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Infosafe No™ 3NUK1 Issue Date : June 2020 ISSUED by NUFARM

Product Name CREST®520

1. Identification

GHS Product

CREST®520

Identifier

00185 **Product Code Product Type** Herbicide Company Name Nufarm NZ

Address

6 Manu Street, Otahuhu Auckland 2024 New Zealand

Telephone/Fax

Tel: 0-9-270 4150

Number

Emergency phone

0800 651 911

number

E-mail Address nzinfo@nufarm.com

the chemical and restrictions on use

Recommended use of A selective post emergence herbicide for the control of grass weeds and

storksbill in many broadleaf crops, orchards and forestry.

This SDS describes, to the best of our knowledge, the properties of the Other Information

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

GHS classification of

Classified as Dangerous Goods for transport according to the New Zealand

Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

substance/mixture

Signal Word (s)

the

WARNING

Hazard Statement (s)

H227 Combustible liquid. H302 Harmful if swallowed.

H316 Causes mild skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure .

H410 Very toxic to aquatic life with long lasting effects.

H432 Toxic 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 label before use.

Exclamation mark, Health hazard, Environment Pictogram (s)







Precautionary statement -Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

Precautionary

P370+P378 In case of fire: Use In case of fire use water fog, foam, carbon

statement - Response dioxide or dry chemical. for extinction.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell.

P330 Rinse mouth.

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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.

P314 Get medical advice/attention if you feel unwell.

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

P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

Precautionary

statement – Storage Precautionary

Precautionarystatement - Disposal
P501 In the case of a substance that is in compliance with a HSNO approval
other than a Part 6A (Group Standards) approval, a label must provide a

description of one or more appropriate and achievable methods for the disposal

of a substance in accordance with the Hazardous Substances (Disposal)

Regulations 2001. This may also include any method of disposal that must be

avoided. See Section 13 for disposal details.

Other Information 3.1D Flammable liquid, 6.1D acute toxicant, 6.3B skin irritant, 6.4A eye

irritant, 6.9B target organ toxicant, 9.1A aquatic toxicant, 9.3B terrestrial

vertebrate toxicant.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Haloxyfop-P as the methyl ester	72619-32-0	520 g/L
	Aromatic Hydrocarbon	64742-94-5	30-60 %

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.

Eye contact Flush eyes with plenty of water for 15 minutes holding eyelids open if

necessary. Remove contact lenses, if present and easy to do. Seek Medical

assistance even if there are no immediate symptoms.

First Aid Facilities Facilities storing or utilizing this material should be equipped with an

eyewash facility and safety shower.

5. Fire-fighting measures

Suitable Water fog, foam, carbon dioxide or dry chemical.

extinguishing media

Unsuitable Do not use water in a jet.

Extinguishing Media

Hazards from On burning will emit toxic fumes.

Combustion During a fire, irritating and possibly toxic gases may be generated by thermal

Products decomposition or combustion.

Special Protective Equipment for fire fighters Full protective clothing and self-contained breathing apparatus.

 $\textbf{Specific Methods} \qquad \text{Keep up wind. Do not allow washings to reach sewage or effluent systems. Keep}$

containers cool with water spray.

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Decomposition Temp. Information 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 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 entering waterways. Absorb spills with inert material and place in waste

containers. Dispose of waste safely 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 This product is a herbicide and spills can damage crops, pastures and Precautions desirable vegetation.

Prevent contamination of soil and water.

7. Handling and storage

Handling and Storage

The person mixing or applying CREST 520 must be a 'Qualified Contractor' or 'Qualified Loader'. For more information refer to the Hazardous Substances 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.

Precautions for Safe Handling

Avoid skin and eye contact and inhalation of spray mist.

CERTIFIED HANDLER: Not Required

TRACKING: Not required.

RECORD KEEPING: Records of use as described in NZS 8409 Management of

Agrichemicals must be kept if 3 litres or more of CREST 520 is applied within

24 hours.

BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may

cause serious damage to other desirable plants. Do not apply CREST 520 onto or into water.

Conditions for safe storage, including any incompatibilities

Keep out of reach of children.

Store in original container tightly closed and in a locked dry, cool area away from sources of ignition, seeds, fertilisers 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 CREST 520 require secondary containment and are subject to signage, and more than 100L require emergency response plans.

Do not store near heat or flame.

Stores exceeding 500 litres of this substance must have at least 2 fire

extinguishers.

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.

ADE = 0.0003mg/kg bw/day for haloxyfop-P-methyl

PDE(food) = 0.00024mg/kg bw/day for haloxyfop-P-methyl

PDE (drinking water) = 0.00006mg/kg bw/day for haloxyfop-P-methyl

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Appropriate

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

Personal Protective Equipment

When opening the container, preparing spray and using the prepared spray wear safety goggles, chemically resistant gloves, cotton overalls buttoned to

the neck and wrist, and boots.

