

# SAFETY DATA SHEET

PRODUCT NAME Imtrade Cease Herbicide

**APVMA Product Code:** 64710

#### 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name IMTRADE AUSTRALIA PTY LTD

Address 17 Ocean Street, Kwinana, Western Australia, AUSTRALIA, 6167

**Telephone** 1800 171 799 **Fax** 1800 171 788

**Emergency** In a Transport Emergency Dial 000 – Police or Fire Brigade

Web site http://www.imtrade.com.au

**Product Use:** Agricultural herbicide for use as described on the product label.

Creation Date: June, 2010

This version issued: March, 2022 and is valid for 5 years from this date.

**Product type:** Glufosinate ammonium is an organophosphorus-phosphinic acid derivative.

## **SECTION 2 - HAZARDS IDENTIFICATION**

#### **Statement of Hazardous Nature**

This product is classified as: Hazardous according to the criteria of SWA.

Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

SUSMP Classification: S5

ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.

**UN Number:** None allocated



# **GHS Signal word: DANGER**

Acute Toxicity Oral - Category 4
Acute Toxicity Dermal - Category 4
Serious Eye Irritation - Category 2/2A
Acute Toxicity Inhalation - Category 4
Reproductive Toxicity - Category 1

Specific Target Organ Toxicity - Repeated Exposure - Category 2

#### **HAZARD STATEMENTS:**

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H360: May damage fertility or the unborn child.

H373: May cause damage to organs through prolonged or repeated exposure.

### **PRECAUTIONARY STATEMENTS:**

#### **PREVENTION**

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe fumes, mists, vapours or spray.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash contacted areas thoroughly after handling.

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

P271: Use only outdoors or in a well ventilated area.

P280: Wear protective gloves, protective clothing and eye or face protection.

#### **RESPONSE**

P314: Get medical advice or attention if you feel unwell.

P363: Wash contaminated clothing before reuse.

## **SAFETY DATA SHEET**

Issued by: Imtrade Australia Pty Ltd Phone: 1800 171 788

Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)

**Product Name: Imtrade Cease Herbicide** Page: 2 of 6

SDS Date: March, 2022

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice.

P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog.

#### **STORAGE**

P404: Store in a closed container.

P410: Protect from sunlight.

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

#### **DISPOSAL**

P501: Dispose of contents and containers as specified on the registered label.

### **Emergency Overview**

Physical Description & Colour: Mobile liquid.

Odour: Slightly pungent odour.

Major Health Hazards: may cause serious irritation to eyes, may impair fertility, harmful by inhalation, in contact with skin, and if swallowed, possible risk of harm to the unborn child.

#### **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients	CAS No	Conc,%	TWA (mg/m³)	STEL (mg/m³)
Glufosinate-ammonium	77182-82-2	200g/L	not set	not set
Other non hazardous ingredients	secret	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

#### **SECTION 4 - FIRST AID MEASURES**

#### **General Information:**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

**Inhalation:** No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Skin Contact: Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard.

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. 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.

### **SECTION 5 - FIRE FIGHTING MEASURES**

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

This product is likely to decompose only after heating to dryness, followed by further strong heating.

Fire decomposition products from this product are likely to be irritating if inhaled.

**Extinguishing Media:** Not Combustible. Use extinguishing media suited to burning materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flammability Class: Does not burn.

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal

#### SAFETY DATA SHEET

Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)

Issued by: Imtrade Australia Pty Ltd

Phone: 1800 171 788

Product Name: Imtrade Cease Herbicide Page: 3 of 6

SDS Date: March, 2022

Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include PVC, Nitrile. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Otherwise, not normally necessary.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

#### **SECTION 7 - HANDLING AND STORAGE**

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

#### **SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

## SWA Exposure Limits TWA (mg/m³) STEL (mg/m³)

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

The ADI for Glufosinate-ammonium is set at 0.02mg/kg/day. The corresponding NOEL is set at 2.1mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, June 2014.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

**Eye Protection:** Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

**Skin Protection:** Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

**Protective Material Types:** We suggest that protective clothing be made from the following materials: PVC, nitrile. **Respirator:** Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above. Otherwise, not normally necessary.

Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being used.

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:**

Physical Description & colour: Mobile liquid.

**Odour:** Slightly pungent odour.

**Boiling Point:** Approximately 100°C at 100kPa.

Flash point:
Upper Flammability Limit:
Lower Flammability Limit:
Does not burn.
Does not burn.
Does not burn.

**Autoignition temperature:** Not applicable - does not burn.

**Freezing/Melting Point:** Approximately 0°C. **Volatiles:** Water component.

#### SAFETY DATA SHEET

Issued by: Imtrade Australia Pty Ltd Phone: 1800 171 788

Product Name: Imtrade Cease Herbicide
Page: 4 of 6

SDS Date: March, 2022

**Vapour Pressure:** 2.37 kPa at 20°C (water vapour pressure).

Vapour Density: No data.

Specific Gravity: 1.11 approx

Water Solubility: Completely soluble in water.

pH: No data. Expected to be neutral.

Volatility: No data.
Odour Threshold: No data.
Evaporation Rate: No data.

**Coeff Oil/water Distribution**: <0.1 (pH 7, 22°C) (log P octanol/water)

Particle Characteristics: Not applicable for liquids.

#### **SECTION 10 – STABILITY AND REACTIVITY**

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. **Incompatibilities:** strong oxidising agents.

**Fire Decomposition:** This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form oxides of phosphorus and other phosphorus compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**Polymerisation:** This product will not undergo polymerisation reactions.

