. Prevent access to persons not required and not wearing protective clothing. Ensure adequate ventilation. Wear protective equipment.

For emergency responders If specific clothing is required to handle the spill, refer to Section 8 for appropriate and inappropriate materials. See also the information contained in "For personnel other than response personnel"

Environmental precautions



- 6.2 Avoid contamination of soil, sewers, surface water and groundwater. If this happens, inform the competent authorities.

Methods and material for containment and cleaning up

- 6.3 For containment: Sewer coverage
- For cleaning up: Ripen can be disposed of in the same way as any industrial fertilizer. Collect the spilled product by mechanical means and remove any residues by water jets. Provide adequate ventilation at the location of the spill. The disposal of the contaminated material must be carried out in accordance with the provisions of point 13.
- Reference to other sections**
- 6.4 Collect the remains in an identified container: see point 13 for disposal.
- Personal protective equipment: see section 8
- Withdrawal considerations: see section 13.
- See section 1 for emergency contact information.

7 SECTION 7 : HANDLING AND STORAGE

Precautions for safe handling

- 7.1 Avoid the formation of suspended particles and the dispersion of the product in the air. Use adequate ventilation in areas where suspended particles develop. Keep away from flames and sparks. Do not smoke. Keep away from heat sources and other sources of fire.

Advice on professional hygiene in general:

It is prohibited to eat, drink or smoke in areas where this product is handled, stored or used.

It is recommended that staff wash their hands and face before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering a food court. See also section 8 for more information on hygiene measures.

Conditions for safe storage, including any incompatibilities

7.2

Store in accordance with local regulations. Store in the original container away from direct sunlight in a dry, cool and well-ventilated place away from incompatible materials (see section 10). Keep container tightly closed when not in use. Containers that have been opened must be carefully closed again and kept in an upright position to prevent leaks. Do not store in unlabelled containers. Do not store in the presence of food products. Store away from aluminum, ethoxyethyl alcohols, combustible materials, reducing agents, and other incompatible materials. Use an appropriate container to avoid contamination of the surrounding environment. Surround storage facilities with containment dykes to prevent soil and water pollution in the event of a spill.

Specific end use(s)

7.3

No specific end uses.

Good practices: keep in closed containers. Close containers before and after each use to avoid sources of moisture or heat. Store in areas with waterproof pavement.

8 SECTION 8 : EXHIBITION CONTROLS/INDIVIDUAL PROTECTION

8.1 Control parameters

Not applicable

8.1

Respect good industrial hygiene practices.

8.2 Exposure controls

Appropriate engineering controls

No particular control. Good general ventilation should be sufficient to control workers' exposure to airborne contaminants.

Individual protection measures, such as personal protective equipment

In general, use individual protections placed on the market in accordance with the provisions of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016. Personal protective equipment must be adapted to the risk, kept clean and properly maintained in accordance with the provisions of the Labour Code.

Eye/face protection

It is necessary to wear protective glasses in accordance with NF EN166 before handling any chemical products in case of splashes.

Skin protection

Hands: Wear suitable protective gloves in case of prolonged or repeated contact with the product.

Use suitable chemical-resistant protective gloves in accordance with NF EN374.

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

Respiratory protection

Ensure adequate ventilation, especially in enclosed areas.

Body protection

Wear appropriate protective clothing.

After contact with the product, all parts of the body that have been in contact with the product must be washed.

Environmental exposure controls

No data available.

