

Infosafe No™ 3NUZX Issue Date : March 2021 ISSUED by NUFARM

 Product Name **NAIL 600EC Herbicide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	NAIL 600EC Herbicide
<b>Product Code</b>	0851
<b>Product Type</b>	Group G Herbicide
<b>Company Name</b>	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
<b>Address</b>	103-105 Pipe Road Laverton North Victoria 3026 Australia
<b>Telephone/Fax Number</b>	Tel: +61 3 9282-1000
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>E-mail Address</b>	SDSANZ@nufarm.com
<b>Recommended use of the chemical and restrictions on use</b>	This product is for the improvement in the control of marshmallow and certain other broadleaf weeds prior to establishment of crops, fallows or forest plantations, in commercial, industrial and public service areas, around agricultural buildings and yards, in treefruits, nuts, grapevines in tank mixture with knockdown herbicides; control of marshmallow and annual nettles in grass pastures and rough grass/turf areas; and control of volunteer cotton seedlings including Roundup Ready® cotton and desiccation of cotton regrowth as per the Directions for Use table on the label.
<b>Other Information</b>	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

<b>GHS classification of the substance/mixture</b>	Serious eye irritation: Category 1 Skin corrosion/irritation: Category 2 Specific target organ toxicity - single exposure: Category 3 Flammable liquids: Category 4 Hazardous to the aquatic environment, long-term (Chronic): Category Chronic 1
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H318 Causes serious eye damage H315 Causes skin irritation H227 Combustible liquid H335 May cause respiratory irritation H410 Very toxic to aquatic life with long lasting effects
<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 label before use.
<b>Pictogram (s)</b>	Corrosion, Exclamation mark, Environment



<b>Precautionary statement – Prevention</b>	P280 Wear protective gloves/eye protection/face protection. P264 Wash hands and exposed skin thoroughly after handling. H261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P271 Use only outdoors or in a well-ventilated area.
<b>Precautionary statement – Response</b>	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash before reuse. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for

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**Other Information** breathing.  
SUSMP: S6

### 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Carfentrazone- ethyl	128639-02-1	600 g/L
	N,N-Dimethyldecanamide	14433-76-2	10-30 %
	N,N-dimethyloctanamide	1118-92-9	10-30 %
	Liquid Hydrocarbon	64742-94-5	0-10 %
	Other ingredients		0-10%

### 4. First-aid measures

**Inhalation** Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.

**Ingestion** Rinse mouth and then drink plenty 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.

**Eye contact** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.  
Seek medical advice.

**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 present may cause pulmonary pneumonitis.

### 5. Fire-fighting measures

**Suitable extinguishing media** Water fog, foam, carbon dioxide or dry chemical.

**Hazards from Combustion Products** If involved in a fire, it may emit hydrogen chloride, phosgene and hydrogen fluoride.

**Special Protective Equipment for fire fighters** Breathable air apparatus should be worn when fighting a fire in which this product is involved.

**Other Information** STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

### 6. Accidental release measures

**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.  
On-site disposal of concentrate is not acceptable.

**Personal Protection** For appropriate personal protective equipment (PPE), refer Section 8.

**Environmental Precautions** This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

### 7. Handling and storage

**Precautions for Safe Handling** Do NOT spray in high winds.  
Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.

**Conditions for safe storage, including any incompatibilities** Store in the closed, original container in a dry, well ventilated area, as cool as possible.  
Do not store for prolonged periods in direct sunlight.  
Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.

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**Other Information** Always read the label and any attached leaflet before use.  
 Mix only as much herbicide solution as needed at the time. Do not store the sprayer for any extended period of time, especially overnight, with spray solution remaining in the tank, spray lines, spray boom plumbing or spray nozzles or strainers.

## 8. Exposure controls/personal protection

**Occupational exposure limit values** The manufacturer of the solvent has recommended an occupational exposure limit of 50 mg/m<sup>3</sup>; 8ppm TWA, as total hydrocarbon.

