Product Name: ACP Paraquat 250 Herbicide Page: 1 of 6

This revision issued: February, 2022

Phone: 0417 329 133 (all hours)

Fax: 07 3337 9882

# **Section 1 - Identification of The Material and Supplier**

**Australis Crop Protection Pty Ltd** 

Shop 4, 30 Heber Street

Moree, NSW 2400

Chemical nature:

Paraquat is a bipyrilidinium derivative.

Trade Name: ACP Paraquat 250 Herbicide

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

Creation Date: September, 2011
This version issued: February, 2022

Poisons Information Centre: Phone 13 1126 from anywhere in Australia

# **Section 2 - Hazards Identification**

### **Statement of Hazardous Nature**

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

Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

**SUSMP Classification:** S7

ADG Classification: Class 6.1: Toxic substances.

UN Number: 3016, BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC







# **GHS Signal word: DANGER**

Acute Toxicity Oral Category 3

Acute Toxicity Dermal Category 3

Skin Irritation Category 2

Eye irritation Category 2B

Acute Toxicity Inhalation Category 2

Specific Target Organ Toxicity - Single Exposure Category 3 Specific Target Organ toxicity - repeated exposure Category 1 Hazardous to aquatic environment Short term/Chronic Category 1

## **HAZARD STATEMENT:**

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

H315: Causes skin irritation.

H320: Causes eye irritation.

H330: Fatal if inhaled.

H335: May cause respiratory irritation.

H372: Causes damage to organs through prolonged or repeated exposure.

H410: Very toxic to aquatic life with long lasting effects.

# **PREVENTION**

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.

P273: Avoid release to the environment.

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

P284: Wear respiratory protection.

# **RESPONSE**

P310: Immediately call a POISON CENTRE or doctor/physician.

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

P361: Remove all contaminated clothing immediately.

P363: Wash contaminated clothing before reuse.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

#### **SAFETY DATA SHEET**

Issued by: Australis Crop Protection Pty Ltd Phone: 0417 329 133 (any time)

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

Product Name: ACP Paraquat 250 Herbicide Page: 2 of 6

This revision issued: February, 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.

P332+P313: If skin irritation occurs: Get medical advice.

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

P391: Collect spillage.

# **STORAGE**

P405: Store locked up. P410: Protect from sunlight.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

#### **DISPOSAL**

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

# **Emergency Overview**

Physical Description & Colour: Clear, dark green liquid.

**Odour:** Obnoxious pyridine odour.

**Major Health Hazards:** very toxic by inhalation, may cause serious damage to health by prolonged exposure, toxic in contact with skin and if swallowed, irritating to eyes, respiratory system and skin.

#### Section 3 - Composition/Information on Ingredients TWA (mg/m<sup>3</sup>) CAS No STEL (mg/m<sup>3</sup>) Ingredients Conc,% Paraguat (as the dichloride) 1910-42-5 250g/L not set not set <10 Other non hazardous ingredients not set secret not set Water 7732-18-5 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 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:** If inhalation occurs, contact a Poisons Information Centre. Urgent hospital treatment is likely to be needed. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow victim to move about unnecessarily. Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.

**Skin Contact:** Flush contaminated area with lukewarm, gently flowing water for at least 20-30 minutes, by the clock. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting (show paramedics this SDS and take their advice). Under running water, remove contaminated clothing, shoes and leather goods (eg watchbands and belts). If breathing has stopped, trained personnel should begin artificial respiration or, if the heart has stopped, cardiopulmonary resuscitation (CPR) 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, do NOT induce vomiting; rinse mouth thoroughly with water and contact a Poisons Information Centre, or call a doctor at once. Give activated charcoal if instructed.

# **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.

Only small quantities of decomposition products are expected from this products at temperatures normally achieved in a fire. This will only occur after heating to dryness.

#### **SAFETY DATA SHEET**

Issued by: Australis Crop Protection Pty Ltd Phone: 0417 329 133 (any time)

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

Product Name: ACP Paraquat 250 Herbicide Page: 3 of 6

This revision issued: February, 2022

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

**Extinguishing Media:** Water fog or fine spray is the preferred medium for large fires. Try to contain spills, minimise spillage entering drains or water courses.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is liquid-tight chemical protective clothing and breathing apparatus.

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. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Wear full protective chemically resistant clothing including eye/face protection, gauntlets and self contained breathing apparatus. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should include a full face shield. 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. It should be fitted with a type G cartridge, suitable for agricultural chemicals.

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. Because of the toxicity of this product, special personal care should be taken in any cleanup operation. 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 packages of this product in a cool place. 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. If you keep more than 2500kg or L of Dangerous Goods of Packaging Group II, you may be required to license the premises or notify your Dangerous Goods authority. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations. 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)

the work environment remains clean and that vapours and mists are minimised.

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

The ADI for Paraquat dichloride is set at 0.004mg/kg/day. The corresponding NOEL is set at 0.45mg/kg/day. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, June 2013.

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:** No special ventilation requirements are normally necessary for this product. However make sure that

**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.

#### **SAFETY DATA SHEET**

Issued by: Australis Crop Protection Pty Ltd Phone: 0417 329 133 (any time)

Product Name: ACP Paraquat 250 Herbicide

Page: 4 of 6 This revision issued: February, 2022

**Skin Protection:** It is essential that all skin areas are adequately covered by impermeable gloves, overalls, hair covering, apron and face shield. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following: rubber, PVC.

**Respirator:** If there is a significant chance that vapours or mists are likely to build up in the area where this product is being used, we recommend that you use a respirator. It should be fitted with a type G cartridge, suitable for agricultural chemicals.

