



HEXTAR GROUP OF COMPANIES

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## Material Safety Data Sheet

### SECTION 1: IDENTIFICATION OF THE CHEMICAL PRODUCT

**Product Name:** SURIA 700 SG HERBICIDE

**Product Type:** Group M Herbicide /Amino acid derivative herbicide

**Product Use:** A non-selective herbicide for the control of many annual and perennial weeds in certain situations as indicated in the Directions for Use.

### SECTION 2 : HAZARD IDENTIFICATION

**Statement of Hazardous Nature:**

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

**Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.**

**Risk Phrases:** Xi – Irritant, N – Dangerous for the Environment. R41, R51/53. Risk of serious eye damage. Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

**Safety Phrases:** S2, S26, S39, S61. Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection. Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets.

**ADG Classification:** None allocated. Not a dangerous good.

**Marine Pollutant:** None allocated.

**SUSDP Classification:** S5

**UN Number:** None allocated.

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion
Glyphosate (present as the mono-ammonium salt)	40465-66-5	70%
Other ingredients	-	to 100%

Product name: Suria 700 SG Herbicide

Issued: June 2011; Revision June 2016

Poisons Information Centre: 13 1126 from anywhere in Australia

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## SECTION 4: FIRST AID MEASURES

Call The Poisons Information Centre if 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 MSDS with you when you call.

**Inhalation:** If inhalation occurs, contact a Poisons Information Centre. Remove from exposure area to fresh air immediately. Perform artificial respiration if necessary. Keep the affected person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.

**Skin Contact:** Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

**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, induce vomiting but only if the patient is conscious. Call a physician or the Poisons Information Centre. This product will cause gastrointestinal tract irritation. Immediately dilute by swallowing water or milk. Get medical attention. Never give anything by mouth to an unconscious person.

**Advice to Doctor:** Treatment is symptomatic.

## SECTION 5: FIRE FIGHTING MEASURES

**Fire and Explosion Hazards:** Not applicable, this product is non-flammable.

**Fire Fighting:** Firefighters or others exposed to vapors or products of combustion should wear full protective clothing and self-contained breathing apparatus. Fire-fighting equipment should be thoroughly cleaned after use.

**Extinguishing Media:** Water spray, foam, dry chemical carbon dioxide or Class B extinguishing agents.

**Flash point:** No data.

**Upper Flammability Limit:** No data. **Lower Flammability Limit:** No data.

**Autoignition temperature:** No data. **Flammability Class:** No data, not flammable.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

In the event of an accidental spill, control spill at source and prevent spillage from entering drains or water courses. Wear full protective clothing including face mask and face shield. All skin areas should be covered. Wear protective rubber or PVC gloves. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is large or if absorbent material is not available create a barrier to stop material spreading and going into drains or waterways. Avoid using sawdust or other combustible material. Sweep up and pump recoverable product into labelled containers for salvage, and dispose of promptly at approved site.

After spill, wash area preventing runoff from entering drains or waterways. If significant quantity enters drains, advise emergency services and EPA.

## SECTION 7: HANDLING AND STORAGE

**Handling:** Handle with care and keep exposure to this product to a minimum as practical. Ensure adequate ventilation whilst handling product.

**Storage:** Store in closed, original container in a well-ventilated shaded area. Keep container tightly closed when not in use. Keep container out of reach of children. **DO NOT** store for prolonged periods in direct sunlight.

Product is incompatible with iron and galvanized steel. Mixing with other herbicides may reduce the activity of glyphosate.

**Flammability:** Not flammable.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure standards:

Exposure limits have not been established by ASCC for these ingredients ie. No TWA or STEL limits set. No biological limits applicable.

Ensure adequate ventilation and reduced dust in a shaded dry storage.

Personal Protective Equipment:

Australian Standards regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**

**Eyes:** Protective glasses or goggles should be worn when this product is being handled. Emergency eye wash facilities should be available where this product is being handled.

**Skin:** Prevent skin contact by wearing impervious gloves, clothes and, preferably overalls. Ensure all skin areas are covered.

**Inhalation:** Where product is being sprayed and a mist could be produced a respirator should be worn. It should be fitted with a type G cartridge, suitable for agricultural chemicals.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Physical Description & colour:** Pale yellow granules.

**Odour:** Musty odour.

**Boiling Point:** No data.

**Freezing/Melting Point:** No specific data. Solid at normal temperatures.

**Volatiles:** No data.

**Vapour Pressure:** No data.

**Vapour Density:** No data.

**Bulk Density:** No data.

**Water Solubility:** Soluble in water

**Odour Threshold:** No data.

**Evaporation Rate:** No data.

**Autoignition temp:** No data.

**Flash point:** No data.

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**Flammability limit:** No data.

**Partition coefficient (octanol/water):** No data.

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of storage and use as described on the label and in section 7.

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions.

**Conditions to Avoid:** This product should be kept in a cool, dry place, preferably below 30°C. Containers should be kept dry. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

**Incompatibilities:** Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, plastic and plastic-lined steel containers. Do not mix, store or apply this product or spray solutions of this product in galvanized or unlined (except stainless steel) containers or spray tanks. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

**Fire Decomposition:** Carbon monoxide, nitrous oxide, ammonia, diphosphorous pentoxide, and vaporized glyphosate may be produced.