#### **SECTION 11 - TOXICOLOGICAL INFORMATION**

**Local Effects:** 

**Target Organs:** There is no data to hand indicating any particular target organs.

## **Classification of Hazardous Ingredients**

Ingredient
Glufosinate-ammonium

Health Hazard Statement Codes H360FD, H332, H312, H302, H373

- Reproductive Toxicity Category 1B
- Acute Toxicity Category 4
- Specific Target Organ Toxicity (Repeated Exposure) Category 2

#### Product as supplied:

 $LD_{50}$  Oral, Rat 1910 (female)-2170 (male) mg/kg  $LD_{50}$  Dermal, Rat = 1400mg/kg  $LC_{50}$  Inhalation, Rat = 3.22 (male)-4.31 (female) mg/L/4hr

In some studies, sub-lethal doses of glufosinate ammonium was found to cause abnormalities in the development of embryos in mammals both *in vitro* and *in vivo*. Deformities in the brain were the main finding of these studies:

- Mouse embryos exposed to glufosinate in vitro developed apoptosis (fragmentation of the cells leading to cell
  death) in the neuroepithelium of the brain. An earlier study found that all the embryos in the treated groups
  had specific defects including overall growth retardation, increased death of embryos, hypoplasia (incomplete
  development) of the forebrain at 10 mg/mL, and cleft lips at 20 mg/mL.
- The effects on embryos after exposure of pregnant rats to glufosinate during the time of neurogenesis (central nervous system development) was determined. Pregnant rats were injected subcutaneously with 3 or 5 mg/kg of glufosinate once daily from days 13-20 of gestation. The results suggested that glufosinate exposure at a crucial stage in pregnancy causes a decrease in the number of glutamate receptors in offspring.

## **Potential Health Effects**

## Inhalation:

**Short Term Exposure:** Available data shows that this product is harmful, but symptoms are not available. In addition product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort. **Long Term Exposure:** No data for health effects associated with long term inhalation.

#### **Skin Contact:**

**Short Term Exposure:** Available data shows that this product is harmful, but symptoms are not available. In addition product may be irritating, but is unlikely to cause anything more than mild transient discomfort.

Long Term Exposure: No data for health effects associated with long term skin exposure.

#### **SAFETY DATA SHEET**

Issued by: Imtrade Australia Pty Ltd Phone: 1800 171 788

Product Name: Imtrade Cease Herbicide
Page: 5 of 6

SDS Date: March, 2022

## **Eye Contact:**

**Short Term Exposure:** This product is a severe eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms such as swelling of eyelids and blurred vision may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment is likely to cause permanent damage.

Long Term Exposure: No data for health effects associated with long term eye exposure.

## Ingestion:

**Short Term Exposure:** Significant oral exposure is considered to be unlikely. Available data shows that this product is harmful, but symptoms are not available. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

Long Term Exposure: No data for health effects associated with long term ingestion.

## **Carcinogen Status:**

**SWA:** No significant ingredient is classified as carcinogenic by SWA. **NTP:** No significant ingredient is classified as carcinogenic by NTP. **IARC:** No significant ingredient is classified as carcinogenic by IARC.

#### **SECTION 12 - ECOLOGICAL INFORMATION**

This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

#### **Glufosinate-ammonium:**

Fish: LC<sub>50</sub> rainbow trout (Oncorhynchus mykiss): 710mg/L

LC<sub>50</sub> carp, bluegill sunfish, golden orfe: >1000mg/L

Algae: LC50 Scenedesmus subspicatus min 1000mg/L; Scenedesmus capricornutum 37mg/L

**Daphnia:** EC<sub>50</sub> 560-1000mg/L

Glufosinate-ammonium is very water soluble. It is stable hydrolytically and photolytically stable.

Rapidly degraded in surface levels of soil and water and is readily biodegradable. Not bioaccumulative.

#### **SECTION 13 - DISPOSAL CONSIDERATIONS**

**Disposal:** Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 http://www.chemclear.com.au/ and for help with the disposal of empty drums, contact DrumMuster http://www.drummuster.com.au/ where you will find contact details for your area.

### **SECTION 14 - TRANSPORT INFORMATION**

**UN Number:** This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

## **SECTION 15 - REGULATORY INFORMATION**

**AllC:** All of the significant ingredients in this formulation are compliant with AlCIS regulations.

The following ingredient: Glufosinate-ammonium, is mentioned in the SUSMP.

#### **SECTION 16 - OTHER INFORMATION**

This SDS contains only safety-related information. For other data see product literature.

#### Acronyms:

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail (7<sup>th</sup> edition)

AIIC Australian Inventory of Industrial Chemicals

SWA Safe Work Australia, formerly ASCC and NOHSC

CAS number Chemical Abstracts Service Registry Number

**Hazchem Code** Emergency action code of numbers and letters that provide information to emergency

services especially firefighters

International Agency for Research on Cancer

NOS Not otherwise specified

NTP National Toxicology Program (USA)

SUSMP Standard for the Uniform Scheduling of Medicines & Poisons

**UN Number** United Nations Number

This SDS summarises our best knowledge of the health and safety hazard information on the product, and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact Imtrade Australia Pty Ltd, or in the

## SAFETY DATA SHEET

Issued by: Imtrade Australia Pty Ltd Phone: 1800 171 788

**Product Name: Imtrade Cease Herbicide** 

Page: 6 of 6 SDS Date: March, 2022

event of an emergency, 000. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (July 2020) and GHS Revision 7 Copyright © Kilford & Kilford Pty Ltd, March, 2022.

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