

1. IDENTIFICATION

Product identifier:	GLAIVE 100 EC HERBICIDE
Other means of identification:	Pinoxaden Cloquintocet-mexyl
Recommended use of the chemical and restrictions on use:	Herbicide
Details of distributor:	YIFAN AUSTRALIA PTY LTD. SUITE 19, 1 LAKESIDE ROAD, EASTWOOD NSW 2122, AUSTRALIAWeb: www.yifan-au.com Email: sales10@chinayifan.com
Emergency phone number:	Poisons Information Centre 13 11 26 (24 hours)

2. HAZARDS IDENTIFICATION

Classification of the hazardous chemical:	Flammable liquids – Category 4 Eye damage/irritation – Category 2A Reproductive toxicity – Category 1B Aspiration hazard – Category 1
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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.
H319 Causes serious eye irritation.
H360 May damage fertility or the unborn child.

Supplemental Hazard Statements:

AUH066 Repeated exposure may cause skin dryness or cracking.

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

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

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.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P331 Do NOT induce vomiting.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 Store in a well-ventilated place.
 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 (%)
Pinoxaden	243973-20-8	10.3
Cloquintocet-mexyl	99607-70-2	2.6
Calcium dodecylbenzene sulfonate	26264-06-2	≤1.0 – <10.0
N-Methyl-2-pyrrolidinone	872-50-4	10.0 – <30.0
Aromatic hydrocarbon, <1% naphthalene	Not Assigned	≤30.0 – <60.0
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:

General advice: Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.

Inhalation: Move the victim to fresh air.
 If breathing is irregular or stopped, administer artificial respiration.
 Keep patient warm and at rest.
 Call a physician or poison control centre immediately.

Skin contact: Take off all contaminated clothing immediately.
 Wash off immediately with plenty of water.
 If skin irritation persists, call a physician.

Eye contact: Wash contaminated clothing before re-use.
 Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
 Remove contact lenses.
 Immediate medical attention is required.

Ingestion: If swallowed, seek medical advice immediately and show this container or label.

First aid facilities:	Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.
Symptoms caused by exposure:	Eyewash, safety shower and normal washroom facilities. Aspiration may cause pulmonary oedema and pneumonitis.
Medical attention and special treatment:	There is no specific antidote available. Treat symptomatically. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

5. FIRE FIGHTING MEASURES

Suitable extinguishing equipment:	Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Extinguishing media - large fires Alcohol-resistant foam
Unsuitable extinguishing media :	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health. Flash back possible over considerable distance.
Specific extinguishing methods:	Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.
Special protective equipment and precautions for firefighters:	Wear full protective clothing and self-contained breathing apparatus.
Hazchem code:	•3Z

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Refer to protective measures listed in sections 7 and 8. Keep people away from and upwind of spill/leak. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition. Pay attention to flashback.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with skin and eyes. When using do not eat, drink or smoke. Use only in an area containing flame proof equipment. Take precautionary measures against static discharges.
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Conditions for safe storage, including any compatibilities: Keep containers tightly closed in a dry, cool and well ventilated place.
Keep out of the reach of children.
Keep away from combustible material.
Keep in an area equipped with sprinklers.
Keep away from food, drink and animal feeding stuffs.
No smoking.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure control measures: The exposure standard for the constituent, 1-Methyl-2-pyrrolidone:
TWA = 80 mg/m³ (20 ppm)
STEL = Not set.
As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

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: Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.
The extent of these protection measures depends on the actual risks in use.
Maintain air concentrations below occupational exposure standards.
Where necessary, seek additional occupational hygiene advice.

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.

Eye and face protection: Tightly fitting safety goggles
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

Skin protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Remove and wash contaminated clothing before re-use.
Wear as appropriate:
Impervious clothing

Respiratory protection: No personal respiratory protective equipment normally required.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards: No further relevant information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Colour: Light yellow to brown

Odour: Characteristic odour

pH: 3.0 – 7.0

Melting point/Freezing point: No data available

Boiling point/range: No data available

Flammability: No data available

Lower and upper explosion limit/flammability limit:	No data available
Flash point:	No data available
Evaporation point:	No data available
Vapour pressure:	No data available
Density and/or relative density	No data available
Relative vapour density:	No data available
Solubility:	No data available
Partition coefficient: n- octanol/water	No data available
Auto-ignition temperature:	Non- explosive
Decomposition temperature:	No data available
Kinematic viscosity:	No data available
Persistent foaming:	60mL max

10. STABILITY AND REACTIVITY

Reactivity:	None reasonably foreseeable.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	No decomposition if used as directed.
Incompatible materials:	None known.
Hazardous decomposition products:	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

No data is available on the formulated product. Information on the individual hazardous ingredients is provided below.

