

Infosafe No™ 3NV3H	Issue Date : April 2019	ISSUED by NUFARM
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 Product Name **NAIL@600EC**

1. Identification

GHS Product Identifier	NAIL@600EC
Product Code	00606
Product Type	Herbicide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency phone number	0800 651 911
Email	nzinfo@nufarm.com
Recommended use of the chemical and restrictions on use	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.

2. Hazard Identification

Signal Word (s)	DANGER
Hazard Statement (s)	H227 Combustible liquid H303 May be harmful if swallowed. H311 Toxic in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory 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.
General Precautionary Statement (s)	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)	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/sparks/open flames/hot surfaces. – No smoking. 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. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required.
Precautionary statement – Response	P302+P352 IF ON SKIN: Wash with plenty of soap and water. 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. P308+P313 IF exposed or concerned: Get medical advice/attention.

Infosafe No™ 3NV3H	Issue Date : April 2019	ISSUED by NUFARM
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 Product Name **NAIL®600EC**

Precautionary statement – Storage
Other Information

P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P362 Take off contaminated clothing and wash before reuse.
 P370+P378 In case of fire: Use water fog, foam, carbon dioxide or dry chemical for extinction.
 P391 Collect spillage.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.

3.1D combustible liquid, 6.1C acute toxicant, 6.3A skin irritant, 6.4A eye irritant, 6.7B suspected carcinogen, 6.9B target organ toxicant, 9.1A aquatic toxicant, 9.2A soil toxicant, 9.3C terrestrial vertebrate toxicant.

3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<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 %

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 contact 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.

5. Fire-fighting measures

Suitable extinguishing media Foam, carbon dioxide or dry chemical.

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 Temp. Data not available.

Other Information Location Certificate: Not applicable
 Hazardous Atmosphere Zone: Not applicable
 Number of Fire Extinguishers: 2 for 500L or more

6. Accidental release measures

Spills & Disposal Wear protective clothing. Clear area of unprotected personnel. Eliminate all ignition sources and naked lights. Use non-sparking utensils. Contain spill

Infosafe No™ 3NV3H	Issue Date : April 2019	ISSUED by NUFARM
--------------------	-------------------------	------------------

Product Name **NAIL®600EC**

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.

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.

CERTIFIED HANDLER: Is not required.

TRACKING: Is not required.

RECORD KEEPING: Records of use as described in the NZS 8409 Management of Agrichemicals must be kept.

This product must not be applied onto or into water.

Conditions for safe storage, including any incompatibilities

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.

Other Information

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.

8. Exposure controls/personal protection

Occupational exposure limit values

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.

9. Physical and chemical properties

Form

Liquid

Appearance

Amber coloured clear liquid.

Odour

Aromatic solvent odour.

Decomposition Temperature

Data not available.

Melting Point

Not applicable.

Freezing Point

Data not available.

Infosafe No™ 3NV3H	Issue Date : April 2019	ISSUED by NUFARM
--------------------	-------------------------	------------------

 Product Name **NAIL@600EC**

Boiling Point	Data 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)
Partition Coefficient: n-octanol/water	Kow Log P = 3.36 (carfentrazone-ethyl)
Flash Point	88 °C
Flammability	Combustible liquid.
Auto-Ignition Temperature	Data not available.
Flammable Limits - Lower	Data not available.
Flammable Limits - Upper	Data not available.
Other Information	(EC) Emulsifiable concentrate

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.

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 - Dermal	LD50 (rat) >4,000mg/kg
Acute Toxicity - Inhalation	LC50 (rat) >6.31mg/L/4hr
Skin Sensitisation	Not a skin sensitiser.
Germ cell mutagenicity	Data not available.
Carcinogenicity	Suspected of causing cancer.
Reproductive Toxicity	Data not available.
STOT-repeated exposure	May cause liver damage from repeated oral and inhalation exposure.
Serious eye damage/irritation	An eye irritant.
Respiratory Irritation	Data not available.
Skin corrosion/irritation	Skin irritant.
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 0.30 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: Comm. Dept. of Health and Ageing, Office of

Infosafe No™ 3NV3H	Issue Date : April 2019	ISSUED by NUFARM
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 Product Name **NAIL®600EC**

Chemical Safety, 'ADI List', December 2014).

12. Ecological information

Persistence and degradability	Carfentrazone-ethyl is rapidly degradable.
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 LD50 (oral) >35µg/bee; (contact)>200µg/bee Worms LC50 >820 mg/kg soil

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.

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
U.N. Number	2902
UN proper shipping name	PESTICIDE, LIQUID, TOXIC, N.O.S. - (carfentrazone-ethyl 60%)
Transport hazard class(es)	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.

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



Safety Data Sheet

infosafe
CS: 1.7.2

Page: 6 of 6

Infosafe No™ 3NV3H	Issue Date : April 2019	ISSUED by NUFARM
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Product Name **NAIL@600EC**

16. Other Information

Date of preparation Not applicable. First Issue.

**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
...End Of MSDS...

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