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| Infosafe No™ 3NU8B | Issue Date : August 2021 | ISSUED by NUFARM |
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 Product Name **SYNERGY Insecticide Synergist**

Classified as hazardous

1. Identification

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| GHS Product Identifier | SYNERGY Insecticide Synergist |
| Product Code | 3318 |
| Company Name | NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780) |
| Address | 103-105 Pipe Road Laverton North Victoria 3026 Australia |
| Telephone/Fax Number | Tel: +61 3 9282-1000 |
| Emergency phone number | 1800 033 498 (24hr Australia) |
| E-mail Address | SDSANZ@nufarm.com |
| Recommended use of the chemical and restrictions on use | For use as a synergist when applying synthetic pyrethroid insecticides in cotton, and in a tank mixture with Astral 250EC Insecticide/Miticide for the control of silverleaf whitefly, sweet potato whitefly and corn earworm in cucurbits and tomatoes. See the Directions for Use table on the label. |
| Other Information | This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application. |

2. Hazard Identification

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| GHS classification of the substance/mixture | SS-1 Sensitization - Skin: Category 1 ED2A Eye Damage/Irritation: Category 2A FL4 Flammable Liquids: Category 4 AC1 Hazardous to the aquatic environment, long-term (Chronic): Category Chronic 1 |
| Signal Word (s) | WARNING |
| Hazard Statement (s) | H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. AUH066 Repeated exposure may cause skin dryness or cracking H227 Combustible liquid H410 Very toxic to aquatic life with long lasting effects |
| Precautionary statement – General | P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use. |
| Pictogram (s) | Exclamation mark, Environment |



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| Precautionary statement – Prevention | P261 Avoid breathing vapours and spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves, clothing, eye and face protection. P264 Wash hands and exposed skin thoroughly after handling. P273 Avoid release to the environment. |
| Precautionary statement – Response | P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse. 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/attention. P391 Collect spillage. |
| Other Information | Poisons Schedule : Not Scheduled |

3. Composition/information on ingredients

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| Ingredients | <u>Name</u> | <u>CAS</u> | <u>Proportion</u> |
|-------------|--|------------|-------------------|
| | Piperonyl butoxide | 51-03-6 | 800 g/L |
| | Other ingredients (considered non-hazardous) | | 0-10 % |
| | Octabenzone | 1843-05-6 | 0-10 % |

4. First-aid measures

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| Inhalation | Not a likely route of exposure. Remove affected person to fresh air until recovered. |
| Ingestion | Rinse mouth thoroughly with water. Give a glass of water. If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient. |
| Skin | Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water. If irritation persists, seek medical advice. |
| Eye contact | If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice if irritation develops or persists. |
| First Aid Facilities | If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26. |
| Advice to Doctor | Treat symptomatically. If vomiting occurs, solvent and surfactants present may cause pulmonary pneumonitis. If large amounts of material have been swallowed, remove by gastric lavage. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water fog, foam, carbon dioxide or dry chemical. |
| Hazards from Combustion Products | Although material is not flammable, the concentrate is combustible. |
| Special Protective Equipment for fire fighters | Breathable air apparatus must be worn if material is involved in fires especially in confined spaces. |
| Hazchem Code | 3Z |
| Other Information | STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES. |

6. Accidental release measures

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| Spills & Disposal | Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal. Dispose of at a landfill in accordance with local regulations. |
| Clean-up Methods - Large Spillages | Place damaged containers in recovery bins (if available) and return to manufacturer. |
| Environmental Precautions | Prevent from entering drains, waterways or sewers. |

7. Handling and storage

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| Conditions for safe storage, including any incompatibilities | Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. |
| Other Information | Always read the label and any attached leaflet before use. |

8. Exposure controls/personal protection

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| Occupational exposure limit values | No biological exposure limit allocated. No exposure standards have been set for this product. The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m ³ ; 17ppm TWA, as total hydrocarbon. The manufacturer has recommended the following exposure standard for octabenzene: TLV (TWA) 1 mg/m ³ , STEL - mg/m ³ . |
| Appropriate engineering controls | Handle in well ventilated areas, generally natural ventilation is adequate. |
| Personal Protective Equipment | It is good practice to wear suitable personal protective equipment (PPE). When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. When mixed with insecticide, follow the safety precautions for that product. |
| Hygiene Measures | After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment. |

