



# Safety Data Sheet

according to WHS Regulations

Printing date 30.05.22

Revision: 30.05.2022

## 1 Identification

**Product Name: 4FARMERS OXYFLUORFEN 240 EC 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 Hazard(s) 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.



health hazard

Toxic To Reproduction 1B H360D May damage the unborn child.

Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Corrosion/Irritation 2 H315 Causes skin irritation.

Serious Eye Damage/Irritation 2A H319 Causes serious eye irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

**Signal Word** Danger**Hazard Statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H360D May damage the unborn child.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

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

P273 Avoid release to the environment.

P264 Wash hands thoroughly after handling.

P201 Obtain special instructions before use.

(Contd. on page 2)



# Safety Data Sheet

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Revision: 30.05.2022

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(Contd. of page 1)

P202	Do not handle until all safety precautions have been read and understood.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P308+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P331	Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water.
P391	Collect spillage.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

**Additional Information** AUH066 Repeated exposure may cause skin dryness or cracking.

### 3 Composition and Information on Ingredients

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

64742-94-5	Solvent naphtha (petroleum), heavy aroma. Aspiration Hazard 1, H304	52%
42874-03-3	Oxyfluorfen Aquatic Acute 1, H400; Aquatic Chronic 1, H410	22.2%
872-50-4	N-methyl-2-pyrrolidone Toxic To Reproduction 1B, H360D; Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319; STOT SE 3, H335; Flammable Liquids 4, H227	9.3%

### 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 at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

**Information for Doctor:**

Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure.

Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO<sub>2</sub> 50 mm Hg) should be intubated.

Intravenous lines and cardiac monitors should be established in obviously symptomatic patients.

The lungs excrete inhaled solvents, so that hyperventilation improves clearance.

A chest x-ray should be taken immediately after stabilization of breathing and circulation to document aspiration and detect the presence of pneumothorax.

Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin

(Contd. on page 3)



## Safety Data Sheet according to WHS Regulations

Printing date 30.05.2022

Revision: 30.05.2022

### Product Name: 4FARMERS OXYFLUORFEN 240 EC HERBICIDE

(Contd. of page 2)

disorders may be aggravated by exposure to this product.

In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases.

#### Symptoms Caused by Exposure:

Inhalation: Inhalation of vapour while handling the concentrate is irritating to the respiratory tract and may cause headaches, dizziness and other central nervous system effects.

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: The concentrate is of low toxicity if ingested. May be fatal if swallowed and enters airways. If aspirated into the lungs from vomiting or swallowing, the presence of solvent may result in chemical pneumonitis or other lung damage.

### 5 Fire Fighting Measures

#### Suitable Extinguishing Media:

Carbon dioxide, dry chemical powder, foam or water fog. Do not use direct jet of water.

#### Specific Hazards Arising from the Chemical:

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

Product is not flammable, but may burn if heated. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Contamination with oxidising agents such as nitrates, oxidising agents, chlorine bleaches or pool chlorine may cause ignition.

#### 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 full 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. Wash contaminated areas with soap or water. Slippery when spilt. Clean immediately.

### 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.

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 prolonged periods in direct sunlight, heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents.

(Contd. on page 4)



## Safety Data Sheet

according to WHS Regulations

Printing date 30.05.2022

Revision: 30.05.2022

**Product Name: 4FARMERS OXYFLUORFEN 240 EC HERBICIDE**

(Contd. of page 3)

### 8 Exposure controls and personal protection

**Exposure Standards:****872-50-4 N-methyl-2-pyrrolidone**

NES	STEL: 309 mg/m <sup>3</sup> , 75 ppm TWA: 103 mg/m <sup>3</sup> , 25 ppm Sk
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**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

**Respiratory Protection:**

Use a Safe Work Australia approved vapour respirator with filter type ak-p 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:**

Elbow-length PVC gloves, cotton overall buttoned to the neck and wrist, safety boots and a washable hat. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 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>	Amber coloured
<b>Odour:</b>	Aromatic solvent odour
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	6 - 7
<b>Melting point/freezing point:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	100 °C
<b>Flammability:</b>	Product is not flammable.
<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>Relative Density:</b>	1.073 (water = 1)
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Partly miscible. Forms an emulsion with water.

### 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.

(Contd. on page 5)



# Safety Data Sheet

according to WHS Regulations

Printing date 30.05.2022

Revision: 30.05.2022

**Product Name: 4FARMERS OXYFLUORFEN 240 EC HERBICIDE**

(Contd. of page 4)

**Incompatible Materials:** Strong oxidising agents, acids and strong alkalis.**Hazardous Decomposition Products:**

Combustion products include oxides of carbon and nitrogen, phosgene, hydrogen chloride and hydrogen fluoride.

