

## Section 1 - Identification of The Material and Supplier

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**Chemical nature:** Organic silicone surfactant.

**Trade Name:** **ECOTHOR ACTIVE NATURE® EXONET  
Natural Insecticide**

**Product Use:** Natural insecticide for use as per the product label.

**Creation Date:** **February, 2025**

**This version issued:** **February, 2025** and is valid for 5 years from this date.

## Section 2 - Hazards Identification

### Statement of Hazardous Nature

**SUSMP Classification:** None allocated.

**ADG Classification:** Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500 kg(L) or less; or IBCs (refer to SP AU01).

**IATA/IMDG/ADR/RID Classification:** Where net quantity per single or inner packaging is 5 L or less for liquids or 5 kg or less for solids, goods may be transported as non-dangerous goods as provided in special provision A197 of the IATA regulations, the special provision 375 of the ADR/RID and section 2.10.2.7 of IMDG code. This product is always packed at 5 L or less.

See details in Section 14 of this SDS.

**UN Number:** 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

### GHS Classification:

Acute toxicity - Inhalation: Category 4

Eye irritation: Category 2

Hazardous to aquatic environment, long-term hazard: Category 2



### GHS Signal word: **WARNING**

#### HAZARD STATEMENT:

H332: Harmful if inhaled.

H319: Causes serious eye irritation

H411: Toxic to aquatic life with long lasting effects.

#### PREVENTION

P102: Keep out of reach of children.

P261: Avoid breathing mist/vapours/spray.

P264: Wash contacted areas thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves / eye protection.

#### RESPONSE

P312: Call a POISON CENTER or doctor if you feel unwell.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice.

P391: Collect spillage.

#### STORAGE

#### DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

## SAFETY DATA SHEET

**Emergency Overview****Physical Description & Colour:** Liquid.**Odour:** Faint, characteristic odour.**Major Health Hazards:** Irritating in contact with eyes.**Carcinogen Status:****SWA:** No significant ingredient is classified as carcinogenic by SWA.**NTP:** No significant ingredient is classified as carcinogenic by NTP.**IARC:** No significant ingredient is classified as carcinogenic by IARC.**Section 3 - Composition/Information on Ingredients**

| Ingredients                                       | CAS No     | Conc., % | TWA (mg/m <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) |
|---------------------------------------------------|------------|----------|--------------------------|---------------------------|
| Polyalkyleneoxide modified heptamethyltrisiloxane | 67674-67-3 | 80 - 99  | not set                  | not set                   |
| Other non-hazardous ingredients                   |            | to 100   | not set                  | not set                   |

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5-day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

**Section 4 – First Aid Measures****General Information:**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

**Inhalation:** If symptoms of poisoning become evident, contact a Poisons Information Centre, or call a doctor at once. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice.

**Skin Contact:** Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.

**Eye Contact:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If swallowed, do NOT induce vomiting. Rinse mouth with plenty of water and contact a Poisons Information Centre or call a doctor. If occurs, keep victim's head low to avoid getting the product into respiratory tract.

**Section 5 – Fire Fighting Measures**

**Fire and Explosion Hazards:** The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

This product is likely to decompose only after heating to dryness, followed by further strong heating.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

**Extinguishing Media:** In case of small fires use foam, snow or powder extinguisher. For large fires use foam or water mist.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade.

**Flash point:** > 100 °C.

**Upper Flammability Limit:** Not applicable.

**Lower Flammability Limit:** Not applicable.

**Autoignition temperature:** No data.

**Flammability Class:** Not applicable.

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## Section 6 – Accidental Release Measures

**Accidental release:** In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the clean-up area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Otherwise, not normally necessary.

Stop leak if safe to do so and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

## Section 7 – Handling and Storage

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under “Storage” should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Make sure that containers of this product are kept tightly closed. Make sure that the product does not come into contact with substances listed under “Incompatibilities” in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging – there may be further storage instructions on the label. Store at temperatures of 0 to 35 °C. Avoid water and humidity during storage.

## Section 8 – Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

### SWA Exposure Limits

### TWA (mg/m<sup>3</sup>)

### STEL (mg/m<sup>3</sup>)

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** This product should be used in a well-ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

**Eye Protection:** Eye protection such as protective glasses or goggles is recommended when this product is being used.

**Skin Protection:** No special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves and protective clothing when skin contact is likely.

**Protective Material Types:** We suggest that protective clothing be made from the following materials: rubber, PVC.

**Respirator:** Usually, no respirator is necessary when using this product. If there is a significant chance that high concentrations of vapours are likely to build up in the area, we recommend that you use a half mask with SA type filter. However, if you have any doubts consult the Australian Standard mentioned above. Otherwise, not normally necessary.

