

Infosafe No™ 3NUZ4	Issue Date : June 2017	ISSUED by NUFARM
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 Product Name **Exert 520 Herbicide**

Classified as hazardous

1. Identification

GHS Product Identifier	Exert 520 Herbicide	
Product Code	0735	NUL1586
Product Type	Group A Herbicide	
Company Name	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)	
Address	103-105 Pipe Road Laverton North Victoria 3026 Australia	
Telephone/Fax Number	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001	
Emergency phone number	1800 033 498 (24hr Australia)	
Recommended use of the chemical and restrictions on use	For the post-emergent control of a wide range of annual and perennial grass weeds in grain legume and oilseed crops, lucerne, medic and clover pasture and seed crops, forestry, bananas, citrus, grapes, pineapples, pome and stone fruit, pyrethrum, tropical fruit and nut crops as specified in the Directions for Use Table on the label.	
Other Information	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

GHS classification of the substance/mixture	OT4 Acute Toxicity - Oral: Category 4 AH1 Aspiration Hazard: Category 1 ED2A Eye Damage/Irritation: Category 2A SC-2 Skin Corrosion/Irritation: Category 2 CA2 Carcinogenicity: Category 2 SE-3NARC STOT Single Exposure Category 3 (narcotic) FL4 Flammable Liquids: Category 4
Signal Word (s)	DANGER
Hazard Statement (s)	H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H319 Causes serious eye irritation. H315 Causes skin irritation. H351 Suspected of causing cancer. H336 May cause drowsiness or dizziness. AUH066 Repeated exposure may cause skin dryness or cracking. H227 Combustible liquid
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)	Exclamation mark, Health hazard, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention	P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves, clothing, eye and face protection. P261 Avoid breathing vapours and spray.
Precautionary statement – Response	P308+P313 IF exposed or concerned: Get medical advice/attention. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 Poisons Schedule S6

Other Information

3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Haloxypop present as haloxypop-R methyl ester	72619-32-0	520 g/L
	Liquid Hydrocarbon	64742-94-5	439 g/L
	Anionic Surfactant		0-10 %
	Other ingredients (considered non-hazardous)		0-10 %

4. First-aid measures

Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
Ingestion	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	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
Eye contact	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice immediately.
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	Although material is not flammable, the concentrate is combustible. If involved in a fire, it will emit oxides of nitrogen, oxides of carbon, hydrogen chloride, hydrogen fluoride and possibly phosgene.
Special Protective Equipment for fire fighters	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
Hazchem Code	2Z
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.
Clean-up Methods - Large Spillages	If large liquid spills occur, attempt to recover as much spilt material from sumps and banded areas, as possible, before absorbing remaining material into vermiculite or other absorbent.

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7. Handling and storage

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

Tank Cleaning See label for detailed information on cleaning/decontaminating of spray equipment.

Other Information Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m³; 17ppm TWA, as total hydrocarbon.

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

Personal Protective Equipment When opening the container and preparing the spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC 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 Light brown liquid

Boiling Point 186°C (Solvent)

Solubility in Water Forms an emulsion in water.

Specific Gravity 1.10

Vapour Pressure 0.328 mPa @ 25°C for haloxyfop-R methyl

Partition Coefficient: n-octanol/water Kow Log P is 4.00 for haloxyfop-R methyl

Flash Point 69.5°C

Flammability Combustible Liquid (GHS). Combustible liquid C1. (does not sustain combustion) AS1940.

10. Stability and reactivity

Chemical Stability Stable under normal conditions.

Possibility of hazardous reactions Keep away from strong oxidising agents.

Hazardous Polymerization Hazardous polymerisation is not possible.

11. Toxicological Information

Toxicology Information No harmful effects are expected if the precautions on the label and this MSDS are followed.

Acute Toxicity - Oral LD50 (rats, male/female) 300 - 623 mg/kg for haloxyfop-R methyl

Acute Toxicity - Dermal LD50 (rat) >2000 mg/kg for haloxyfop-R methyl

Acute Toxicity - Inhalation LC50 (rat) (4hr) 4.7 mg/l for a similar formulation

Ingestion Possible symptoms of exposure include: symptoms of central nervous system depression as described under inhalation.

Inhalation High vapour concentrations of the solvent while handling the concentrate are

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Skin	irritating to the eyes and the respiratory tract, may cause headaches and dizziness, and may have other central nervous system effects.
Eye	Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.
Skin Sensitisation	The concentrate will cause severe irritation and possible damage unless washed off immediately.
Carcinogenicity	Product is not a skin sensitiser.
Reproductive Toxicity	An impurity present in the solvent has been found to cause tumors in laboratory studies. The active ingredient(s), haloxyfop is not considered carcinogenic.
Chronic Effects	Data indicates no reproductive effects. Data indicates no teratogenic effects.
Serious eye damage/irritation	Chronic exposure can cause damage to the liver.
Mutagenicity	This product is a severe eye irritant.
Skin corrosion/irritation	Data indicates no mutagenic effects.
Other Information	The product is a skin irritant.
	The Australian Acceptable Daily Intake (ADI) for haloxyfop for a human is 0.0003 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.03 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 Health, Office of Chemical Safety, 'ADI List', March 2016).

12. Ecological information

Persistence and degradability	Half life in soil is typically 14 days.
Environmental Protection	Spray drift can cause damage, read the label for more information.
Acute Toxicity - Fish	The following is data for the active ingredient, haloxyfop-R methyl. LC50 (96hr) for rainbow trout is 0.7 mg/l
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is 6.12 mg/l.
Acute Toxicity - Algae	EC50 (5 days) for algae 1.72 mg/l for haloxyfop-R methyl.
Acute Toxicity - Other Organisms	Birds: Not toxic to birds. LD50 for bobwhite quail is 1159 mg/kg Bees: Not toxic to bees. LD50 >100 µg/bee.

13. Disposal considerations

Product Disposal	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®).
Container Disposal	Triple or preferably pressure 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, puncture or shred and bury containers in local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
Hazchem Code	2Z

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Storage and Transport	Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
UN Number (Sea Transport)	3082
IMO Class/Packing Group	Class 9
IMO Marine Pollutant	Marine Pollutant
IMO Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains haloxyfop)

15. Regulatory information

Regulatory Information	WHS Schedule 11, item 10 (flammable liquid, category 4)
Poisons Schedule	S6
Packaging & Labelling	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Other Information	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 61678.

16. Other Information

Date of preparation or last revision of SDS	28/06/2017
Contact Person/Point	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498
Revisions Highlighted	The SDS was reviewed. Minor changes were made to the information and product has been rebranded. ...End Of MSDS...

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