

# Safety Data Sheet (SDS) Ripen-It

According to UN GHS 8th Ed

Revised Date: 20/05/2024

First print date: 01/06/2018

Version: 1.1

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

**Product identifier:**

**Identification as on the label/Trade name:** Ripen-It

**Common Name:** Ethephon 480 g/ℓ SL

**Relevant identification uses of the substance and uses advised against:**

**Identified uses:** Plant Growth Regulator

**Uses advised against:** Use only as directed.

**Details of the supplier of the Safety Data Sheet:**

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,  
Lichtenburg, North West, South Africa, 2740

**Details of the Registration Holder:**

RT Chemicals CC, 44 Kerk Street,  
Lichtenburg, North West, South Africa, 2740

**Contact Details:**

Telephone: +27 87 231 7261

Fax: 086 541 7948

Website: www.envirobiochem.co.za

**Emergency telephone numbers:**

**24 Hour Emergency Number: Bateleur: +27 83 123 3911**

Griffon Poison Information Centre: +27 82 446 8946

Poisons Information Helpline: 0861 555 777

Tygerberg Hospital: +27 21 931 6129

## SECTION 2. HAZARD IDENTIFICATION

**Classification of the substances or mixture**

**The mixture is classified according to Regulation (EC) No 1272/2008 EU-GHS/CLP**

Hazard classes/Hazard categories	Hazard statement
Acute toxicity oral (Category 4)	H302
Acute toxicity dermal (Category 3)	H311
Acute toxicity inhalation (Category 4)	H332
Skin corrosion (Category 1)	H314
Aquatic Toxicity Chronic (Category 2)	H411

**Label elements**



**Hazard pictograms:**

**Signal Word:** Danger

**Hazard Statements:**

H302	Harmful if swallowed
H311	Toxic in contact with skin

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H332	Harmful if inhaled
H314	Causes severe skin burns and eye damage
H411	Toxic to aquatic life with long lasting effects

## Precautionary Statements:

P102	Keep out of reach of children
P103	Read label before use
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash hands, forearms, and face thoroughly after handling
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water and non-abrasive soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P310	Immediately call a POISON CENTRE.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage
P405	Store locked up
P501	Dispose of contents/container in accordance with local/regional/ national regulations

Other hazards: None known

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

### Ingredients:

Substance name (IUPAC)	CAS Number.	Concentration % by weight	Classification EC1272/2008
Ethephon	16672-87-0	40%	Acute Toxicity (Category 4 ) H302 Acute Toxicity (Category 3) H311 Skin corrosion (Category 1C) H314 Acute Toxicity (Category 4) H332 Aquatic Chronic (Category 2) H411
Phosphorous acid	13598-36-2	<1%	Corrosive to Metals (Category 1), H290 Acute toxicity, Oral (Category 4), H302 Serious eye damage (Category 1), H318 Skin corrosion (Category 1A) H314
Phosphoric acid	7664-38-2	<1%	Corrosive to Metals (Category 1), H290 Acute Toxicity (Category 4 ) H302 Skin corrosion (Category 1B) H314 Serious eye damage (Category 1), H318

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Hydrochloric acid	7647-01-0	<1%	Acute Toxicity (Category 3) H331) Corrosive to Metals (Category 1), H290 Skin corrosion (Sub-category 1B), H314 Serious eye damage (Category 1), H318 STOTE - SE (Category 3), Respiratory system, H335 Pressure Gas (Comp.) H280
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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4. FIRST AID MEASURES

### Description of first aid measures:

**General:** Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure. Immediately consult a doctor

**In case of inhalation:** If inhaled, remove to fresh air. Treat symptomatically and supportively. Seek medical attention if you feel unwell after inhalation.

**In case of skin contact:** Remove contaminated clothing and shoes. Gently wipe off any excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Get medical advice if person feels unwell, or if irritation or rash develops. Wash clothing before reuse.

**In case of eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.

**In case of ingestion:** Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

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

Anticipated acute effects: Causes severe skin burns and eye damage. Harmful if swallowed or inhaled.