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

# **Section 9 - Physical and Chemical Properties:**

Physical Description & colour: Clear, dark green liquid.
Odour: Obnoxious pyridine odour.
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.

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

Vapour Density: No data. Specific Gravity: 1.090 to 1.125

Water Solubility: Completely soluble in water.

pH: 5.0 to 6.5

Volatility: No data.

Odour Threshold: No data.

Evaporation Rate: No data.

Coeff Oil/water Distribution: No data

Particle Characteristics: Not applicable to 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 acids, strong bases, strong oxidising agents.

**Fire Decomposition:** Only small quantities of decomposition products are expected from this products at temperatures normally achieved in a fire. This will only occur after heating to dryness. Carbon dioxide, and if combustion is incomplete, carbon monoxide. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Hydrogen chloride gas, other compounds of chlorine. Water. 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

**Toxicity:** Paraquat Dichloride:  $LD_{50}$  Oral, Rat 157mg/kg  $LD_{50}$  Oral, Guinea Pig = 22-42mg/kg  $LD_{50}$  Oral, Dog = 25-50mg/kg  $LD_{50}$  Dermal, Rat = 236-500mg/kg

# Classification of Hazardous Ingredients

Ingredient Health Hazard Statement Codes

Paraquat Dichloride Conc>=25%: T+; R26; R24/25; R48/25; R36/37/38

- Acute toxicity category 2
- Acute toxicity category 3
- Specific target organ toxicity (repeated exposure) category 1
- Eye irritation category 2
- Specific target organ toxicity (single exposure) category 3
- Skin irritation category 2
- Hazardous to the aquatic environment (acute) category 1

### **SAFETY DATA SHEET**

Issued by: Australis Crop Protection Pty Ltd Phone: 0417 329 133 (any time)

Product Name: ACP Paraquat 250 Herbicide Page: 5 of 6

This revision issued: February, 2022

• Hazardous to the aquatic environment (chronic) - category 1

#### **Potential Health Effects**

#### Inhalation

**Short Term Exposure:** Available data shows that this product is very toxic, but symptoms are not available. In addition product is an inhalation irritant. Symptoms may include headache, irritation of nose and throat and increased secretion of mucous in the nose and throat. Other symptoms may also become evident and should be treated immediately.

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 toxic, but further symptoms are not available. In addition product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin.

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

# **Eye Contact:**

**Short Term Exposure:** This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may 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 toxic, but further symptoms are not available. This product is unlikely to cause any irritation problems in the short or long term.

**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

Very toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment. This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

### Paraquat Dichloride:

Birds:  $LD_{50}$  hen: 262-380mg/kg  $LD_{50}$  bobwhite quail: 981mg/kg  $LD_{50}$  Japanese quail: 970mg/kg  $LD_{50}$  mallard duck: 4048mg/kg  $LD_{50}$  rainbow trout: 32mg/L  $LC_{50}$  brown trout: 2.15-13mg/L

### **Environmental fate:**

Animals: In rats, following oral administration, 76-90% of the dose was excreted in the faeces, and 11-20% in urine. Plants: On plant surfaces, photochemical degradation occurs. Degradation products which have been isolated include 1-methyl-4-carboxypyridinium chloride and methylamine hydrochloride.

**Soil/environment:** Clays and organic materials rapidly and strongly absorb paraquat, resulting in complete deactivation. Typical strong absorption capacities vary from 20-3000mg/kg soil depending on clay or organic material content. Desorption requires digestion with 12N sulfuric acid for several hours.

# **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**

Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

ADG Code: 3016, BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC

Hazchem Code: 2X

Special Provisions: 61, 274

### **SAFETY DATA SHEET**

Issued by: Australis Crop Protection Pty Ltd Phone: 0417 329 133 (any time)

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

Product Name: ACP Paraquat 250 Herbicide

Page: 6 of 6

This revision issued: February, 2022

Limited quantities: ADG 7 specifies a Limited Quantity value of 100 ml for this class of product.

Dangerous Goods Class: Class 6.1, Toxic Substances.

Packaging Group: Ⅱ

Packaging Method: P001, IBC02

Class 6 Toxic Substances shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 3 (Flammable Liquids where the Flammable Liquid is nitromethane), 5.1 (Oxidising Agents where the Toxic Substances are Fire Risk Substances), 5.2 (Organic Peroxides where the Toxic Substances are Fire Risk Substances), 8 (Corrosive Substances where the Toxic Substances are cyanides and the Corrosives are acids), Foodstuffs and foodstuff empties. They may however be loaded in the same vehicle or packed in the same freight container with Classes, 2.1 (Flammable Gases), 2.2 (Non-Flammable, Non-Toxic Gases), 2.3 (Toxic Gases), 3 (Flammable liquids, except where the flammable liquid is nitromethane), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 4.3 (Dangerous When Wet Substances), 5.1 (Oxidising Agents except where the Toxic Substances are Fire Risk Substances), 5.2 (Organic Peroxides except where the Toxic Substances are Fire Risk Substances), 9 (Miscellaneous Dangerous Goods)

# **Section 15 - Regulatory Information**

**AllC:** All of the significant ingredients in this formulation are compliant with AlCIS regulations. The following ingredient: Paraquat, 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, 7th Edition

AIIC Australian Inventory of Industrial Chemicals
CAS Number Chemical Abstracts Service Registry Number

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

services especially firefighters

IARC International Agency for Research on Cancer
SWA Safe Work Australia, formerly ASCC and NOHSC

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 OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS 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, February, 2022.

http://www.kilford.com.au/ Phone (02)8321 8866