


## SAFETY DATA SHEET

Prepared on Commission Regulation (EU) no. 453/2010

| 1. Identification of the substance/mixture and of the company/undertaking |   |                                   |   |
|---|---|-----------------------------------|---|
| <b>Product/substance name</b>   | <b>ACTIPRON SUPER</b>   |                                   | <b>Revision Date:</b> 16/04/2024<br><b>Publish Date:</b> 16/04/2024 |
| <b>Product/substance name</b><br>Self-emulsifying crop protection oil.    | <b>CAS Number</b><br>64742-65-0   | <b>EINECS Number</b><br>265-169-7 | <b>Index Number</b><br>-  |
| <b>Supplier</b>   | Ecoguard Biosciences (Pty) Ltd<br>Johannesburg<br>Epsom Downs Office Park<br>13 Sloane Street,<br>Bryanston<br>2194<br><br>EMERGENCY CONTACT Tel: (+27) 11 463 6057 |                                   |   |
| <b>Regd. Office:</b>  | Ecoguard Biosciences (Pty) Ltd<br>Johannesburg<br>Epsom Downs Office Park<br>13 Sloane Street,<br>Bryanston<br>2194<br><br>EMERGENCY CONTACT Tel: (+27) 11 463 6057 |                                   |   |
| <b>Emergency telephone number</b>   | Transport accident: 086 100 0366<br>Treatment for poisoning cases: 082 446 8946   |                                   |   |

| 2. Hazards identification   |  |
|---|--|
| <b><u>Classification of the substance or mixture</u></b><br><br>Serious eye damage/eye irritation      Category 2: H319<br><br><b><u>Label Elements</u></b><br><br>Hazard pictograms<br><br><br><br>Signal word <b>WARNING</b> |  |

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|                                 |  |
|---------------------------------|--|
| <b>Hazard statements</b>        | H319 - Causes serious eye irritation.  |
| <b>Precautionary statements</b> | <p>Read the label carefully and follow all instructions.</p> <p>Keep out of reach of children and animals.</p> <p>P280 - Wear protective gloves and face shield.</p> <p>P264+P265 - Wash hands and face thoroughly after handling.</p> <p>Do not touch eyes when handling.</p> <p>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P317 - If eye irritation persists: Get medical help.</p> |
| <b>Supplemental information</b> | This material should be handled in accordance with good industrial hygiene and safety practices.   |

### 3. Composition/information on ingredients

#### Mixtures:

| Chemical name   | CAS-No.    | Weight% | EINECS No. | GHS Classification                           |      |
|---|------------|---------|------------|--|------|
| Distillate, (petroleum) solvent-dewaxed, heavy paraffinic | 64742-65-0 | >95     | 265-169-7  | Not classified as hazardous according to GHS |      |
| Alkoxylated alcohol                                       | -          | <5      | -          | Skin Irrit. 2                                | H315 |
|   |            |         |            | Eye Dam. 1                                   | H318 |
|   |            |         |            | Aq. Tox. 1                                   | H400 |
|   |            |         |            | Aq. Chronic 3                                | H412 |

Oil - IP 346 DMSO extract < 3% (therefore not classified as carcinogenic in terms of GHS)

### 4. First aid measures

#### General advice

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.      |
| <b>Skin contact</b> | Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.                    |
| <b>Ingestion</b>    | If contamination of the mouth occurs, wash out thoroughly with water. Do not induce vomiting.   |
| <b>Inhalation</b>   | If inhalation of mists, fumes, or vapor causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice. |

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**Medical Advice**

Treatment should in general be symptomatic and directed to relieving any effects.

## 5. Firefighting measures

### Extinguishing media

#### **Suitable extinguishing media**

Use foam, dry powder or water fog. DO NOT USE water jets. Water may be used to cool nearby heat exposed areas/objects/packages. Avoid spraying directly into storage containers because of the danger of boil-over.

#### **Special hazards arising from the substance or mixture:**

Toxic fumes may be evolved on burning or exposure to heat. See Stability and Reactivity, Section 10 of this Safety Data Sheet.