Anticipated delayed effects: None known.

Most important symptoms / effects: None known.

### Indication of any immediate medical attention and special treatment needed:

**Advice to Physician:** The product is an acid and is corrosive.

**Oral Exposure Treatment:** If the product has been ingested, do not give bicarbonate to neutralize and activated charcoal

is of no value. Dilute the acid by drinking large amounts of water or milk. Observe patient carefully for possible development of esophageal or gastrointestinal tract irritation or burns.

**Eye Damage Treatment:** It may take 48 to 72 hours after the burn to correctly assess the degree of ocular damage. If ocular damage is minor, topical mydriatics and antibiotics may be sufficient. If more extensive, consult ophthalmologist.

**Skin contact treatment:** Acute exposure: Chemical burns to skin are often associated with concurrent thermal burns and trauma. Systemic toxicity may as well occur from absorbed acid. Deep or extensive burns may require grafting. Chronic exposure: Prolonged or repeated exposure can result in dermatitis. Ulcerations may also occur. Treat symptomatically and supportively

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## SECTION 5. FIRE FIGHTING MEASURES

### Extinguisher media:

**Suitable** extinguisher media: Foam. Dry powder. Carbon dioxide. Water spray.

**Small Fire:** Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

**Large Fire:** Foam or water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

**Unsuitable** extinguishing media: Do not use high volume water jet, due to contamination risk.

### Special hazards arising from the mixture:

Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

### Advice for fire-fighters:

Fire may produce irritating or poisonous vapours, mists, or other products of combustion. Remove spectators from surrounding area. Evacuate downwind. Remove container from fire area if possible. Use a recommended extinguishing agent for the type of surrounding fire. Avoid inhaling hazardous vapours and fumes from burning materials.

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

and full turnout gear. Use an approved/certified respirator or equivalent.

Contain fire control agents for later disposal according to Section 13.

Water can be used to cool unaffected containers.

## SECTION 6. ACCIDENTAL RELEASE

### Personal precautions, protective equipment, and emergency procedures:

**For non-emergency personnel:** Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures

**For emergency responders:** Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent. Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel.

### Environmental precautions:

Stop leak if without risk. Do not touch spilled material. Prevent entry into drains, watercourses, or confined areas; dike if needed. If the product contaminates public water, inform appropriate authorities immediately in accordance with local regulations. Dispose in a safe manner in accordance with local/national regulations.

### Methods for containment and cleaning up:

**Methods and Materials for Containment:** Contain spilled product by diking area with sand or earth.

**Methods and Materials for Clean-up:** Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container.

Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spill material. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools, and equipment, wash with water and suitable detergent.

### Reference to other sections:

See section 1 for information on emergency contact details

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

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## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling:

May be harmful if swallowed. Avoid contact with skin and eyes. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

**Protective measures:** Observe directions on label and instructions for use.

**Advice on general occupational hygiene:** Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet . Worker should shower at the end of each workday. Wash all clothing before it is re-used.

### Conditions for safe storage, including incompatibilities:

Store locked up in the closed original packaging out of reach of children, unauthorised persons, and animals. Store in a dry, cool, well-ventilated area. Keep away from food, drink and animal feed. Avoid cross contamination with other pesticides and fertilisers.

### Specific end uses:

Use as directed. Use original container.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters:

**Occupational exposure limits (OEL):** No information available.

**Biological exposure indices (BEI):** No information available.

**Additional exposure limits under the conditions of use:** No information available

### Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

**Appropriate engineering controls:** Provide adequate ventilation, exhaust ventilation or other engineering controls to maintain airborne concentrations below OELs or other specified exposure limits.

Ensure that eyewash stations and safety showers are proximal to the work-station location. Comply with occupational safety, environmental, fire and other applicable regulations.

### Personal Protective Equipment

**Eye/face protection:** Wear chemical goggles or face shield when mixing or applying product.

**Hand protection:** Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

**Body protection:** Wear appropriate chemical resistant overalls and rubber boots and rubber gloves. Avoid any skin exposure.

