

### 1. IDENTIFICATION

<b>Product name:</b>	<b>CLEFANDIM 360 EC Herbicide</b>
<b>Other means of identification:</b>	Clethodim
<b>Other means of identification:</b>	APVMA No. 89747
<b>Recommended use of the chemical and restrictions on use:</b>	Herbicide
<b>Details of manufacturer or supplier:</b>	YIFAN AUSTRALIA PTY LTD. SUITE 19, 1 LAKESIDE ROAD, EASTWOOD NSW 2122, AUSTRALIA Web: <a href="http://www.yifan-au.com">www.yifan-au.com</a> Email: <a href="mailto:sales10@chinayifan.com">sales10@chinayifan.com</a>
<b>Emergency telephone:</b>	Poisons Information Centre 13 11 26 (24 hours)

### 2. HAZARDS IDENTIFICATION

<b>Classification of the hazardous chemical:</b>	Flammable liquids Category 4 Aspiration Hazard Category 1 Aquatic Chronic Category 3
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**Label elements, including precautionary statements:** **SIGNAL WORD:** Danger

**Hazard Statement(s):**

H227 Combustible liquid.  
H304 May be fatal if swallowed and enters airways.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statement(s):****Prevention:**

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. - No smoking.  
P261 Avoid breathing vapour/ spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P331 Do NOT induce vomiting.  
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
P370+P378 In case of fire: Use dry sand or cement to extinguish.  
P370+P378 In case of fire: Use alcohol resistant foam, carbon dioxide or dry powder for extinction.

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### Storage:

P405 Store locked up.

### Disposal:

P501: Dispose of contents/container as per container label, in accordance with local/state/territory government regulations.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion (%)
Solvent Naphtha (Petroleum), Heavy Aromatic	64742-94-5	40-50
Clethodim	99129-21-2	36

Other components are not considered hazardous in this formulation and therefore are not required to be disclosed according to the WHS Regulations.

## 4. FIRST AID MEASURES

Speed in treatment is essential. If poisoning occurs, contact a Poisons Information Centre. Phone Australia 131126 or a doctor. Have this SDS or the label with you.

### Description of necessary first aid measures:

#### Inhalation:

First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

#### Skin contact:

Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.

#### Eye contact:

No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

#### Ingestion:

If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

#### First aid facilities:

Eyewash and normal washroom facilities.

#### Medical attention and special treatment:

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

#### Suitable extinguishing equipment:

Use fire-extinguishing media suitable for the surrounding fire. Extinguish with alcohol-resistant foam, carbon dioxide or dry powder

#### Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

#### Specific hazards arising from the chemical:

Product will decompose when burnt and will emit toxic fumes. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or smoke.

#### Special protective equipment and precautions for fire-fighters:

Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to Australia/New Zealand Standards AS/NZS 4967 (for clothing) AS/NZS

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1801 (for helmets), AS/NZS 4821 (for protective boots), AS/NZS 1801 (for protective gloves) will provide a basic level of protection for chemical incidents.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions/ Protective equipment:**

Wear Safe Work Australia approved respiratory protection and full protective clothing. Evacuate all nonessential 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:**

Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage

### 7. HANDLING AND STORAGE

**Precautions for safe handling:**

Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

**Conditions for safe storage, including any compatibilities:**

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

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure control measures:**

No exposure limits have been assigned by Safe Work Australia to the ingredients in this product.

**Biological monitoring:**

No biological limit allocated for the product or any of its ingredients. No biological monitoring is required.

**Control banding:**

Not available.

**Engineering controls:**

Ensure adequate ventilation of the working area.

**Individual protection measures, such as Personal Protective Equipment (PPE):**

See container label safety directions. The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Observe good standards of hygiene and cleanliness. Always wash hands, arms and face thoroughly with soap and water before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment with detergent and warm water before storage or re-use.

**Respiratory protection:**

Use an approved mixed type organic vapour / particulate respirator (types A and 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.

**Eye and face protection:**

Safety glasses/goggles with side shield protection should be worn as a general precaution. Consult AS/NZS 1336 and AS/NZS 1337 for further

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<b>Skin protection:</b>	information. Chemical-resistant gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered. Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.
<b>Thermal hazards:</b>	No further relevant information available.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Colour:</b>	Light yellow to brown
<b>Odour:</b>	Characteristic odour
<b>pH:</b>	4.0 – 7.0
<b>Specific gravity:</b>	0.9992±0.05
<b>Melting point/Freezing point:</b>	No data available
<b>Boiling point/range:</b>	No data available
<b>Flammability:</b>	No data available
<b>Lower and upper explosion limit/flammability limit:</b>	No data available
<b>Flash point:</b>	>61°C
<b>Evaporation point:</b>	No data available
<b>Vapour pressure:</b>	No data available
<b>Density and/or relative density</b>	No data available
<b>Vapour density:</b>	No data available
<b>Solubility:</b>	No data available
<b>Partition coefficient: n- octanol/water</b>	No data available
<b>Auto-ignition temperature:</b>	Non- explosive
<b>Decomposition temperature:</b>	No data available
<b>Kinematic viscosity:</b>	No data available
<b>Persistent foaming:</b>	60mL max
<b>Emulsion Characteristics :</b>	Max 2 mL cream, trace of oil after 30 minutes
<b>Water:</b>	0.4% max

