



4 Farmers ... For Farmers  
Printing date 01.12.2016

# SAFETY DATA SHEET

According to Safe Work Australia

Revision: 01.12.2016

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** 4FARMERS HALOXYFOP 520 HERBICIDE

**Other Means of Identification:** Mixture

**Recommended Use of the Chemical and Restriction on Use:** Agricultural herbicide

**Details of Manufacturer or Importer:**

4Farmers Australia Pty Ltd  
70 McDowell Street  
Welshpool WA 6106

**Phone Number:** +61 8 9356 3446

**Emergency telephone number:** National Poison Information Centre: 13 11 26

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01). However if transported by Air or Sea, this provision does not apply. Then the product is classed as Dangerous (Class 9 Environmentally Hazardous) by IATA and IMDG/IMSBC respectively. See details below and in Section 14 of this SDS.



environment

Aquatic Acute 1      H400 Very toxic to aquatic life.

Aquatic Chronic 1      H410 Very toxic to aquatic life with long lasting effects.



Acute Toxicity (Oral) 4      H302 Harmful if swallowed.

Flammable Liquids 4      H227 Combustible liquid.

**Signal Word** Warning

**Hazard Statements**

H227 Combustible liquid.

H302 Harmful if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P210      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P273      Avoid release to the environment.

P264      Wash hands thoroughly after handling.

P270      Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330      Rinse mouth.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P391      Collect spillage.

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

P501      Dispose of contents/container in accordance with local/regional/national regulations.

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## 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

72619-32-0	Haloxypop-P-methyl ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Toxicity (Oral) 4, H302	52%
111-90-0	2-(2-ethoxyethoxy)ethanol Flammable Liquids 4, H227	45%

## 4 . FIRST AID MEASURES

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

**Symptoms Caused by Exposure:** Inhalation: May cause respiratory irritation, drowsiness and dizziness.

## 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Water spray or fog, foam and dry chemical powder.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon and nitrogen, hydrogen chloride, phosgene, and other pyrolysis products.

Combustible liquid.

Closed containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

## 6 . ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia approved respiratory protection and protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

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### 7 . HANDLING AND STORAGE

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from direct sunlight, heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents.

### 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Engineering Controls:** Ensure adequate ventilation of the working area.

**Respiratory Protection:**

Use a Safe Work Australia approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

PVC, PVA, nitrile, neoprene, rubber or vinyl gloves, cotton overalls buttoned to the neck and wrist and a washable hat. See Australian/New Zealand Standard AS/NZS 2161 and 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 . PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear, brown
<b>Odour:</b>	Characteristic solvent odour
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	6-7
<b>Melting point/Melting range:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	182-202 °C
<b>Flash Point:</b>	92 °C
<b>Flammability:</b>	Combustible
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure:</b>	No information available
<b>Density:</b>	No information available
<b>Relative Density:</b>	1.142

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**Vapour Density:** No information available  
**Evaporation Rate:** Not determined.  
**Solubility in Water:** Miscible

## 10 . STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** Heat, sparks, open flames, hot surfaces and direct sunlight.

**Incompatible Materials:** Strong oxidising agents.

**Hazardous Decomposition Products:** Oxides of carbon and nitrogen, hydrogen chloride, phosgene

## 11 . TOXICOLOGICAL INFORMATION

### Toxicity:

#### LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:

#### 111-90-0 2-(2-ethoxyethoxy)ethanol

Oral	LD <sub>50</sub>	5500 mg/kg (rat)
Dermal	LD <sub>50</sub>	8500 mg/kg (rabbit)

#### 72619-32-0 Haloxyfop-P-methyl

Oral	LD50	300-623 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)

### Acute Health Effects

**Inhalation:** May cause respiratory irritation, drowsiness and dizziness.

**Skin:** No adverse health effects expected.

**Eye:** May cause eye irritation.

**Ingestion:** Harmful if swallowed.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.

**Respiratory or Skin Sensitisation:** No sensitising effects known.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

### Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

### Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

### Chronic Health Effects:

No information available

Repeated or prolonged exposure may cause conjunctivitis.

Prolonged or repeated skin exposure and may cause a contact dermatitis (non-allergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis.

**Existing Conditions Aggravated by Exposure:** No information available

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**Additional toxicological information:**

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. (ADI List, March 2016).

### 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:** Haloxyfop is practically non-toxic to birds and bees.

**Aquatic toxicity:**

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Persistence and Degradability:** Half life in soil is typically 14 days.

**Bioaccumulative Potential:** No information available

**Mobility in Soil:** No information available

### 13 . DISPOSAL CONSIDERATIONS

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.

**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

### 14 . TRANSPORT INFORMATION

**UN Number**

**ADG** Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01).

**IMDG, IATA** UN3082

**Proper Shipping Name**

**ADG** Not regulated

**IMDG, IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Haloxyfop-P-methyl)

**Dangerous Goods Class**

**ADG Class:** Not regulated

**IMDG Class:** 9 Miscellaneous dangerous substances and articles.

**Packing Group:**

**ADG** Not regulated

**IMDG, IATA** III

**EMS Number:** F-A,S-F

**Hazchem Code:** .3Z

### 15 . REGULATORY INFORMATION

**Australian Inventory of Chemical Substances:**

111-90-0	2-(2-ethoxyethoxy)ethanol
69806-40-2	Haloxyfop-methyl

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Poisons Schedule: 6

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### 16 . OTHER INFORMATION

**Date of Preparation or Last Revision:** 01.12.2016**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC<sub>50</sub>: Lethal concentration, 50 percentLD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Flammable Liquids 4: Flammable liquids – Category 4

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

**Data compared to the previous version altered:**

Previous version 01.09.2016.

Altered:

Section 2 "Hazards Identification" - Heading "Hazardous Nature".

Section 14 "Transport Information" - Headings "UN Number", "Proper Shipping Name", "Dangerous Goods Class", "Packing group", "Hazchem code".

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. 4Farmers Australia Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.