**Respiratory protection:** Use a NIOSH approved, air purifying respirator with cartridges / canisters approved for organic vapours.

**Emergency eyewash:** Where there is any possibility that an employee’s eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

**Environmental exposure controls:** Prevent product from entry into sewers and water courses.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Liquid
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Colour	Pale brown
Odour	Perceptible odour
Odour threshold	No data available
pH	1.2 ± 0.1 in 5 % aqueous solution and 0.62 ± 0.1 in 100 % aqueous solution.
Melting point / freezing point (°C)	No data available
Boiling point (°C)	No data available
Flash point (°C)	No data available
Evaporation rate	No data available
Flammability	Non-flammable
Upper /lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density (25°C)	1.245 g/mℓ at 25 °C.
Water solubility (g/l) at 20°C	Readily soluble in water.
Partition coefficient : n-octanol/water	No data available
Auto-ignition temperature (°C)	No data available
Decomposition temperature (°C)	No data available
Viscosity, dynamic (mPa s)	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

**SECTION 10. STABILITY AND REACTIVITY**

**Reactivity:** None known

**Chemical stability:** The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight. Product is UV irradiation sensitive

**Possibility of hazardous reactions:** Unlikely to occur

**Conditions to avoid:** : Extreme heat or exposure to flames.

**Incompatible materials:** Strong oxidizers, strong bases, strong reducing agents.

**Hazardous decomposition products:** Ethylene gas is released with decomposition. Thermal decomposition products may be hazardous and may include oxides of carbon, oxides of phosphorous and hydrogen chloride.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Toxicokinetics, metabolism and distribution:** No data available

**Information on toxicological effects:**

**Assessment of acute toxicity:**

The product has not been tested. The data reported is for the main ingredients in the mixture.

<b>Ethephon CAS No. 16672-87-0</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat - male)	500 mg/kg
Acute Dermal LD50 (rat):	300 mg/kg
Acute Inhalation LC50 - 4 h (rat)	1.5 mg/l air
Skin irritation/ corrosion (rabbits)	Skin irritant
Eye damage / irritation (rabbits)	Corrosive – causes eye damage
Respiratory or skin sensitization (Guinea Pig)	Non sensitising
Germ cell mutagenicity	No data available

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Carcinogenicity	No adverse effect observed
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

**Additional information:**

**Potential Adverse Effects:**

Inhalation: Harmful. Overexposure may cause respiratory tract irritation and may result in dyspnea, pleuritic chest pain, pulmonary edema, hypoxemia, bronchospasm, pneumonitis, tracheobronchitis and persistent pulmonary function abnormalities. Ingestion: Product is harmful if swallowed. May cause burns to mouth, throat, oesophagus, and stomach. Perforations are rare but may occur.

Other information: Ethephon is a weak to moderate cholinesterase inhibitor. Repeated minor exposure may have a cumulative poisoning effect.

<b>Phosphonic Acid CAS No: 13598-36-2</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat – male and female)	1560mg/kg
Acute Dermal LD50 (rabbit):	No data available
Acute Inhalation LC50 - 6 h (rat)	No data available
Skin irritation/ corrosion (rabbits)	Corrosive
Eye damage / irritation (rabbits)	Causes serious eye damage.
Respiratory or skin sensitization (Guinea pig)	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

**Additional Information:**

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

<b>Phosphoric Acid CAS No:7664-38-2</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat - male)	1250 mg/kg (Calculation method)
Acute Dermal LD50 (rabbit):	No data available
Acute Inhalation LC50 - 6 h (rat)	No data available
Skin irritation/ corrosion (rabbits)	Causes burns
Eye damage / irritation (rabbits)	Causes serious eye damage.
Respiratory or skin sensitization (Guinea pig)	No data available
Carcinogenicity	No data available