### 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	There are no known reactivity hazards associated with this product.
<b>Chemical stability:</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
<b>Possibility of hazardous reactions:</b>	No information available.
<b>Conditions to avoid:</b>	There are no known conditions that are likely to result in a hazardous situation.
<b>Incompatible materials:</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
<b>Hazardous decomposition products:</b>	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

### 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	Based on available data the classification criteria are not met.
<b>Skin corrosion/irritation:</b>	Based on available data the classification criteria are not met.
<b>Eye damage/irritation:</b>	Based on available data the classification criteria are not met.

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The information presented below is based on the toxicity data for the constituent, Clethodim:

<b>Respiratory or skin sensitisation:</b>	No specific test data are available.
<b>Germ cell mutagenicity:</b>	Based on available data the classification criteria are not met.
<b>Carcinogenicity:</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity:</b>	No reproductive toxicity was observed in a study with rats exposed to clethodim technical for two generation.
<b>STOT-single exposure:</b>	Not classified as a specific target organ toxicant after a single exposure.
<b>STOT-repeated exposure:</b>	Not classified as a specific target organ toxicant after a repeated exposure.
<b>Aspiration hazard:</b>	May be fatal if swallowed and enters airways.

### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Non-toxic to bird life. Non-toxic to bees. LD50 >100 µg/bee
<b>Aquatic toxicity :</b>	Harmful to aquatic life with long lasting effects.
	CAS: 99129-21-2 Clethodim LC50/96 h 120 mg/l (bluegill) 67 mg/l (rainbow trout) LC50/48 h 120 mg/l (daphnia) EC50/120hr 57.8 mg/l (algae)
<b>Persistence/Degradability:</b>	Not persistent in soils. Clethodim half-life in soil: 3 days. Persistent in the aquatic environment. Half-life in water: 128 days. Half-life in sediments: 214 days
<b>Bioaccumulative potential:</b>	Bioaccumulation is not expected to occur.
<b>Mobility in soil:</b>	No data available.

### 13. DISPOSAL CONSIDERATIONS

<b>General information :</b>	The generation of waste should be minimised or avoided wherever possible.
<b>Disposal methods:</b>	Triple or preferably pressure rinse containers before disposal. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

### 14. TRANSPORT INFORMATION

<b>UN Number:</b>	Not regulated
<b>Proper Shipping Name:</b>	Not regulated
<b>Dangerous Goods Class:</b>	Not regulated
<b>Packing Group:</b>	Not regulated

### 15. REGULATORY INFORMATION

<b>Poison schedule (SUSMP):</b>	Schedule 5
<b>APVMA approval no.:</b>	89747

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**AICIS:** Listing in the AICIS is not required for products regulated by the APVMA.

### 16. OTHER INFORMATION

<b>General information:</b>	None
<b>Issue number:</b>	002
<b>Issue date:</b>	16 May 2025
In any event, the review and, if necessary, the re-issue of an SDS shall be no longer than 5 years after the last date of issue.	
<b>Reason(s) for issue:</b>	First issue
<b>Key abbreviations or acronyms used:</b>	ADG Code - Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition) AICIS – Australian Industrial Chemicals Introduction Scheme (formerly NICNAS) AIIC - Australian Inventory of Industrial Chemicals AgVet Code Act 1994 – Agricultural and Veterinary Chemicals Code Act 1994 APVMA Agricultural Pesticides and Veterinary Medicines Australia GHS - Globally Harmonised System of Classification and Labelling of Chemicals (7th revised edition) IARC - International Agency for Research on Cancer Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (June 2023) LD50 or LC50 – Estimated lethal dose / concentration to kill 50% of the population/sample. STEL - Short term exposure limit means the average airborne concentration of a substance calculated over a 15 minute period. The STEL should not be exceeded at any time during a normal eight hour working day. STOT – Specific Target Organ Toxicity SUSMP - Standard for the Uniform Scheduling of Medicines & Poisons SWA - Safe Work Australia, formerly ASCC and NOHSC TGA – Therapeutic Goods Australia TWA - Time-weighted average means the average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week. WHS – Workplace Health and Safety

The physical values and properties described in this SDS are typical values based on scientific literature and material produced to date, and are believed to be reliable. The supplier, YIFAN BIO-TECH provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. The information is supplied upon the condition that the persons receiving information will make their own determination as to the suitability for their purposes prior to use of this product. Due care should be taken to ensure that the use of this product and its disposal is in compliance with all relevant Federal, State and Local Government regulations.

End of SDS