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

9 SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical state: All Ripen compounds are in aqueous solution (liquid)

Color: pink

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| Odour | No odor |
| pH | 3.7 |
| Melting point | Not applicable |
| Freezing point | Not determined |
| Initial boiling point and boiling range | Not determined |
| Flash point | Not applicable |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | Non inflammable |
| Upper/lower flammability or explosive limits | Not applicable |
| Vapour pressure | Not determined |
| Vapour density | Not determined |
| Relative density | 1.19 |
| Solubility(ies) 20°C | Entirely Soluble |
| Partition coefficient: n-octanol/water | Not determined |
| Auto-ignition temperature | Not determined |
| Decomposition temperature | Not determined |
| Viscosity | Not determined |
| Explosive properties | Not determined |
| Oxidising properties | Not determined |
| Refraction index | Not determined |
| Rotary power | Not determined |

10 SECTION 10 : STABILITY AND REACTIVITY

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| 10.1 | Reactivity | No specific reactivity test data are available for this product or its components in normal conditions of use. |
| 10.2 | Chemical stability | The product is stable at room temperature in closed packages and under normal storage and handling conditions. No hazardous polymerization can be produced by any of these components |
| 10.3 | Possibility of hazardous reactions | No risk of dangerous reactions under normal use and storage conditions. |
| 10.4 | Conditions to avoid | No special conditions to avoid. Comply with usual precautionary practices regarding chemicals. |
| 10.5 | Incompatible materials | Ripen contains elements that can react violently if mixed with active metals such as aluminium or magnesium. Violent reactions may occur with ethoxyethynyl alcohols. |
| 10.6 | Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. At very high temperatures, decomposition products are formed: phosphorus oxide, magnesium oxide, potassium oxide(s) and sulphur oxide(s). |

11 SECTION 11 : TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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| a) acute toxicity; (b) skin corrosion/irritation; (c) serious eye damage/irritation; (d) respiratory or skin sensitisation; (e) germ cell mutagenicity; (f) carcinogenicity; (g) reproductive toxicity; (h) STOT-single exposure; (i) STOT-repeated exposure; (j) aspiration hazard | Most of the chemicals in Ripen are toxic by ingestion, inhalation or skin contact. |
| Symptoms related to the physical, chemical and toxicological characteristics | Ingestion: No known significant effects or critical hazards. Inhalation: No known significant effects or critical hazards. Skin exposure: Slight irritation. No known significant effects or critical hazards. Eye exposure: Slight irritation. No known significant effects or critical hazards. |
| Delayed and immediate effects as well as chronic effects from short- and long-term exposure | Ingestion: Ingestion may cause gastrointestinal distress with abdominal pain, nausea, vomiting, and diarrhea. No known critical hazards. Inhalation: No known significant effects or critical hazards. Skin exposure: Slight irritation. No known significant effects or critical hazards. Eye exposure: Slight irritation. No known significant effects or critical hazards. Health effects are considered unlikely if the product is used as recommended |
| Interactive effects | No data available |
| Absence of specific data | No data available |
| Mixtures | No data available |
| Mixture versus substance information | Mixture not containing substances subject to registration. No known adverse effects or symptoms resulting from exposure to the mixture or its components. |
| Other information | Comply with good industrial hygiene practices |

12 SECTION 12 : ECOLOGICAL INFORMATION

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| 12.1 Toxicity | No known significant effects or critical hazards. |
| 12.2 Persistence and degradability | No data available to date to the best of our knowledge. |
| 12.3 Bioaccumulative potential | No data available to date to the best of our knowledge. |
| 12.4 Mobility in soil | No data available to date to the best of our knowledge. Waste generation should be avoided or minimized as much as possible, and the product should not be discharged into sewers or waterways. |
| 12.5 Results of PBT and vPvB assessment | No data available to date to the best of our knowledge. |
| 12.6 Other adverse effects | No known significant effects or critical hazards. |

13 SECTION 13 : DISPOSAL CONSIDERATIONS

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| Waste treatment methods | Do not discharge into my sewers or waterways. Waste: Waste management is carried out without endangering human health and without harming the environment, including without creating a risk to water, air, soil, fauna and flora. Recycle or dispose of in accordance with current legislation, preferably by an approved collector or company. |
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| 13.1 | Disposal of the product/packaging: it is prohibited to discharge it into sewers or waterways. Residues and empty containers must be handled and disposed of in accordance with the relevant local/national legislation in force. Follow the provisions of Directive 2008/98/EC on waste management. Ripen can be disposed of in the same way as any industrial fertilizer. Recover the product as much as possible. Follow local legislation. |
| Waste codes / waste designations according to LoW: | Not applicable |