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<p>Mutagenicity</p> <p>Test Type: Ames test</p> <p>Test system: Escherichia coli/Salmonella typhimurium</p> <p>Result: negative</p> <p>Test Type: Mutagenicity (mammal cell test): chromosome aberration.</p> <p>Test system: Human lymphocytes</p> <p>Result: negative</p> <p>Test Type: In vitro mammalian cell gene mutation test</p> <p>Test system: mouse lymphoma cells</p> <p>Result: negative</p>	
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

**Additional Information:**

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12. ECOLOGICAL INFORMATION

<b>Ethephon CAS No. 16672-87-0</b>	
<b>Toxicity</b>	
Birds Acute oral LD <sub>50</sub>	1425 mg/kg Mallard ducks; 764 mg/kg Bobwhite quail; 1636mg/kg Canaries
Dietary LC <sub>50</sub> (5D)	>5000 mg/kg Bobwhite
Aquatic Toxicity Fish LC <sub>50</sub> (96 hr)	>102 mg/l (Sheepshead minnow); >100 mg/l (carp); 519mg/l (rainbow trout)
Aquatic Toxicity Daphnia EC <sub>50</sub> (48 hr)	>90.4 mg/l
Algae Toxicity EC <sub>50</sub> (96h)	>1.4 mg/l (Selenastrum capricornutum)
Bee Toxicity LD <sub>50</sub>	>100 µg/bee(contact); >117 µg/bee(oral);
<b>Persistence and degradability</b>	In plants, ethephon rapidly undergoes degradation to ethylene. Rapidly degraded in soil, and low mobility, unlikely to leach.
<b>Bioaccumulation potential</b>	Not determined
<b>Mobility in soil</b>	Not determined

<b>Phosphonic Acid CAS No: 13598-36-2</b>	
<b>Toxicity</b>	
Aquatic Toxicity Fish LC <sub>50</sub> (96 hr)	>100 mg/l Cyprinus carpio (Carp) >1000 mg/l Daphnia magna (Water flea)
Aquatic Toxicity Daphnia EC <sub>50</sub> (48 hr)	153 mg/l Pseudokirchneriella subcapitata (green algae)
Algae Toxicity EC <sub>50</sub> (96h)	>100 µg/bee(contact); >117 µg/bee(oral);
Bee Toxicity LD <sub>50</sub>	
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation potential</b>	No data available
<b>Mobility in soil</b>	No data available

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<b>Phosphoric Acid CAS No:7664-38-2</b>	
<b>Toxicity</b>	
Aquatic Toxicity Fish LC <sub>50</sub> (96 hr)	No data available
Aquatic Toxicity Daphnia EC <sub>50</sub> (48 hr)	No data available
Algae Toxicity EC <sub>50</sub> (96h)	No data available
Bee Toxicity LD <sub>50</sub>	No data available
<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulation potential</b>	No data available
<b>Mobility in soil</b>	No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods:

#### Product:

Keep out of drains, sewers, ditches, and waterways. Refer to container label for disposal information. Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

#### Container:

**TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler. Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages. Follow all local/ regional/ national/ international regulations.

## SECTION 14. TRANSPORT INFORMATION

UN Number	3265
UN proper shipping name	Corrosive Liquid; Acidic; Organic; N.O.S. (Ethephon 480
Transport hazard class	8
Packaging group	III
Marine pollutant	Yes

## SECTION 15. REGULATORY INFORMATION

### Safety, health, and environmental regulations/legislation for the mixture:

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021.UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

### Relevant information regarding restrictions:

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP]

### Other National regulations:

National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

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National Environmental Management Waste Act 59 of 2008.

Act 36 of 1947 of the Republic of South Africa. This product is registered under it is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions

**Chemical Safety Assessment carried out? No**

## SECTION 16. OTHER INFORMATION

### Indication of changes:

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

GHS aligned – all sections

### Relevant H statements (number and full text):

H304-May be fatal if swallowed and enters airways

H335-May cause respiratory irritation

H225-Highly flammable liquid and vapour

H315-Causes skin irritation

H318-Causes serious eye damage

H319-Causes serious eye irritation

H290-May be corrosive to metals

### Training instructions:

Use as indicated on the label, special training may be required for application.

### Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.