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

Acute toxicity	Oral: >5000 mg/kg (LD50, rat) Dermal: >2000 mg/kg (LD50, rat) Inhalation: 4.63 mg/l, 4 h (dusts/mists) (LC50, rat)
Skin corrosion/irritation:	Irritating to skin.
Serious eye damage/irritation:	Irritation to eyes, reversing within 21 days.
Respiratory or skin sensitisation:	Classified as a skin sensitizer, sub-category 1A. Does not cause respiratory sensitisation.
Germ cell mutagenicity:	Animal testing did not show any mutagenic effects.
Carcinogenicity:	No evidence of carcinogenicity in animal studies.
Reproductive toxicity:	Considered to be toxic to reproduction according to available data.
Specific Target Organ Toxicity (STOT)—single exposure:	Classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
Specific Target Organ Toxicity (STOT)—repeated exposure	Not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard.	Not expected to be an aspiration hazard according to available information.

The information presented below is based on the toxicity data for the constituent, Cloquintocet-mexyl:

Acute toxicity	Oral: >5000 mg/kg (LD50, rat) Dermal: >2000 mg/kg (LD50, rat) Inhalation: >0.935 mg/l, 4 h (dusts/mists) (LC50, rat)
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Skin corrosion/irritation:	No skin irritation.
Serious eye damage/irritation:	No eye irritation.
Respiratory or skin sensitisation:	May cause sensitisation by skin contact (guinea pig).
Germ cell mutagenicity:	Animal testing did not show any mutagenic effects.
Carcinogenicity:	No evidence of carcinogenicity in animal studies.
Reproductive toxicity:	No toxicity to reproduction.
Specific Target Organ Toxicity (STOT)—single exposure:	Not classified as specific target organ toxicant, single exposure.
Specific Target Organ Toxicity (STOT)—repeated exposure	Classified as specific target organ toxicant, repeated exposure, category 2.
Aspiration hazard.	Not expected to be an aspiration hazard according to available information.

12. ECOLOGICAL INFORMATION

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

Ecotoxicity:	Fish (96h): 10.3 mg/L (LC50, <i>Oncorhynchus mykiss</i> (rainbow trout)) Crustacea (48h): 52 mg/L (EC50, <i>Daphnia magna</i> (water flea)) Algae (72h): 3.6 mg/L (ErC50, <i>Raphidocelis subcapitata</i> (freshwater green alga))
Persistence and degradability:	Not persistent. Rapidly degradable.
Bioaccumulative potential:	Low bioaccumulation potential.
Mobility in soil:	Moderately mobile in soils.
Other adverse effects:	No other effects to be mentioned.

The information presented below is based on the toxicity data for the constituent, Cloquintocet-mexyl:

Ecotoxicity:	Fish (96h): >0.97 mg/L (LC50, <i>Oncorhynchus mykiss</i> (rainbow trout)), 0.102 mg/L (LC50, <i>Gobiocypris rarus</i> (rare gudgeon)) Crustacea (48h): >0.82 mg/L (EC50, <i>Daphnia magna</i> (water flea)) Algae (72h): 2.2 mg/L (ErC50, <i>Desmodesmus subspicatus</i> (green algae))
Persistence and degradability:	Not persistent. Not readily biodegradable.
Bioaccumulative potential:	Does not bioaccumulate. Partition coefficient: n-octanol/water: log Pow: 5.24 (25 °C)
Mobility in soil:	Immobile
Other adverse effects:	No other effects to be mentioned.

13. DISPOSAL CONSIDERATIONS

Disposal methods:	Non-returnable containers: Triple rinse containers. Add rinsings to spray tank If recycling, replace cap and return clean containers to recycler or designated collection point. Containers marked with the drumMUSTER container logo can be taken to a drumMUSTER collection site (02 6206 6868, www.drummuster.org.au). Empty containers can be landfilled, when in accordance with the local regulations. If no landfill is available, bury the containers below 500 mm in a disposal pit
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specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Returnable containers:

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

14. TRANSPORT INFORMATION

Road and rail transport:	Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to the provisions of the Australian Code for the Transport of Dangerous Goods by Road and Rail when transported by road or rail in; (a) packagings that do not incorporate a receptacle exceeding 500 kg(L); (b) or IBCs.
Marine transport:	Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; MARINE POLLUTANT UN Number: 3082 Proper Shipping Name or Technical Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Transport Hazard Class: 9 Packing Group Number: III Hazchem Code: •3Z IMDG EMS Fire: F - A IMDG EMS Spill: S - F Environmental hazards: Yes. Special precautions for users: Not available. Additional Information: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.
Air transport:	IATA provision SP A197: Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code when transported air in; packages that have inner packages (plastic bottles, glass bottles, plastic bags) of 5 L for UN3082 and 5 kg for UN3077 or less. UN Number: 3082 Proper Shipping Name or Technical Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Transport Hazard Class: 9 Packing Group Number: III Hazchem Code: •3Z Special precautions for users: Not available. Additional Information: IATA Special Provision A197: when transported in sizes of ≤ 5 L or ≤ 5 kg per packaging (inner or single) are not subject to the code.

15. REGULATORY INFORMATION

Safety, health and environmental regulations:	
Poison schedule (SUSMP):	Schedule 5
APVMA approval no.:	94073
AICIS:	Listing in the AICS is not required for products regulated by the APVMA.

16. ANY OTHER RELEVANT INFORMATION

General information:	None
Issue number:	002
Issue date:	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.	
Reason(s) for issue:	First issue
Literature references:	See respective sections for information if available.
Key abbreviations or acronyms used:	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