

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

Product Name **NAIL@600EC**

Section 1 - Identification

Product Identifier	NAIL@600EC
Product Code	00606
Product Type	Herbicide
Company Name	Nufarm NZ
Address	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency Phone Number	0800 651 911
Email	nzinfo@nufarm.com
Recommended uses and any restrictions on use or supply	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.
Other Information	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

GHS classification of the substance/mixture	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
Signal Word (s)	DANGER
Hazard Statement (s)	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.
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 carefully and follow all instructions.
Pictogram (s)	Skull and crossbones, Health hazard, Environment



Precautionary Statement – Prevention	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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Precautionary Statement – Response

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.

Precautionary Statement – Storage

P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Precautionary Statement – Disposal

P501 Dispose of contents/container to an approved landfill.

Section 3 - Composition and Information on Ingredients

Chemical Characterization	Liquid		
Ingredients	Name	CAS	Proportion
	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

First-aid Measures	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.
Inhalation	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.
Ingestion	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.
Skin	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.
Eye	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.
First-aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically. If vomiting occurs, solvent present may cause pulmonary pneumonitis.

Section 5 - Firefighting Measures

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

Section 6 - Accidental Release Measures

Spills and Disposal	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.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

Section 7 - Handling and Storage

Precautions for Safe Handling	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. RESTRICTED TO WORKPLACE : A person may use and store the substance only in a workplace. A person may supply the substance only to: (a) a workplace under the management and control of a PCBU, and only if the person has received written notification that a competent person at the workplace will accept responsibility for the substance; or (b) an authorised person, if the person has received written notification that the authorised person will accept responsibility for the substance. 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. A person who supplies the substance must retain the following written records for 12 months from the date of transfer of the substance: (a) the product name or chemical name of the substance transferred; and (b) the identity and address of the competent person or authorised person that received the transferred substance; and (c) the date on which the transfer occurred; and
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Conditions for safe storage, including any incompatibilities	<p>(d) a copy of the notification. A competent person means: (a) a certified handler; or (b) a person who has received information, instruction, and training in accordance with regulation 4.5. An authorised person means a person who holds a permission granted by the Authority under section 95A of the Act to use the substance in a place that is not a workplace.</p> <p>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.</p>
Other Information	<p>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.</p>

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL)	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
Appropriate Engineering Controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	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.
Hygiene Measures	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

Form	Liquid
Appearance	Amber coloured clear liquid.
Odour	Aromatic solvent odour.
Decomposition Temperature	Information is not available.
Solubility in Water	Forms an emulsion in water.
Specific Gravity	typically 1.144 g/ml
pH	4.5-6.5 (1% aqueous solution)
Vapour Pressure	0.016 mPa @25°C for carfentrazone-ethyl.
Vapour Density (Air=1)	>1 (solvent)
Odour Threshold	Information is not available.
Partition Coefficient: n-octanol/water	Kow Log P = 3.36 (carfentrazone-ethyl)
Flash Point	88 °C
Flammability	Combustible liquid.

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Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Initial Boiling Point and Boiling Range	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Relative Density	Information is not available.
Melting/Freezing Point	Information is not available.
Other Information	(EC) Emulsifiable concentrate

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
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

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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) = 5.7-17 µg/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 LD50 (oral) >35 µg/bee; (contact) >200 µg/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 for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR101344 See www.epa.govt.nz for approval controls.
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Section 16 - Any Other Relevant Information

Date of preparation April 2019.

**or last revision of
SDS**

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 5 yearly review carried out. Various changes and updates made to the document
Highlighted to comply with GHS7.

...End Of MSDS...

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