

Infosafe No™ 3NU1J      Issue Date : April 2015      ISSUED by CRPCARE

Product Name **ORDRAM Herbicide**

Classified as hazardous

## 1. Identification

**GHS Product Identifier**      ORDRAM Herbicide  
**Product Code**              0648  
**Product Type**              Group J Herbicide  
**Company Name**            Crop Care Australasia Pty Ltd (ABN 53 061 362 347)  
**Address**                    Unit 17/16 Metroplex Avenue Murarrie  
                                  Queensland 4172 Australia  
**Telephone/Fax Number**    Tel: +61 7 3909 2000  
                                  Fax: +61 7 3909 2010  
**Emergency phone number**    1800 033 498 (24hr Australia)  
**Recommended use of the chemical and restrictions on use**    Post-emergence herbicide for the control of grass weeds in rice.  
**Other Information**            This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

## 2. Hazard Identification

**GHS classification of the substance/mixture**    CA2 Carcinogenicity: Category 2  
                                  TR2 Toxic to Reproduction: Category 2  
                                  RE2 STOT Repeated Exposure Category 2  
                                  GT/VT/IT 4 Acute Toxicity - Inhalation: Category 4  
                                  OT4 Acute Toxicity - Oral: Category 4  
                                  ED1 Eye Damage/Irritation: Category 1  
                                  SC-2 Skin Corrosion/Irritation: Category 2  
                                  SE-3NARC STOT Single Exposure Category 3 (narcotic)  
                                  AH1 Aspiration Hazard: Category 1  
**Signal Word (s)**              DANGER  
**Hazard Statement (s)**    H351 Suspected of causing cancer.  
                                  H361 Suspected of damaging fertility or the unborn child.  
                                  H373 May cause damage to organs through prolonged or repeated exposure.  
                                  H332 Harmful if inhaled.  
                                  H302 Harmful if swallowed.  
                                  H318 Causes serious eye damage.  
                                  H315 Causes skin irritation.  
                                  H336 May cause drowsiness or dizziness.  
                                  H304 May be fatal if swallowed and enters airways.  
**General Precautionary Statement (s)**    P101 If medical advice is needed, have product container or label at hand.  
                                  P102 Keep out of reach of children.  
                                  P103 Read label before use.  
**Pictogram (s)**              Corrosion, Exclamation mark, Health hazard



**Precautionary statement – Prevention**    P202 Do not handle until all safety precautions have been read and understood.  
                                  P281 Use personal protective equipment as required.  
                                  P260 Do not breathe vapours or spray.  
                                  P271 Use only outdoors or in a well-ventilated area.  
                                  P264 Wash hands and exposed skin thoroughly after handling.  
                                  P270 Do not eat, drink or smoke when using this product.  
                                  P280 Wear protective gloves, clothing, eye and face protection.  
**Precautionary statement – Response**    P308+P313 IF exposed or concerned: Get medical advice/attention.  
                                  P314 Get medical advice/attention if you feel unwell.  
                                  P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.



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P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P331 Do NOT induce vomiting.  
P330 Rinse mouth.

**Other Information** Poisons Schedule S7 DANGEROUS POISON

### 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Molinate	2212-67-1	960 g/L
	Kerosene	8008-20-6	<2%
	Proprietary emulsifiers mixture		0-10 %

### 4. First-aid measures

**Inhalation** Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.

**Ingestion** Rinse mouth thoroughly with water.  
Give a glass of water.  
If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

**Skin** If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water.  
Wash affected areas thoroughly with soap and water.  
If irritation persists, seek medical advice.

**Eye contact** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.  
Seek medical advice.

**First Aid Facilities** If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.

**Advice to Doctor** Treat symptomatically.

### 5. Fire-fighting measures

**Suitable extinguishing media** Avoid using large volumes of water which would spread the product.  
Water fog, foam, carbon dioxide or dry chemical.

**Hazards from Combustion** Although material is not flammable, the concentrate is combustible.  
If involved in a major fire, could evolve oxides of nitrogen or sulphur.

**Products**

**Special Protective Equipment for fire fighters** Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

**Other Information** STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

### 6. Accidental release measures

**Spills & Disposal** Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).  
Collect spilled material and waste in sealable open-top type containers for disposal.  
On-site disposal of concentrate is not acceptable.  
Dispose of at a landfill in accordance with local regulations.

**Clean-up Methods - Large Spillages** Place damaged containers in recovery bins (if available) and return to manufacturer.

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**Environmental Precautions** This product is a herbicide and spills can damage crops, pastures and desirable vegetation.  
Prevent from entering drains, waterways or sewers.

## 7. Handling and storage

**Precautions for Safe Handling** Do NOT spray in high winds.  
Follow handling procedures on the label. DO NOT breathe vapours or allow skin contact.