## 11 Toxicological Information

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****872-50-4 N-methyl-2-pyrrolidone**

Oral	LD <sub>50</sub>	3914 mg/kg (rat)
Dermal	LD <sub>50</sub>	8000 mg/kg (rabbit)

**42874-03-3 Oxyfluorfen**

Oral	LD <sub>50</sub>	5000 mg/kg (rat) >5000 mg/kg (dog)
Dermal	LD <sub>50</sub>	>10000 mg/kg (rabbit)
Inhalation	LC <sub>50</sub> /4 h	>5.4 mg/l (rat)

**Acute Health Effects****Inhalation:**

Inhalation of vapour while handling the concentrate is irritating to the respiratory tract and may cause headaches, dizziness and other central nervous system effects.

**Skin:** May cause skin irritation.**Eye:** May cause eye irritation.**Ingestion:**

The concentrate is of low toxicity if ingested. May be fatal if swallowed and enters airways. If aspirated into the lungs from vomiting or swallowing, the presence of solvent may result in chemical pneumonitis or other lung damage.

**Skin Corrosion / Irritation:** Causes skin irritation.**Serious Eye Damage / Irritation:** Causes serious eye irritation.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**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:**

May damage fertility or the unborn child.

N-Methyl-2-pyrrolidone is classified by Safe Work Australia as Toxic to Reproduction Category 2.

**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:** May be fatal if swallowed and enters airways.**Chronic Health Effects:**

Prolonged contact with the concentrate may cause defatting of the skin and dermatitis.

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

(Contd. on page 5)



## Safety Data Sheet

according to WHS Regulations

Printing date 30.05.2022

Revision: 30.05.2022

**Product Name: 4FARMERS OXYFLUORFEN 240 EC HERBICIDE**

(Contd. of page 5)

**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for oxyfluorfen for a human is 0.025 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 2.5 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: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2017).

### 12 Ecological Information

**Ecotoxicity:** Oxyfluorfen is not toxic to birds or bees.

**Aquatic toxicity:****42874-03-3 Oxyfluorfen**

LC <sub>50</sub> /48 h	1.5 mg/l (daphnia)
LC <sub>50</sub> /96 h	0.2 mg/l (bluegill)
	0.41 mg/l (trout)

**Persistence and Degradability:**

Oxyfluorfen has high persistence in water/soil. N-Methyl-2-pyrrolidone has low persistence in water/soil.

**Bioaccumulative Potential:** Oxyfluorfen and N-Methyl-2-pyrrolidone have low bioaccumulation potential.

**Mobility in Soil:** Oxyfluorfen has low mobility. N-Methyl-2-pyrrolidone has high mobility.

### 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**

UN 3082

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).

UN3082

**IMDG, IATA**

**Proper Shipping Name**  
**ADG, IMDG, IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (Oxyfluorfen)

**Dangerous Goods Class**  
**ADG Class:**

9 Miscellaneous dangerous substances and articles.

**Packing Group:**  
**ADG, IMDG, IATA**

III

**Marine pollutant:**

Yes  
Symbol (fish and tree)

**EMS Number:**

F-A,S-F

**Hazchem Code:**

.3Z

**Special Provisions:**

274, 331, 335, 375, AU01

(Contd. on page 7)



## Safety Data Sheet

according to WHS Regulations

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Revision: 30.05.2022

**Product Name: 4FARMERS OXYFLUORFEN 240 EC HERBICIDE**

(Contd. of page 6)

<b>Limited Quantities:</b>	5 L
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P001, IBC03, LP01
<b>Packagings &amp; IBCs - Special Packing Provisions:</b>	PP1
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T4
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	TP1, TP29

### 15 Regulatory information

**Australian Inventory of Chemical Substances:**

64742-94-5	Solvent naphtha (petroleum), heavy aroma.
42874-03-3	Oxyfluorfen
872-50-4	N-methyl-2-pyrrolidone

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**  
Poisons Schedule: 5

### 16 Other information

**Date of Preparation or Last Revision:** 30.05.2022**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 percent  
LD<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  
Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2  
Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A  
Toxic To Reproduction 1B: Reproductive toxicity – Category 1B  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aspiration Hazard 1: Aspiration hazard – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1  
Aquatic Acute 2: Hazardous to the aquatic environment, short-term (Acute). Category 2  
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

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

Section 2 - Hazard(s) Identification, heading "Hazardous Nature".  
Section 5 - Fire Fighting Measures, heading "Specific Hazards Arising from the Chemical".  
Section 9 - Physical and Chemical Properties, heading "Flammability".  
Section 11 - Toxicological Information, heading "Additional toxicological information".

**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 - February 2016"

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