

Version 2.0

Creation Date: 19.01.2023

Revision Date: 19.01.2028

## 1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** LAWNHUB NSFW SELECTIVE HERBICIDE

**Recommended Use of the Chemical and Restriction on Use:** For the control of certain broadleaf weeds in turf as specified in the direction for use.

**Details of Manufacturer or Importer:**

TheLawnhub Pty Ltd  
20 King William St,  
Kent Town SA 5067

**Phone Number:** (08) 8321 8400

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

## 2. HAZARDS IDENTIFICATION

**Hazardous Nature:**

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



corrosion

Eye Dam. 1 H318 Causes serious eye damage.



environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

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



Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

**Signal Word** Danger

**Hazard Statements**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H410 Very 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.

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

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).

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

P337+P313 If eye irritation persists: Get Medical advice/attention.

P330 Rinse mouth.

P391 Collect spillage.



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P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P310 Immediately call a POISON CENTER/doctor.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/container in accordance with local/regional/national regulations.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

#### Chemical Characterization: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

#### Hazardous Components:

Hazardous Components:		
94-74-6	MCPA (ISO)	30%
	Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315	
1702-17-6	Clopyralid (ISO)	2%
	Eye Dam. 1, H318	
83164-33-4	Diflufenican	1.5%
	Aquatic Chronic 3, H412	

### 4. FIRST AID MEASURES

#### Inhalation:

If inhaled, move 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 eye and under eyelids cautiously with water for at least 15 minutes. Seek medical attention if eye irritation or redness persists.

#### Ingestion:

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

#### Information for Doctor:

Acute toxic reactions are rare. The by-product of production, dioxin, may be implicated in subacute features such as hepatic enlargement, chloracne, neuromuscular symptoms and deranged porphyrin metabolism.

Large intentional overdoses result in coma, metabolic acidosis, myalgias, muscle weakness, elevated serum creatine kinase, myoglobinuria, irritation of the skin, eyes, respiratory tract and gut and mild renal and hepatic dysfunction.

Several cases of sensorimotor peripheral neuropathies have been associated with chronic dermal exposure to 2,4-D. For acute exposures the usual methods of gut and skin contamination (lavage, charcoal, cathartic) are recommended in the first several hours. Alkalisiation of the urine and generous fluid replacement have the added benefit of treating any myoglobinuria present. Monitor metabolic acidosis, hyperthermia, hyperkalaemia, myoglobinuria and hepatic/renal dysfunction. for 2,4- dichlorophenoxyacetic acid (2,4-D) and its derivatives Gastric lavage if there are no signs of impending convulsions.

#### Symptoms Caused by Exposure:

Systemic symptoms: Cough, shortness of breath, nausea, vomiting, diarrhoea, abdominal pain, fever, tachycardia, low blood pressure, circulatory collapse, convulsions and coma.

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## **5 . FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Water, 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:**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

## **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.

## **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 heat and direct sunlight. 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.



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**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>	Viscous liquid
<b>Colour:</b>	Light brown
<b>Odour:</b>	Slight sweet odour
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	9-10
<b>Melting point/Melting range:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	No information available
<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>Relative Density at 20 °C:</b>	1.17
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	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:** Extremes of temperature, sparks, open flames, hot surfaces and direct sunlight.

**Incompatible Materials:** Strong oxidising agents.

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

## 11 . TOXICOLOGICAL INFORMATION

**Toxicity:**

LD <sub>50</sub> /LC <sub>50</sub> Values Relevant for Classification:		
94-74-6 MCPA (ISO)		
Oral	LD <sub>50</sub>	900-1160 mg/kg (rat)
Dermal	LD <sub>50</sub>	>4000 mg/kg (rat)
Inhalation	LC <sub>50</sub> /4h	>6.36 mg/l (rat)
1702-17-6 Clopyralid (ISO)		
Oral	LD <sub>50</sub>	2675-3738 mg/kg (rat)
Dermal	LD <sub>50</sub>	>2000 mg/kg (rabbit)
Inhalation	LC <sub>50</sub> /4 h	>0.38 mg/l (rat)

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83164-33-4 Diflufenican		
Oral	LD <sub>50</sub>	>2000 mg/kg (rat)
Dermal	LD <sub>50</sub>	>2000 mg/kg (rat)
Inhalation	LC <sub>50</sub> /4 h	>2.34 mg/l (rat)

**Acute Health Effects**

**Inhalation:** May cause respiratory irritation.

**Skin:** Causes skin irritation.

**Eye:** Causes serious eye damage.

**Ingestion:** Harmful if swallowed.

**Skin Corrosion / Irritation:** Causes skin irritation.

**Serious Eye Damage / Irritation:** Causes serious eye damage.

**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:**

Chlorophenoxy herbicides (MCPA) are classified by IARC as Group 2B - Possibly carcinogenic to humans.  
Chlorophenoxy herbicides

**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

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

**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for MCPA for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.1 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: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', June 2014).

The Australian Acceptable Daily Intake (ADI) for clopyralid for a human is 0.5 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 50 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: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', June 2014).

The Australian Acceptable Daily Intake (ADI) for diflufenican for a human is 0.2 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 16.3 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: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', June 2014).

**12 . ECOLOGICAL INFORMATION**

**Ecotoxicity:** Clopyralid and diflufenican are non toxic to bees.

**Aquatic toxicity:** Very Toxic to aquatic life with long lasting effects.



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<b>1702-17-6 Clopyralid (ISO)</b>	
EC <sub>50</sub> /48h	225 mg/l (daphnia)
EC <sub>50</sub> /96 h	6.9 mg/l (senastrum capricornutum)
LC <sub>50</sub> /96 h	103.5 mg/l (rainbow trout)
<b>83164-33-4 Diflufenican</b>	
LC <sub>50</sub> /48h	10 mg/l (daphnia)
LC <sub>50</sub> /96h	56-100 mg/l (rainbow trout)
<b>94-74-6 MCPA (ISO)</b>	
LC <sub>50</sub>	>100 mg/l (daphnia)
LC <sub>50</sub> /96 h	232 mg/l (rainbow trout)

**Persistence and Degradability:** Soil half-life for diflufenican is 15 to 30 weeks. MCPA residual activity in soil is 12 to 16 weeks.

**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 classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail (IBC or any other receptacle not exceeding 500 kg or 500 L, according to AU01)

#### IMDG, IATA

UN3082

### Proper Shipping Name

#### IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT

#### IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

### Dangerous Goods Class

#### IMDG Class:

9 Miscellaneous dangerous substances and articles.

### Packing Group:

#### IMDG, IATA

III

**Marine pollutant:** Yes

#### EMS Number:

F-A,S-F

**Hazchem Code:** 3Z

## 15 . REGULATORY INFORMATION

### Australian Inventory of Chemical Substances:

94-74-6	MCPA (ISO)
1702-17-6	Clopyralid (ISO)
83164-33-4	Diflufenican



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**Product Name: LAWNHUB NSFV SELECTIVE HERBICIDE**

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

## 16 . OTHER INFORMATION

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**Last Revision of SDS:** 19-01-2023

### Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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)

### 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 - July 2020"

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Thelawnhub 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 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.