### Advice for firefighters

Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus. Wear suitable respiratory equipment when necessary.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | Safety glasses, chemical goggles or a face shield (if splashing possible).  |
| <b>Environmental precautions</b> | Avoid runoff to sewers or waterways. Dike area of spill to prevent spreading and pump liquid to salvage tank. Waste: avoid washing into watercourses. Use methods consistent with local regulation or incinerate. |

#### **Methods and materials for containment and cleaning up**

Dike to contain spill. Absorb on inert material such as sand, earth, vermiculite. Stop the leak if it can be done without risk. Wipe out the material completely and treat as industrial waste.

See Section 13, Disposal Considerations, for additional information.

## 7. Handling and storage

### Precautions for safe handling

#### **Advice on safe handling**

Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate.  
 Avoid frequent or prolonged skin contact.  
 Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times.  
 Wash hands thoroughly with soap and water after contact.  
 Do not eat drink or smoke while mixing or spraying or before washing hands and face.  
 Use disposable cloths and discard when soiled. Do not put soiled cloths into pockets.  
 If there is a risk of exposure to high vapour concentrations respiratory protection/breathing apparatus should be worn.

#### **Storage**

Store in a cool, dry, ventilated and covered area away from sources of heat, ignition and sunlight.  
 Keep container tightly closed when not in use.  
 In case of product becoming opaque, thickening or being frozen due to the effects of cold, it can at room temperature be slowly allowed to thaw out and after a short stirring time is once again ready for use.

## 8. Exposure controls/personal protection

### National occupational exposure limits

There is no appropriate occupational exposure limit for this material. Avoid as far as reasonably practicable inhalation of vapour mists or fumes generated during use.

Local ventilation is needed if used in a manner that generates an airborne mist.

If vapour and/or mist is generated by heating, spraying, etc. wear an organic vapour respirator with a mist filter. No special respiratory protection is normally required.

### Personal protective equipment

**General protective measures**      Avoid contact with eyes and skin.

**Eye/face protection**              Wear safety glasses or goggles.

**Hand Protection**                  Chemical resistant gloves (PVC).

**Skin Protection**

Wear chemical protective clothing.

**General Hygiene Considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Clean skin thoroughly after work; apply skin cream

**9. Physical and chemical properties****Typical Values****ACTIPRON SUPER****Test Method****Units**

|   |             |                    |  |
|---|-------------|--------------------|--|
| Physical state at 20°C                  |             | 101.3 KPa          | liquid   |
| Colour                                  | D1500       |                    | L 0.5 Amber  |
| Odour                                   |             |                    | Oily   |
| Boiling point                           |             | °C                 | >280   |
| Flammability                            |             |                    | Not applicable   |
| Flash point (PMCC)                      | ASTM D 92   | °C                 | 218  |
| Auto-ignition temperature               |             |                    | No information available   |
| Decomposition temperature               |             |                    | No information available   |
| pH                                      |             |                    | Not applicable   |
| Density @ 20°C                          | ASTM D 1298 | kg/m <sup>3</sup>  | 870  |
| Kinematic viscosity @ 40°C              | ASTM D 445  | mm <sup>2</sup> /s | 30   |
| Kinematic viscosity @ 100°C             | ASTM D 445  | mm <sup>2</sup> /s | 5.2  |
| Melting point / Pour point              | ASTM D 566  | °C                 | -6   |
| Solubility in water at 20 °C            |             | mg/L               | 0.01 (practically insoluble)   |
| Solubility in organic solvents at 20 °C |             | mg/L               | Soluble in benzene, carbon disulfide, chloroform, ether and naphtha. |
| Partition coefficient                   |             |                    | Not determined   |
| Vapour pressure at 20 °C                |             | mPa                | < 0.5  |
| Polycyclic aromatic hydrocarbons IP 346 |             | %                  | DMSO extract 0.3   |

**10. Stability and reactivity****Reactivity**

No dangerous reaction known under conditions of normal use.

**Chemical stability**

Products of this type are stable and unlikely to react in a hazardous manner under normal conditions of use.

**Possibility of Hazardous Reactions****Hazardous polymerization**

Thermal decomposition products will vary with conditions. Hazardous polymerization reactions will not occur.