14 SECTION 14 : TRANSPORT INFORMATION

Non-hazardous transport. In the event of an accident and product spillage, proceed as described in point 6

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| 14.1 | UN number | Not regulated. Non-hazardous transport |
| 14.2 | UN proper shipping name | - |
| 14.3 | Transport hazard class(es) | - |
| | ADR | Not regulated. Non-hazardous transport |
| | IMDG | |
| | OACI/IATA | |
| 14.4 | Packing group | - |
| 14.5 | Environmental hazards | No |
| 14.6 | Special precautions for user | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. Do not transport with food products. |
| 14.7 | Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not available |

15 SECTION 15 : REGULATORY INFORMATION

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

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| 15.1 | Reg. 1272/2008/CE | The product does not contain substances that can be classified as carcinogenic. 1 or 2 according to Reg.1272/2008/EC and subsequent updates. |
| | Reg. 830/2015/CE (REACH) | Not applicable |
| | Special hazards | To our knowledge, no other national or governmental regulations apply. |
| 15.2 | Chemical safety assessment | Evaluation not carried out |

16 SECTION 16 : OTHER INFORMATION

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| Abbreviations and acronyms: | ETA = Acute Toxicity Estimation CLP = Regulation 1272/2008/EC on classification, labelling and packaging of substances and mixtures |
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| | | DNEL = Derived no-effect dose |
| | | DMEL = Derived no-effect dose |
| | | EUH = Specific hazard statement CLP |
| | | CPSE = Predicted no-effect concentration |
| | | RRN = REACH registration number |
| | | PTB = Persistent, Toxic and Bioaccumulative |
| | | tPtB = Very persistent and very bioaccumulative |
| 16.1 | Key literature references and sources for data | bw = Body mass |
| | | Regulation (EC) 1907/2006 of the European Parliament (REACH) |
| | | Regulation (EC) 1272/2008 of the European Parliament (CLP) |
| | | Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP) |
| | | Regulation (EC) 453/2010 of the European Parliament Regulation (EC) 286/2011 of the European Parliament (II Atp. CLP) |
| 16.2 | | The Merck index. Ed. 10 Handling and chemical safety |
| | | Niosh - Register of toxic effects of chemical substances |
| | | INRS - Toxicological Data Sheet |
| | | Patty - Industrial hygiene and toxicology |
| | | N.I. Sax - Dangerous properties of Industrial Materials - 7 Ed., 1989 |
| | | ECHA website |
| 16.3 | Indication of changes: | Date of revision: 06/09/2019 |
| | | Previous version date: 20/06/2019 |
| | | Version: 3 |
| | | Amendment section 11.1. |
| 16.4 | Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: Note | Not applicable, to the best of our knowledge |
| | | The indicated mixture does not require an MSDS according to REACH requirements. Form prepared for information purposes. |
| | | This safety data sheet complies with the requirements established by Regulation 830/2015/EU. It does not in any way exempt the user from knowing and applying all the documents that govern his activity. The user will take under his responsibility the precautions related to the specific use of the product. All the regulatory requirements mentioned are intended simply to assist the recipient in fulfilling their responsibilities. This list should not be considered exhaustive. This sheet supplements the technical operating instructions but does not replace them. The information contained herein is based on our knowledge of the product on the date indicated. They are given in good faith. In addition, the user's attention is drawn to the possible risks involved when a product is used for purposes other than those for which it was created. |
| | | The information describes the safety aspects of the product. They are not intended to guarantee specific properties. |
| | | The addressee must ensure that he is not responsible for anything else according to texts other than those mentioned. |