## SAFETY DATA SHEET

**Section 9 – Physical and Chemical Properties:**

|                                           |                              |
|-------------------------------------------|------------------------------|
| <b>Physical Description &amp; colour:</b> | Liquid.                      |
| <b>Odour:</b>                             | Faint, characteristic odour. |
| <b>Boiling Point:</b>                     | No data.                     |
| <b>Freezing/Melting Point:</b>            | No data.                     |
| <b>Volatiles:</b>                         | No data.                     |
| <b>Vapour Pressure:</b>                   | No data.                     |
| <b>Vapour Density:</b>                    | No data.                     |
| <b>Specific Gravity:</b>                  | 1.0 approx.                  |
| <b>Water Solubility:</b>                  | insoluble, emulsifies.       |
| <b>pH:</b>                                | No data.                     |

**Section 10 – Stability and Reactivity**

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf-life properties.

**Conditions to Avoid:** Protect this product from high temperature, humidity. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

**Incompatibilities:** No data.

**Fire Decomposition:** This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form carbon oxides, silica oxides, formaldehyde. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**Polymerisation:** This product will not undergo polymerisation reactions.

**Section 11 – Toxicological Information**

**Toxicity:** The acute oral and dermal LD<sub>50</sub> of product is greater than 5,000 mg/kg of body weight in rats. It classified as harmful if inhaled and severely irritating to the eye. It is not a skin contact sensitizer. Product does not contain any compounds with germ cell mutagenicity or carcinogenic or reprotoxic hazard. Based on available data, the classification criteria of STOT-SE, STOT-RE and aspiration hazard are not met.

**Classification of Hazardous Ingredients**

| Ingredient                                                                                           | Risk Phrases |
|------------------------------------------------------------------------------------------------------|--------------|
| No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations. |              |

**Section 12 – Ecological Information**

This product is toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.

**Ecotoxicity:** Information on product compound (polymeric silica compounds):

Fish: Rainbow trout (*Oncorhynchus mykiss*): LC<sub>50</sub> (96 h) 4.5 mg/L, NOEC (96 h) 3.2 mg/L

Aquatic invertebrates: Daphnia (*Daphnia magna*): EC<sub>50</sub> (48 h) 24 mg/L, NOEC (48 h) 5.6 mg/L

**Persistence and degradability:** Siloxanes are removed from water by sedimentation and adsorption onto sludge. In soil siloxanes undergo degradation.

**Bioaccumulative potential:** No data.

**Mobility in soil:** No data.

**Other adverse effects:** No data.

**Section 13 – Disposal Considerations**

**Disposal:** Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.

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**Section 14 - Transport Information**

UN number: 3082  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Polyalkyleneoxide modified heptamethyltrisiloxane contained)  
Transport class: 9  
Packing group: III  
Environmentally hazardous: Yes

According to AU01 of Australian Special Provision, Environmentally Hazardous Substance meeting the descriptions of UN3082 is not subject to this Code (ADG 07) when transported by road and rail in;

- a) packaging that do not incorporate a receptacle exceeding 500 kg(L); or
- b) IBCs

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA special provision A197, and ADR/RID special provision 375.

This material is not a hazardous material as defined by the U.S. Department of Transportation 49 CFR Parts 100 through 185, unless shipped in bulk packaging. This classification pertains only to the shipment in bulk packaging [( >119 gal, liquid) or (882 lb, solid)].

**Section 15 - Regulatory Information**

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations.

**Section 16 - Other Information**

**This SDS contains only safety-related information. For other data see product literature.**

If there is any conflict between this SDS and the registered label, instructions on the label prevail.

**Acronyms:**

|                     |                                                                                                                     |
|---------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>ADG Code</b>     | Australian Code for the Transport of Dangerous Goods by Road and Rail (7 <sup>th</sup> edition)                     |
| <b>AICS</b>         | Australian Inventory of Chemical Substances                                                                         |
| <b>SWA</b>          | Safe Work Australia, formerly ASCC and NOHSC                                                                        |
| <b>CAS number</b>   | Chemical Abstracts Service Registry Number                                                                          |
| <b>Hazchem Code</b> | Emergency action code of numbers and letters that provide information to emergency services especially firefighters |
| <b>IARC</b>         | International Agency for Research on Cancer                                                                         |
| <b>NOS</b>          | Not otherwise specified                                                                                             |
| <b>NTP</b>          | National Toxicology Program (USA)                                                                                   |
| <b>R-Phrase</b>     | Risk Phrase                                                                                                         |
| <b>SUSMP</b>        | Standard for the Uniform Scheduling of Medicines & Poisons                                                          |
| <b>UN Number</b>    | United Nations Number                                                                                               |

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)

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**SAFETY DATA SHEET**

Issued by: Ensysstex Australasia Pty Ltd

Phone: 13 35 36 (ALL HOURS)

Poisons Information Centre: 13 1126 from anywhere in Australia