**Hazard reactions:** None

## SECTION 11: TOXICOLOGICAL INFORMATION

Glyphosate has very low toxicity by ingestion and skin contact with a reported acute oral LD50 of 5600 mg/kg in the rat and reported dermal LD50 values of greater than 5000 mg/kg for the acid and isopropylamine salt. It is unlikely that glyphosate would produce reproductive effects in humans.

In a teratology study with rabbits, no developmental toxicity was observed in the fetuses at the highest dose tested (350 mg/kg/day). Glyphosate does not appear to be teratogenic.

Glyphosate mutagenicity and genotoxicity assays have been negative. These included the Ames test, other bacterial assays, and the Chinese Hamster Ovary (CHO) cell culture, rat bone marrow cell culture, and mouse dominant lethal assays. It appears that glyphosate is not mutagenic.

Rats given oral doses of up to 400 mg/kg/day did not show any signs of cancer, nor did dogs given oral doses of up to 500 mg/kg/day or mice fed glyphosate at doses of up to 4500 mg/kg/day. It appears that glyphosate is not carcinogenic.

Some microscopic liver and kidney changes, but no differences in function or toxic effects, have been seen after lifetime administration of glyphosate to test animals.

Glyphosate is poorly absorbed from the digestive tract and is largely excreted unchanged by mammals

Glyphosate has no significant potential to accumulate in animal tissue.

### Toxicity Data:

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Acute oral LD50 for rats: 5600 mg/kg  
Acute dermal LD50 for rabbits: > 5000 mg/kg  
LC50 (96h) for Rainbow trout: 8.2 – 26 mg/L  
LC50 (96h) for Bluegill sunfish: 5.8 – 14 mg/L  
LD50 for bees: > 0.1 mg/kg

**Other Information:** The Australian Acceptable Daily Intake (ADI) for glyphosate for human is 0.3 mg/kg/day, set for the public daily, lifetime exposure. This is based on the NOEL of 30 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, 'ADI List', TGA, august 2003).

## SECTION 12: ECOLOGICAL INFORMATION

Glyphosate is moderately persistent in soil, with a estimated average half-life of 50 days. Field half-lives range from 1 to 175 days. It is strongly adsorbed to most soils, even those with lower organic and clay content. Even though it is highly soluble in water, field studies show it does not leach a lot and has low potential for runoff (except when adsorbed to soil matter). It has been estimated that less than 2% of the applied chemical goes to runoff. Soil microbes are responsible for the breakdown of the product and volatilization or photodegradation losses are negligible.

In water, glyphosate is strongly adsorbed to suspended organic and cationic mineral matter and is broken down by microorganisms. Its half-life in pond water ranges from 2 to 10 weeks.

Glyphosate is translocated throughout the plant, including to the roots. It is extensively metabolized in most plants.

Glyphosate may be slightly toxic to wild birds. The dietary LC50 in both mallards and bobwhite quail is greater than 4500 ppm.

There is a low potential for the compound to build up in the tissues of aquatic invertebrates or other aquatic organisms if poisoned.

Glyphosate is nontoxic to honeybees. Its oral and dermal LD50 is greater than 100 µg/ bee.

## SECTION 13: DISPOSAL CONSIDERATIONS

Instructions for the disposal of this product and its containers are listed on the product label.

For collection of unwanted rural chemicals, contact ChemClear @1800 008 182 [www.chemclear.com.au](http://www.chemclear.com.au) and for help with the disposal of empty drums, contact DrumMuster® [www.drummuster.com.au](http://www.drummuster.com.au) for local and State contacts.

## SECTION 14: TRANSPORT INFORMATION

**ADG Code:** None allocated. Not a dangerous good.

**Hazchem Code:** None allocated.

**Special Provisions:** None allocated.

**Limited quantities:** None allocated.

**Dangerous Goods Class:** None allocated.

**Sub Risk:** None allocated.

**Packaging Group:** None allocated.

**Packaging Method:** None allocated.

## SECTION 15: REGULATORY INFORMATION

**SUSDP: Schedule 5;** CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**ADG Classification:** None allocated. Not a dangerous good.

**AICS (Australia):** All of the components in this product are listed on the Australian Inventory of Chemical Substances.

**APVMA Registration Number: 65922**

## SECTION 16: OTHER INFORMATION

**This MSDS contains only safety-related information sourced from the public domain and analytical results on this product:**

### Acronyms:

**ADG Code** Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition

**AICS** Australian Inventory of Chemical Substances

**CAS number** Chemical Abstracts Service Registry Number

**Hazchem Number** Emergency action code of numbers and letters that provide information for fire fighters.

**IARC** International Agency for Research on Cancer

**ASCC** Office of the Australian Safety and Compensation Council

**NTP** National Toxicology Program (USA)

**R-Phrase** Risk Phrase

**SUSDP** Standard for the Uniform Scheduling of Drugs & Poisons

**UN Number** United Nations Number

**Police and Fire Brigade: Dial 000 **Poisons Information Centre (13 1126)****

**Emergency contact: 04 0214 9346 (24 hours)**

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