Do not eat ,drink or smoke while using. **Hygiene Measures**

Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work. Wash splashes of

concentrate from skin immediately.

9. Physical and chemical properties

Liquid **Form**

Amber liquid Appearance

Decomposition

Information not available.

Temperature

Melting Point -12.4°C (for haloxyfop-P-methyl) 186°C (for haloxyfop-P-methyl) **Freezing Point**

Forms an emulsion in water. Solubility in Water 1.086 - 1.108g/mL @ 20°C **Specific Gravity**

4.0 - 8.0pН

0.055 mPa (25°C) for haloxyfop-P-methyl Vapour Pressure

Vapour Density

Information is not available.

(Air=1)

Partition Coefficient: Kow logP = 4.00 for haloxyfop-P-methyl

n-octanol/water

Flash Point 69.5°C

Flammable liquid Flammability

Auto-Ignition

Information not available.

Temperature

Information is not available. Flammable Limits -

Lower

Information is not available. Flammable Limits -

Upper

>280°C (for haloxyfop-P-methyl) **Initial boiling point**

and boiling range

Information not available. **Kinematic Viscosity**

(EC) Emulsifiable concentrate Other Information

10. Stability and reactivity

Chemical Stability Stable under normal conditions of handling and storage.

Avoid extremes of temperature. **Conditions to Avoid**

Incompatible

Strong acids, alkalis or oxidising materials.

Materials

Hazardous polymerisation will not occur. Hazardous

Polymerization

11. Toxicological Information

No specific toxicological data is available for this product. Data below is **Toxicology**

for constituents. Information

Acute Toxicity - Oral LD50 (male rat) is 300mg/kg for haloxyfop-P- methyl.

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Acute percutaneous LD50 (rat) >2,000mg/kg for haloxyfop-P-methyl Acute Toxicity -

Dermal

May cause slight conjunctival eye irritation with slight discharge Eye

(haloxyfop-R, methyl ester)

Respiratory

Not a respiratory sensitiser.

sensitisation

Skin Sensitisation Not a skin sensitiser.

Germ cell

Information not available.

mutagenicity

Information not available. Carcinogenicity Information not available. Reproductive

Toxicity

Causes target organ damage. STOT-repeated

exposure

Information not available. **Aspiration Hazard** Causes mild skin irritation.

corrosion/irritation

Target organ: Hepatotoxicity (liver) for haloxyfop-R, methyl ester Subchronic/Chronic

NOEL is 0.065mg/kg bw/day for haloxyfop-P-methyl ester **Toxicity**

12. Ecological information

DT50 in water is 48 days at pH7 for haloxyfop-R, methyl ester Persistence and

degradability

Haloxyfop-R, methyl ester is not bioaccumulative. **Bioaccumulative**

Potential

Avoid contamination of any water supply with product or empty container. **Environmental**

Protection

Ecotoxicological data have not been determined specifically for this product. **Basis for Assessment**

Data below is for the active ingredient unless otherwise stated.

LC50 (96h) rainbow trout is 0.46 mg/L for haloxyfop-P-methyl. **Acute Toxicity - Fish**

Acute Toxicity -

Daphnia

EC50 (48h) daphnia is >12.3 mg/L for haloxyfop-P-methyl.

Acute Toxicity -

EC50 (5d) algae is 1.72mg/L for haloxyfop-P-methyl.

Algae

Acute Toxicity -LD50 bobwite quail is 1,159mg/kg for haloxyfop-P-methyl

LD50 (48h) bees (oral and contact) is >100µg/bee for haloxyfop-P-methyl Other Organisms

LC50 (14d) worms is 1,343mg/kg for haloxyfop-P-methyl

13. Disposal considerations

Dispose of product only by using according to the label, or at an approved **Product Disposal** landfill.

Do not burn.

Triple rinse empty container and add rinsate to spray tank. **Container Disposal**

container. Otherwise crush and bury in a suitable landfill.

14. Transport information

It is good practice not to transport agricultural chemical products with **Transport**

food, food related materials and animal feedstuffs. Information

U.N. Number

UN proper shipping

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (haloxyfop-P, 52%)

Transport hazard

class(es)

9

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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

Registered pursuant to the ACVM Act 1997, No. P8058 See www.foodsafety.govt.nz for registration conditions

Regulatory Information Approved pursuant to the HSNO Act 1996, Approval Code HSR100054

See www.epa.govt.nz for approval controls.

Hazard Rating

NFPA/HMIS: 1-2-1

Nov 2019

Systems

16. Other Information

Date of preparation

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 5 yearly review carried out. Various changes and updates made to document.

Revisions Highlighted

Other Information Supersedes SDS issued Nov 2019.

...End Of MSDS...

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