

Infosafe No™ 3NV3H Issue Date : April 2024 ISSUED by NUFARMNZ

Product Name **NAIL@600EC**

## Section 1 - Identification

<b>Product Identifier</b>	NAIL@600EC
<b>Product Code</b>	00606
<b>Product Type</b>	Herbicide
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150
<b>Emergency Phone Number</b>	0800 651 911
<b>Email</b>	nzinfo@nufarm.com
<b>Recommended uses and any restrictions on use or supply</b>	For use in mixtures with systemic and knockdown herbicides to improve the range of weeds controlled and the speed of knockdown and also for dessication of seed potato haulms.
<b>Other Information</b>	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## Section 2 - Hazard(s) Identification

<b>GHS classification of the substance/mixture</b>	Flammable liquids: Category 4 Acute dermal toxicity: Category 3 Acute inhalation toxicity: Category 4 Skin corrosion/irritation: Category 2 Eye irritation Category 2 Carcinogenicity: Category 2 Specific target organ toxicity - repeated exposure: Category 2 Hazardous to the terrestrial environment: Hazardous to soil organisms Hazardous to the terrestrial environment: Hazardous to terrestrial vertebrates Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H227 Combustible liquid. H311 Toxic in contact with skin. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H351 Suspected of causing cancer. H373 May cause damage to liver through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. H421 Very toxic to the soil environment. H433 Harmful to terrestrial vertebrates.
<b>Precautionary Statement – General</b>	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions.
<b>Pictogram (s)</b>	Skull and crossbones, Health hazard, Environment



<b>Precautionary Statement – Prevention</b>	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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<b>Precautionary Statement – Response</b>	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands and face thoroughly after handling. 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/hearing protection. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep 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. P308+P313 IF exposed or concerned: Get medical advice/attention. P312 Call a POISON CENTER/doctor if you feel unwell. P314 Get medical advice/attention if you feel unwell. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P361 Take off immediately all contaminated clothing. P362+P364 Take off contaminated clothing and wash it before reuse. P363 Wash contaminated clothing before reuse. P370+P378 In case of fire: Use to extinguish. P391 Collect spillage.
<b>Precautionary Statement – Storage</b>	P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.
<b>Precautionary Statement – Disposal</b>	P501 Dispose of contents/container to an approved landfill.

### Section 3 - Composition and Information on Ingredients

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Carfentrazone- ethyl	128639-02-1	600 g/L
	N, N-dimethyl C8-C10 alkylamides	Mixture	20-40 %
	Surfactants	Proprietary	1-10 %

### Section 4 - First Aid Measures

<b>First-aid Measures</b>	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
<b>Inhalation</b>	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
<b>Skin</b>	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance. Do not scrub the skin.
<b>Eye</b>	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.
<b>First-aid Facilities</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
<b>Advice to Doctor</b>	Treat symptomatically. If vomiting occurs, solvent present may cause pulmonary pneumonitis.

### Section 5 - Firefighting Measures

<b>Suitable Extinguishing Media</b>	Foam, carbon dioxide or dry chemical.
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<b>Hazards from Combustion Products</b>	If involved in fire, it may emit hydrogen chloride, phosgene and hydrogen fluoride.
<b>Special protective equipment for fire-fighters</b>	Full protective clothing and self-contained breathing apparatus.
<b>Specific Methods</b>	Keep upwind. Do not allow washings to reach sewage or effluent systems.
<b>Hazchem Code</b>	2Z
<b>Decomposition Temperature</b>	Information is not available.
<b>Other Information</b>	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: 2 for 500L or more

## Section 6 - Accidental Release Measures

<b>Spills and Disposal</b>	Wear protective clothing. Clear area of unprotected personnel. Eliminate all ignition sources and naked lights. Use non-sparking utensils. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill. Prevent material from coming into contact with Class 1, 2, 3.2, 4 or 5 substances. Wash area with water and detergent and absorb with inert material. Dispose of waste safely in an approved landfill.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers.

## Section 7 - Handling and Storage

<b>Precautions for Safe Handling</b>	Do not handle until all safety precautions have been read and understood. The person mixing or applying this product must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'. For more information refer to the Hazardous Substances (Hazardous Property Controls) Notice 2017. It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017. Avoid skin and eye contact and inhalation of spray mist. This product must not be applied onto or into water. BEWARE: Spray drift hazard. Apply this product carefully. Certain plants may be killed or damaged from contact with this product. Do not allow spray drift to occur outside the target area. CERTIFIED HANDLER: Is not required. TRACKING: Is not required. RECORD KEEPING: Records of use as described in NZS8409 Management of Agrichemicals must be kept if 3 L or more of NAIL 600EC is applied within 24 hours. Records must be kept for a minimum of 3 years from application date.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in original container tightly closed and in a locked, dry, cool area away from sources of ignition and foodstuffs. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Do not store with HSNO Class 1, 2, 3.2, 4 or 5 substances. Stores containing 100L of NAIL 600EC require secondary containment and are subject to signage, and more than 100L require emergency response plans. Stores exceeding 500 litres of this substance must have at least 2 fire extinguishers. Do not store near heat or flame.
<b>Other Information</b>	Always read the label and any attached leaflet before use. Aggregate Storage Volume Thresholds: When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

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## Section 8 - Exposure Controls and Personal Protection

<b>Occupational Exposure Limits (OEL)</b>	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
<b>Appropriate Engineering Controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Personal Protective Equipment</b>	When opening the container, preparing spray and using the prepared spray wear full protective clothing such as a PVC spray suit or leggings, elbow length PVC gloves, chemical resistant boots with socks, eye protection, waterproof headgear and a NIOSH approved respirator with combination filter for vapour/particles.
<b>Hygiene Measures</b>	Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly after handling. Wash protective clothing daily after work.