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|   |   |
|---|---|
|   | This material is combustible.               |
| <b>Conditions to avoid</b>              | Avoid contact with strong oxidizing agents. |
| <b>Incompatible materials</b>           | None  |
| <b>Hazardous decomposition products</b> | None  |

## 11. Toxicological information

### Acute toxicity of ingredients:

| Ingredient name: | Result:         | Species: | Dose:       | Exposure: |
|------------------|-----------------|----------|-------------|-----------|
| Distillates      | LD50 oral       | Rat      | >5000 mg/kg | 4 h       |
| (petroleum),     | LD50 dermal     | Rabbit   | >2000 mg/kg |           |
| solvent dewaxed, | LD50 Inhalation | Rat      | >5.3 mg/ℓ   |           |
| heavy            | mists           |          |             |           |
| paraffinic       |                 |          |             |           |

Eyes May cause transient eye irritation.

Skin Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.

Ingestion Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.

Inhalation At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility.  
May cause irritation to eyes, nose and throat due to exposure to vapour, mists or fumes.  
May be harmful by inhalation if exposure to vapour, mists

### GHS Classification of ACTIPRON SUPER:

#### Acute toxicity:

Based on available data, it does not meet the classification criteria.

#### Skin corrosion/irritation:

Based on available data, it does not meet the classification criteria

#### Serious eye damage/irritation:

Based on available date, it does not meet the classification criteria.

**Respiratory or skin sensitization:**

Based on available data, it does not meet the classification criteria.

**Germ cell mutagenicity:**

Based on available data, it does not meet the classification criteria.

**Carcinogenicity:**

The classification as a carcinogen does not apply as **ACTIPRON SUPER** contains less than 3 % DMSO extract as measured by IP346. (Determination of polycyclic aromatics in unused lubricating oil).

**Reproductive toxicity:**

Based on available data, it does not meet the classification criteria.

**STOT-single exposure:**

Based on available data, it does not meet the classification criteria.

**STOT-repeated exposure:**

Based on available data, it does not meet the classification criteria.

**Aspiration hazard:**

The kinematic viscosity of > 90 % of the mixture, measured at 40 °C, is > 20.5 mm<sup>2</sup>/s therefore it does not meet the classification criteria.

## 12. Ecological information

**Acute Aquatic Toxicity:****Distillates (petroleum) solvent refined, heavy paraffinic CAS N. 64742-65-0**

NOEL: ≥ 100 mg/ℓ acute toxicity test on fresh-water fish; *Pimephales promelas*, 96 h.

NOEL: ≥ 10000 mg/ℓ acute toxicity test on fresh-water invertebrate; *Daphnia magna*, 48 h.

NOEL: ≥ 100 mg/ℓ acute toxicity test on fresh-water algae; *Pseudokurchinella subcapitata*, 72 h.

Based on available data, **ACTIPRON SUPER** does not meet the criteria for classification as an acute aquatic hazard.

However, spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

**Chronic Aquatic Toxicity:**

Based on available data, **ACTIPRON SUPER** does not meet the criteria for classification as a chronic aquatic hazard.

**Toxicity to Birds:** Mineral oils have a low oral toxicity for birds and are therefore considered to be virtually nontoxic via this route. LD50: >2250 mg/kg bw Bobwhite quail.

**Toxicity to earthworms:** Annelid worms LC50 750 mg/kg.

**Toxicity to bees:** LC50 (ug/bee) >100 (not acutely toxic).

### Persistence, Bioaccumulation, Biodegradability and Mobility in the Environment

|                                      |   |
|--------------------------------------|---|
| <b>Persistence and degradability</b> | Oil is inherently biodegradable but moderately persistent DT50 (typical) 65 d <sup>3</sup> .  |
| <b>Bioaccumulative potential</b>     | Metabolism studies show that petroleum oils do not get absorbed and accumulate. The majority of an oral dose of mineral hydrocarbon is excreted unchanged in the faeces. The hazard for bioaccumulation is therefore rated as low <sup>1</sup> .  |
| <b>Mobility in soil</b>              | The high Koc value, indicates a high degree of sorption to the organic matter in soils, as well as to foliar surfaces onto which it is sprayed <sup>2</sup> . Therefore, it is essentially non-mobile in the soil <sup>1</sup> . The porosity of soils may be affected. which could reduce soil aeration and water infiltration   |
| <b>Mobility in water</b>             | Mineral oils do not contain functional groups that are susceptible to hydrolysis in aqueous suspensions or to photodegradation in the ultraviolet or visible light ranges <sup>2</sup> .<br>Spills form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.<br>The overall hazard for these oils to move off the site of application with rain or irrigation water is rated low <sup>1</sup> . However, spillages may penetrate the soil causing ground water contamination. |

### 13. Disposal considerations

#### Unused Product:

Improper disposal of excess product, spray mixture or rinsate must be avoided. Ideally small amounts of the product that are still in a usable condition should be disposed of by using for its intended purpose or where possible, arrange for unused product to be recycled. For disposal of large amounts use an authorized person / licensed waste disposal contractor in accordance with national and local regulations. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems.

Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

#### Packaging

Only empty, triple rinsed and punctured \*plastic, pesticide packaging may be transported and recycled. Puncture the triple rinsed container to render it unusable and dispose of it through an approved collector or recycler ([www.croplife.co.za](http://www.croplife.co.za)).

Metal drums should be completely emptied and stored appropriately until they can be reconditioned, recycled or disposed of through a licensed contractor.

· It is a criminal offense to bury or burn nominally empty or contaminated packaging on the farm. Comply with all national and local regulations pertaining to waste disposal.

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- **DO NOT** donate the container to any other party as they may use it as a container for food or beverages.
- **DO NOT** use the empty container for any other purpose

#### 14. Transport information

Not classified as hazardous for transport (ADR, RID, UN, IMO, IATA/ICAO).

Dangerous Goods Regulations not applicable.

UN No.: Not regulated.

UN Proper Shipping Name: Not assigned

Transport Hazard Classes: Not assigned

Packing Group: Not assigned

Environmental Hazard: No

#### 15. Regulatory information

**Not classified as hazardous for supply.**

National legislation:

- Regulations For Hazardous Chemical Agents, 2021 as Amended by Notice R 11266 in GG 44366 of 31 March 2021 Republic Of South Africa.
- Occupational Health and Safety Act (Act No. 85 of 1993) as amended.
- Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act (Act No. 36 of 1947) as amended. Registration No. L6802 Department of Agriculture, Land Reform and Rural Development.

#### 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

##### Abbreviations and acronyms:

|                 |  |
|-----------------|--|
| <b>ADR:</b>     | Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)                  |
| <b>RID:</b>     | Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) |
| <b>IMDG:</b>    | International Maritime Code for Dangerous Goods  |
| <b>IATA:</b>    | International Air Transport Association (IATA)   |
| <b>ICAO:</b>    | International Civil Aviation Organization  |
| <b>ICAO-TI:</b> | Technical Instructions by the "International Civil Aviation Organization"  |

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|                |  |
|----------------|--|
|                | (ICAO)   |
| <b>GHS:</b>    | Globally Harmonized System of Classification and Labelling of Chemicals  |
| <b>EINECS:</b> | European Inventory of Existing Commercial Chemical Substances  |
| <b>CAS:</b>    | Chemical Abstracts Service (division of the American Chemical Society)   |
| <b>LC50:</b>   | Lethal concentration, 50 percent   |
| <b>LD50:</b>   | Lethal dose, 50 percent  |
| <b>DT50:</b>   | a measure of the time it takes for 50 % of the parent compound to disappear from soil or water by transformation i.e. its half-life.                 |
| <b>IP346:</b>  | Determination of polycyclic aromatics in unused lubricating base oil.  |
| <b>Koc:</b>    | A measure of the tendency of a chemical to bind to soils, corrected for soil organic carbon content.   |
| <b>NOEL:</b>   | (no observable effect level) is the highest dose or exposure level of a substance or material that produces no noticeable (observable) toxic effect. |

**References:**

1. European Chemicals Agency (ECHA): Harmonized classification: Distillates (petroleum), solvent dewaxed, heavy paraffinic; CAS No. 64724-65-0.
2. Pesticide Properties Database University of Hertfordshire (PPDB).
3. Revised Reregistration Eligibility Decision (RED) for Aliphatic Solvents 2007.
4. Other Safety Data Sheets for CAS. No. 64742-65-0

This Safety Data Sheet (SDS) complies with basic South African and EU regulatory requirements for SDS on the date of publication and is intended for translation and adaptation into European National documents. This document should NOT be relied upon for compliance with the laws and regulations of individual countries without the appropriate local translations and adaptations. It is your responsibility to ensure that any SDS taken or adapted from this system for re-distribution or use complies with all the laws and regulations which apply to any such use or re-distribution.