**Appropriate engineering controls** Handle in well ventilated areas, generally natural ventilation is adequate.

**Respiratory Protection** Do not inhale spray mist.  
 When opening the container and preparing spray for use, wear face shield or goggles and disposable (mist) face mask covering mouth and nose.

**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 rubber gloves and face shield or goggles.

**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.

**Requirements Concerning Special Training** Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

## 9. Physical and chemical properties

**Form** Liquid

**Appearance** Yellow orange liquid

**Solubility in Water** Forms an emulsion in water.

**Specific Gravity** 1.173

**pH** 6.5-7.5 (1% in water)

**Vapour Pressure** 0.016 mPa @ 25°C for carfentrazone ethyl

**Vapour Density (Air=1)** >1 (solvent)

**Partition Coefficient: n-octanol/water** Kow Log P is 3.36 for carfentrazone-ethyl

**Flash Point** 88°C

**Flammability** Combustible Liquid (GHS). Combustible liquid C1. (AS1940 - 2017).

## 10. Stability and reactivity

**Chemical Stability** Stable under normal conditions.  
 Hydrolyses at pH >7.

**Possibility of hazardous reactions** Keep away from strong oxidising agents.

**Hazardous Polymerization** Hazardous polymerisation is not possible.

## 11. Toxicological Information

**Acute Toxicity - Oral** LD50 (female rat) 5143 mg/kg for carfentrazone-ethyl

**Acute Toxicity - Dermal** LD50 (rabbit) >4000 mg/kg for carfentrazone-ethyl

**Acute Toxicity - Inhalation** LC50 (rat) (4hr) >5 mg/l

**Ingestion** If aspirated into the lung, e.g. from vomiting, the presence of solvent may result in chemical pneumonitis or other lung damage.

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<b>Inhalation</b>	High vapour concentrations of the solvent while handling the concentrate are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, and may have other central nervous system effects.
<b>Skin</b>	Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.
<b>Eye</b>	The concentrate will cause severe irritation and possible damage unless washed off immediately. Possible symptoms include redness, swelling, tearing and pain.
<b>Chronic Effects</b>	Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.
<b>Other Information</b>	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', April 2020).

## 12. Ecological information

<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
<b>Environmental Protection</b>	Spray drift can cause damage, read the label for more information.
<b>Acute Toxicity - Fish</b>	The following is data for the active ingredient, carfentrazone-ethyl. Not toxic to fish. LC50 (96 hr) for various species is 1.6 - 43 mg/l.
<b>Acute Toxicity - Daphnia</b>	LC50 (96hr) for daphnia is 9.8 mg/l.
<b>Acute Toxicity - Algae</b>	EC50 for algae is 0.012 - 0.018 mg/l for carfentrazone-ethyl
<b>Acute Toxicity - Other Organisms</b>	Birds: Not toxic to birds. LD50 for quail is >1000 mg/kg Bees: Not toxic to bees. LD50 >35 (oral); >100 (contact) µg/bee.

## 13. Disposal considerations

<b>Product Disposal</b>	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®).
<b>Container Disposal</b>	Triple 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, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.

## 14. Transport information

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>Storage and Transport</b>	Not classified as a Dangerous Good in packs not exceeding 500 kg(L) or IBCs not exceeding 3000 L (Special Provision AU01) according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. For bulk shipments as Class 9, UN 3082, PGIII, HazChem code 3Z.
<b>IMO Marine Pollutant</b>	Marine Pollutant
<b>IMO Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains carfentrazone-ethyl)

## 15. Regulatory information

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<b>Regulatory Information</b>	WHS Schedule 11: item 10 - Flammable Liquid category 4 .
<b>Poisons Schedule</b>	S6
<b>Packaging &amp; Labelling</b>	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Other Information</b>	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 69772.

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## 16. Other Information

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**Date of preparation or last revision of SDS** March 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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