

Infosafe No™ 3NUUP	Issue Date : July 2015	ISSUED by NUFARMNZ
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 Product Name **NAIL®EC**

1. Identification

GHS Product Identifier	NAIL®EC
Product Code	00600
Product Type	Herbicide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150 Fax: 0-9-270 4159
Emergency phone number	0800 651 911
Email	info@nz.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

Other Information	3.1D combustible liquid, 6.1E acute toxicant, 6.3B skin irritant, 6.4A eye irritant, 6.9B target organ toxicant, 9.1A aquatic toxicant, 9.2A soil toxicant. FLAMMABLE Warning-combustible liquid TOXICITY Harmful- may be harmful if swallowed, inhaled or absorbed through the skin. May cause skin or eye irritation. May cause liver damage from repeated oral exposure. ECOTOXIC Very toxic to aquatic organisms with long lasting effects. Very toxic to the soil environment.
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3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Carfentrazone- ethyl	128639-02-1	240 g/L
	Surfactants	Proprietary	1-10 %
	Hydrocarbon Liquid	64742-94-5	>60%

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.

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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	On burning will emit toxic fumes.
Special Protective Equipment for fire fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Hazchem Code	2X
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 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	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor. 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 EC 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

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Hygiene Measures	gloves, chemical resistant boots with socks, eye protection, waterproof headgear and a NIOSH approved respirator with combination filter for vapour/particles. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.
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9. Physical and chemical properties

Form	Liquid
Appearance	Yellow orange
Odour	Aromatic solvent odour.
Solubility in Water	Disperses in water.
pH	5.25 (1% aqueous solution)
Vapour Pressure	5.4 x 10 ⁻⁸ @20°C
Flash Point	80 °C
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
Eye	An eye irritant.
Skin Sensitisation	Not a skin sensitiser.
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 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

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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 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (carfentrazone-ethyl 24%)

Transport hazard class(es) 9

Hazchem Code 2X

Packaging Method -

Packing Group III

EPG Number -

IERG Number 47

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. P9182
 See www.foodsafety.govt.nz for registration conditions
 Approved pursuant to the HSNO Act 1996, Approval Code HSR000436
 See www.epa.govt.nz for approval controls.

Packaging & Labelling WARNING-combustible liquid
 HARMFUL*ECOTOXIC- Keep out of reach of children.

Hazard Rating NFPA/HMIS: 1-2-1

Systems

Hazard Category WARNING - Combustible Liquid HARMFUL * ECOTOXIC - Keep out of reach of children

16. Other Information

Date of preparation or last revision of SDS Not applicable. First Issue.

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...



Safety Data Sheet

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