## Section 9 - Physical and Chemical Properties

<b>Form</b>	Liquid
<b>Appearance</b>	Amber coloured clear liquid.
<b>Odour</b>	Aromatic solvent odour.
<b>Decomposition Temperature</b>	Information is not available.
<b>Solubility in Water</b>	Forms an emulsion in water.
<b>Specific Gravity</b>	typically 1.144 g/ml
<b>pH</b>	4.5-6.5 (1% aqueous solution)
<b>Vapour Pressure</b>	0.016 mPa @25°C for carfentrazone-ethyl.
<b>Vapour Density (Air=1)</b>	>1 (solvent)
<b>Odour Threshold</b>	Information is not available.
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P = 3.36 (carfentrazone-ethyl)
<b>Flash Point</b>	88 °C
<b>Flammability</b>	Combustible liquid.
<b>Auto-ignition Temperature</b>	Information is not available.
<b>Flammable Limits - Lower</b>	Information is not available.
<b>Flammable Limits - Upper</b>	Information is not available.
<b>Initial Boiling Point and Boiling Range</b>	Information is not available.
<b>Kinematic Viscosity</b>	Information is not available.
<b>Particle Characteristics</b>	Information is not available.
<b>Relative Density</b>	Information is not available.
<b>Melting/Freezing Point</b>	Information is not available.
<b>Other Information</b>	(EC) Emulsifiable concentrate

## Section 10 - Stability and Reactivity

<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
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**Conditions to Avoid** Avoid strong acids or alkalis. Avoid oxidising agents. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke. Vapour may travel a considerable distance to source of ignition and flash back.

**Hazardous Polymerization** Hazardous polymerisation will not occur.

## Section 11 - Toxicological Information

**Toxicology Information** The data listed below is for the active ingredient unless otherwise stated.

**Acute Toxicity - Oral** LD50 (female rat) = 5143 mg/kg

**Acute Toxicity - Inhalation** LC50 (rat) >6.31mg/L/4hr

**Acute Toxicity - Dermal** LD50 (rat) >4,000mg/kg

**Skin** Skin irritant.

**Corrosion/Irritation**

**Serious Eye Damage/Irritation** An eye irritant.

**Respiratory Irritation** Information is not available.

**Skin Sensitisation** Not a skin sensitiser.

**Germ Cell Mutagenicity** Information is not available.

**Carcinogenicity** Suspected of causing cancer.

**Reproductive Toxicity** Information is not available.

**STOT - Repeated Exposure** May cause liver damage from repeated oral and inhalation exposure.

**Aspiration Hazard** Information is not available.

**Other Information** The Australian Acceptable Daily Intake (ADI) for carfentrazone-ethyl for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 3 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', Edition 4 /2023).

## Section 12 - Ecological Information

**Persistence and Degradability** Carfentrazone-ethyl is rapidly degradable.

**Mobility** Information is not available.

**Environmental Fate** Carfentrazone ethyl is slightly soluble in water and is expected to adhere moderately to soil. In the laboratory, soil DT50 is a few hours, degrading to free acid, which in turn has DT50 2.5-4.0 d.

**Bioaccumulative Potential** Carfentrazone-ethyl is not bioaccumulative.  
Log Kow 3.36 (carfentrazone-ethyl)

**Acute Toxicity - Fish** LC50 (96h) (tidewater silverside) = 1.14 mg/L

**Acute Toxicity - Daphnia** EC50 (48h) Daphnia = 9.8 mg/L

**Acute Toxicity - Algae** EC50 (depending on species) = 5.7-17µg/L

**Acute Toxicity - Other Organisms** LD50 Bobwhite quail >2250 ppm  
LD50 Mallard duck >5620 ppm  
EC50 (14d) for Lemna gibba = 0.0057 mg/L  
Bees

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LD50 (oral) >35µg/bee; (contact)>200µg/bee  
Worms  
LC50 >820 mg/kg soil

## Section 13 - Disposal Considerations

**Product Disposal** Dispose of product only by using according to the label, or at an approved landfill. Do not burn.

**Container Disposal** Triple rinse empty container and add rinsate to the spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

## Section 14 - Transport Information

**Transport Information** It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

**UN Number** 2902

**Proper Shipping Name** PESTICIDE, LIQUID, TOXIC, N.O.S. - (carfentrazone-ethyl)

**Hazard Class** 6.1

**Hazchem Code** 2Z

**Packaging Method** -

**Packing Group** III

**EPG Number** -

**IERG Number** 34

**IMO Marine Pollutant** Yes. Environmentally Hazardous Substance mark required.

**IMDG EMS** F-A, S-F

**Other Information** Do not carry this product on a passenger service vehicle.  
Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

## Section 15 - Regulatory Information

**National and or International Regulatory Information** Registered pursuant to the ACVM Act 1997, No. P9630  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions  
Approved pursuant to the HSNO Act 1996, Approval Code HSR101344  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

**Packaging and Labelling** DANGER  
Warning-combustible liquid  
Keep out of reach of children.

## Section 16 - Any Other Relevant Information

**Date of preparation or last revision of SDS** April 2019.

**Contact Person/Point** IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE  
24Hr Tollfree Emergency No: 0800 651 911  
24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

**Revisions Highlighted** 5 yearly review carried out. Various changes and updates made to the document to comply with GHS7.  
...End Of MSDS...

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