

# Material Safety Data Sheet

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** HORTICO WEED KILLER 360 CONCENTRATE

**Recommended Use:** Non selective herbicide for the home garden.

**Supplier:** Hortico, a Division of Orica Australia Pty Ltd

**ABN:** 004 117 828

**Street Address:** 1 Gow Street,  
Padstow, NSW 2211  
Australia

**Telephone Number:** +61 2 9781 8800

**Facsimile:** +61 2 9794 9700

**Emergency Telephone:** 1 800 033 111 (ALL HOURS)

## 2. HAZARDS IDENTIFICATION

Based on available information, not classified as hazardous according to criteria of ASCC; NON-HAZARDOUS SUBSTANCE.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

**Poisons Schedule:** S5 Caution.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components / CAS Number	Proportion	Risk Phrases
Glyphosate 1:1 isopropylamine salt 38641-94-0	36%	-
Inerts -	<25%	-
Water 7732-18-5	to 100%	-

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 0 800 764766) or a doctor.

**Inhalation:** Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.

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<b>Skin Contact:</b>	If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.
<b>Eye Contact:</b>	If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.
<b>Ingestion:</b>	Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Seek medical assistance.
<b>Medical attention and special treatment:</b>	Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Hazards from combustion products:** Non-combustible material.

**Precautions for fire fighters and special protective equipment:** Not combustible, however following evaporation of the water component of the material, the residual material can burn if ignited. On burning will emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

**Suitable Extinguishing Media:** Not combustible, however, if material is involved in a fire use: Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency procedures:** If contamination of sewers or waterways has occurred advise local emergency services.

**Methods and materials for containment and clean up:** Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

## 7. HANDLING AND STORAGE

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

**Conditions for safe storage:** Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Keep containers closed when not in use - check regularly for leaks.

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**Precautions for safe handling:** Keep out of reach of children. Avoid skin and eye contact.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:**

No value assigned for this specific material by the National Occupational Health and Safety Commission.

**Engineering controls:**

Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

**Personal Protective Equipment:**

Avoid contact with eyes and skin. Wash hands after use. Always wash hands before smoking, eating, drinking or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Colour:</b>	Clear Green
<b>Odour:</b>	Minimal
<b>Solubility:</b>	Miscible in water.
<b>Specific Gravity:</b>	1.17
<b>Relative Vapour Density (air=1):</b>	N Av
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	N App
<b>Flammability Limits (%):</b>	N App
<b>Autoignition Temperature (°C):</b>	N App
<b>% Volatile by Weight:</b>	N Av
<b>Boiling Point/Range (°C):</b>	N Av
<b>Decomposition Point (°C):</b>	N Av
<b>Sublimation Point (°C):</b>	N App
<b>pH:</b>	N Av
<b>Viscosity:</b>	N Av
<b>Evaporation Rate:</b>	N Av

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under normal conditions of use.

**Conditions to avoid:** None known.

**Incompatible materials:** None known.

**Hazardous decomposition products:** None known.

**Hazardous reactions:** None known.

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## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Ingestion:** Swallowing can result in nausea, vomiting, diarrhoea, and abdominal pain.

**Eye contact:** May be an eye irritant.

**Skin contact:** Contact with skin may result in irritation.

**Inhalation:** Breathing in mists or aerosols may produce respiratory irritation.

**Long Term Effects:**

No information available for the product.

**Toxicological Data:**

No LD50 data available for the product. However, for constituent(s)  
GLYPHOSATE - ISOPROPYLAMINE (1):

Oral LD50 (rat): >5000 mg/kg.

Dermal LD50 (rabbit): >5000 mg/kg.

SKIN: Non-irritant (rabbit).

EYES: Mild irritant (rabbit).

ADI (Acceptable Daily Intake) for humans is 0.3 mg/kg bw/day (for glyphosate).

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Avoid contaminating waterways.  
For GLYPHOSATE-ISOPROPYLAMINE:

**Aquatic toxicity:**

Harmful to aquatic organisms. Risk of bioaccumulation in an aquatic species is low.

Log Octanol/Water Partition Coefficient: -5.4

48hr LC50 (Daphnia magna): 930 mg/L.

96hr LC50 (rainbow trout): >1000 mg/L.

96hr LC50 (bluegill sunfish): >1000 mg/L.

96hr LC50 (catfish): 130 mg/L

96hr LC50 (fathead minnow): 97 mg/L

**Terrestrial toxicity:** Harmless to terrestrial species.

## 13. DISPOSAL CONSIDERATIONS

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**Disposal methods:** Refer to local government authority for disposal recommendations.

## 14. TRANSPORT INFORMATION

### Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

### Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

### Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

## 15. REGULATORY INFORMATION

**Classification:** Based on available information, not classified as hazardous according to criteria of ASCC; NON-HAZARDOUS SUBSTANCE.

**Poisons Schedule:** S5 Caution.

This product is registered in Australia by the Australian Pesticides & Veterinary Medicines Authority (APVMA).

## 16. OTHER INFORMATION

(1) In: 'The Pesticide Manual'. 13th Edition. Ed. CDS Tomlin. British Crop Protection Society, 2003.

### **Reason(s) for Issue:**

Change to supplier information.

This material safety data sheet has been prepared by SH&E Shared Services, Orica. This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Orica Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact their Orica representative or Orica Limited at the contact details on page 1. Orica Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

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