9. Physical and chemical properties

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| Form | Liquid |
| Appearance | Amber coloured liquid |
| Odour | Solvent odour |
| Solubility in Water | Forms an emulsion in water. |
| Specific Gravity | 1.036 - 1.040 |
| pH | 7.0 - 8.0 (5% in water) |
| Vapour Pressure | 2.0 x 10 ⁻² mPa @ 60°C (gas saturation method) |
| Partition Coefficient: n-octanol/water | Kow Log P is 4.75 for piperonyl butoxide |
| Flash Point | 63°C |
| Flammability | Combustible Liquid (GHS). |

10. Stability and reactivity

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| Possibility of hazardous reactions | Keep away from strong oxidising agents, may react violently. |
| Hazardous Polymerization | Hazardous polymerisation is not possible. |

11. Toxicological Information

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| Toxicology Information | No harmful effects are expected if the precautions on the label and this MSDS are followed. |
| Acute Toxicity - Oral | The following data is for the active ingredient, piperonyl butoxide. LD50 (rat) 7500 mg/kg LD50 (rabbit) 7500 mg/kg |
| Acute Toxicity - Dermal | LD50 (rat) >7950 mg/kg for piperonyl butoxide LD50 (rabbit) 1880 mg/kg for piperonyl butoxide |
| Acute Toxicity - Inhalation | LC50 (rat) >5.9 mg/l |
| Ingestion | The concentrate is of low toxicity if swallowed. Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. However, swallowing large amounts of concentrate may cause nausea and vomiting. |
| Inhalation | Not a likely route of exposure when handling the concentrate. |
| Skin | Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis. Prolonged contact with the concentrate may result in absorption of piperonyl |

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| Eye | butoxide in harmful amounts. The concentrate may cause irritation of the eyes. |
| Skin Sensitisation | Prolonged and repeated skin contact may result in skin sensitisation due to the presence of octabenzene. |
| Carcinogenicity | Data indicates no carcinogenic effects. |
| Reproductive Toxicity | Data indicates no teratogenic effects. |
| Chronic Effects | Chronic Overexposure: Insufficient data are available to allow satisfactory documentation of possible effects. |
| Mutagenicity | Data indicates no mutagenic effects. |
| Skin corrosion/irritation | Not a skin irritant. |
| Other Information | The Australian Acceptable Daily Intake (ADI) for piperonyl butoxide for a human is 0.1 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 16 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Aust Govt Dept. of APVMA, 'ADI List', February 2021). |

12. Ecological information

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| Persistence and degradability | Loss from soil is principally by oxidation. |
| Other Precautions | Do not contaminate dams, waterways or sewers with this product or the containers which have held this product. |
| Acute Toxicity - Fish | The following is data for the active ingredient, piperonyl butoxide. Harmful to fish. LC50 (96hr) for cyprinidae is 5.3 mg/l. |
| Acute Toxicity - Daphnia | LC50 (48hr) for piperonyl butoxide is 0.51 mg/l. |
| Acute Toxicity - Algae | EC50 (72hr) for piperonyl butoxide is 0.24 mg/l. |

13. Disposal considerations

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| Product Disposal | On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®). |
| Container Disposal | Do not use this container for any other purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. |

14. Transport information

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| Transport Information | It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs. |
| Hazchem Code | 3Z |
| Storage and Transport | Not a dangerous good in packs not exceeding 500 kg (L) or IBCs not exceeding 3000 kg (L) (Special Provision AU01) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. |
| UN Number (Sea Transport) | 3082 |
| IMO Class/Packing Group | Class 9/PG III |

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| IMO Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (piperonyl butoxide) |
| IMDG Marine pollutant | Marine pollutant |

15. Regulatory information

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| Regulatory Information | WHS Schedule 11: item 10 - Flammable Liquid category 4 . |
| Poisons Schedule | Not Scheduled |
| Packaging & Labelling | READ SAFETY DIRECTIONS BEFORE OPENING OR USING |
| Other Information | This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 58463. |

16. Other Information

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| Date of preparation or last revision of SDS | Revised 17/08/2021 |
| Contact Person/Point | Normal Hours: SDS Coordinator Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498 ...End Of MSDS... |

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