**Conditions for safe storage, including any incompatibilities** Store in the closed, original container in a dry, well ventilated area out of direct sunlight.  
Do not store near oxidisers.

**Other Information** Always read the label and any attached leaflet before use.

## 8. Exposure controls/personal protection

**Occupational exposure limit values** No biological exposure limit allocated.  
No exposure standard has been established for this product.

**Respiratory Protection** Do not inhale spray mist or vapours.

**Eye Protection** Wear chemical goggles.

**Personal Protective Equipment** When opening the container, preparing and using the product wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), a washable hat, elbow-length PVC gloves, goggles and a disposable mist mask covering mouth and nose.

**Hygiene Measures** After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.  
After each day's use, wash contaminated clothing and safety equipment.

## 9. Physical and chemical properties

**Form** Liquid

**Appearance** Brown liquid.

**Odour** Pungent organic sulphur odour.

**Melting Point** <0°C

**Boiling Point** >150°C

**Solubility in Water** Disperses in water.

**Specific Gravity** 1.06

**pH** 6 - 7 (1% dilution)

**Vapour Pressure** Molinate 500 mPa

**Volatile Component** <4%

**Flash Point** 66°C (CC)

**Flammability** Combustible Liquid (GHS). Combustible liquid C1. (AS1940)

**Auto-Ignition Temperature** Not known

**Flammable Limits - Lower** Not known

## 10. Stability and reactivity

**Chemical Stability** Stable under normal conditions.

**Possibility of hazardous reactions** Keep away from strong oxidising agents.

**Hazardous Polymerization** Hazardous polymerisation is not possible.

## 11. Toxicological Information

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<b>Acute Toxicity - Oral</b>	LD50 (rat) 483 mg/kg for molinate
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) 4350 mg/kg for molinate
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) 1.39 mg/l for molinate (as aerosol)
<b>Ingestion</b>	The concentrate is harmful if swallowed. Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. Molinate is rapidly metabolised and excreted, mainly in the urine.
<b>Inhalation</b>	When applying the product as a spray avoid breathing in spray mist. May cause irritation to mucous membranes. Breathing vapour can result in headaches, dizziness and possible nausea.
<b>Skin</b>	May irritate the skin. Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.
<b>Eye</b>	The concentrate will cause irritation of the eyes.
<b>Carcinogenicity</b>	Molinate is classified as a suspected human carcinogen based on limited evidence from animal studies.
<b>Reproductive Toxicity</b>	Evidence from animal studies suggests the potential for developmental toxicity on repeated or prolonged exposure including exposure to low levels of vapour.
<b>Chronic Effects</b>	Evidence from animal studies indicate that repeated or prolonged exposure to molinate can result in neuropathy.
<b>Serious eye damage/irritation</b>	The product is an eye irritant.
<b>Skin corrosion/irritation</b>	Mild skin irritant.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for molinate for a human is 0.002 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.2 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

<b>Persistence and degradability</b>	Average field half life of molinate is 8 - 25 days.
<b>Known Harmful Effects on the Environment</b>	Molinate products do not appear to pose any threat to fish or other aquatic organisms other than in very high concentrations.
<b>Other Precautions</b>	Do not spray on vegetation where honeybees are foraging. Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product.
<b>Environmental Protection</b>	Spray drift can cause damage, read the label for more information. Marine pollutant.
<b>Acute Toxicity - Fish</b>	Not toxic to fish. The following is data for the active ingredient, molinate. LC50 (96hr) for rainbow trout is 13 mg/l. LC50 (96hr) for bluegill sunfish is 29 mg/l.
<b>Acute Toxicity - Algae</b>	EC50 (72hr) for raphidocelis subcapitata 0.5 mg/l.

## 13. Disposal considerations

<b>Product Disposal</b>	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
<b>Container Disposal</b>	Do not use this container for any other purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. 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



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appropriate disposal at an approved waste management facility.

If an approved waste management facility is not available, bury the empty packaging 500mm 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.

Empty containers and product should not be burnt.

drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

## 14. Transport information

**Transport Information Storage and Transport** It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs. Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

**UN Number (Sea Transport)** For bulk shipments as Class 9, use UN 3082, HazChem code 2Z. 3082

**IMO Class/Packing Group** Class 9

**IMO Marine Pollutant** Marine Pollutant

**IMO Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains molinate)

## 15. Regulatory information

**Poisons Schedule** S7

**Packaging & Labelling** DANGEROUS POISON  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**Other Information** This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 49597.

## 16. Other Information

**Date of preparation or last revision of SDS** Reviewed 22/04/2015  
This SDS replaces document dated June 2011.

**Literature References** 1. National Drugs and Poisons Schedule Committee, Record of Reasons, June 2004;  
2. European Union Directive 67/548/EEC Annex 1 (29th ATP).

**Contact Person/Point Revisions Highlighted** Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498  
The SDS was reviewed to include GHS requirements.  
...End Of MSDS...

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