

## SAFETY DATA SHEET



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Date of Issue: November 2013  
SDS No. FMC/PROP500/1

### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name: FMC Propyzamide 500 Herbicide**

**Other Names:** Propyzamide. Group D Herbicide.  
**Use:** An agricultural herbicide for selective weed control.  
**Company:** FMC Crop Protection Pty Ltd.  
**Address:** 5 Palmer Place, Murarrie, Qld 4172  
**Telephone Number:** 07 3908 9222 **Fax Number:** 07 3908 9221  
**Emergency Telephone Number:** 1800 033 111 (All hours - Australia wide).

### SECTION 2 HAZARDS IDENTIFICATION

**Classified as Hazardous according to criteria of the Safe Work Australia.  
Not classified as a Dangerous Good according to the ADG Code.**

**GHS Classification:**

Carcinogenicity: Category 2.  
Eye irritation: Category 2A.  
Skin Irritation: Category 2.

**Signal Word:** WARNING

**Hazard Statements:**

H315 Causes skin irritation  
H319 Causes serious eye irritation.  
H351 Suspected of causing cancer.

**Precautionary statements:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P281 Use personal protective equipment as required.  
P264 Wash hands, arms and face thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
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/attention.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention:  
P321 Specific treatment see product label.  
P362 Take off contaminated clothing and Wash before reuse.  
P405 Store locked up.

**Pictograms:**



**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients:**

<b>CHEMICAL</b>	<b>CAS NUMBER</b>	<b>PROPORTION</b>
Propyzamide	23950-58-5	500 g/kg
Other ingredients (considered non-hazardous)		Balance

**SECTION 4 FIRST AID MEASURES**

- Ingestion:** DO NOT induce vomiting. Rinse any residual product from mouth and lips. Give water to drink and seek medical help. Phone Australia 13 11 26.
- Eye:** Immediately flush eyes with running water until product is removed. Seek medical advice if irritation persists.
- Skin:** Remove contaminated clothing. Wash thoroughly under running water using a mild soap to remove all product. Seek medical advice if irritation, reddening and/or other damage occurs.
- Inhaled:** Remove victim from exposure. Keep at rest until fully recovered. Seek medical advice if effects persist. Not expected to be a significant route of exposure.

**Advice to Doctor:** Treat symptomatically.

**SECTION 5 FIRE FIGHTING MEASURES**

**Specific Hazard:** Generally considered a low risk. There is no risk of an explosion from this product under normal circumstances if involved in a fire. If the water in the formulation is evaporated by prolonged heating, the residue will burn.

**Extinguishing media:** Extinguish fire using media suited to burning material. If containers are ruptured contain all runoff. CO<sub>2</sub>, Foam or dry chemical are preferred. Soft stream water fog or fine water spray if no alternatives. Contain all runoff.

**Hazards from combustion products:** If involved in a fire, it will emit toxic and noxious fumes of oxides of carbon, nitrogen or sulfur. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk to of exposure to vapour or smoke.

**Precautions for fire-fighters and special protective equipment:** Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Emergency procedures:** Isolate and post spill area. Wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves and eye/face protection to prevent skin and eyes being affected. Evacuate unprotected and unnecessary personnel from area of spill. If material is leaking from a container, stop the leak only if this can be done safely. This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Prevent spillage entering drains or watercourses.

In the case of spillage, stop leak if safe to do so, and contain spill and absorb spilled material with absorbent material such as sand, clay or cat litter and dispose of waste as indicated in section 13 or according to the Australian Standard 2507 - Storage and Handling of Pesticides. Soil is a suitable absorbent, especially soils high in clay. Soil can be used to form bunds to contain spillage. Contaminated soil should be collected for disposal at a suitable landfill. Personal protective equipment and clothing should be washed with soapy water. Keep out animals and unprotected persons

**Material and methods for containment and cleanup procedures:** To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. Absorb, as above, any excess liquid and add both solutions to the drums of waste already collected. Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

**SECTION 7 | HANDLING AND STORAGE**

**Precautions for Safe Handling:** Ensure containers are kept closed until using product. Will irritate the eyes and skin. Avoid contact with eyes and skin. When preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, washable hat and elbow-length PVC gloves. After use, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

**Conditions for Safe Storage:** DO NOT store near (or allow to contact) fertilizers, fungicides or pesticides. Store in the closed original container, in a cool well ventilated area, out of direct sunlight. Store in a room or place away from children, animals, food, feed stuffs, seed and fertilizers. Not classified as a Dangerous Good.

**SECTION 8 | EXPOSURE CONTROLS / PERSONAL PROTECTION****National Exposure Standards:**

No exposure guidelines have been established for this product by Safe Work Australia.

**Biological Limit Values:**

No biological limit allocated.

**Engineering controls:**

Use in ventilated areas only. Use local exhaust at all process locations. Ventilate all transport vehicles prior to unloading. Keep containers closed when not in use.

**Personal Protective equipment (PPE):**

General: When preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, washable hat and elbow-length PVC gloves. After use, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Personal Hygiene: Will irritate the eyes and skin. Avoid contact with eyes and skin. Clean water should be available for washing in case of eye or skin contamination. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

**SECTION 9 | PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Viscous light brown liquid suspension.
<b>Odour:</b>	Mild odour.
<b>Solubility in Water:</b>	Forms a suspension in water, does not dissolve.
<b>Vapour Pressure:</b>	No data.
<b>Specific Gravity:</b>	Approximately 1.1
<b>Flammability:</b>	Non-Combustible liquid, unless dried.
<b>Poison Schedule:</b>	This product is a Schedule 5 (S5) poison.

**SECTION 10 | STABILITY AND REACTIVITY**

**Chemical Stability:** Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.

**Conditions to avoid:** Do not store for prolonged periods in direct sunlight.

**Incompatible materials:** Keep away from strong acids, strong bases and strong oxidising agents.

**Hazardous decomposition products:** Product is unlikely to decompose until heated to dryness. On further heating will emit toxic fumes. Carbon dioxide and monoxide, nitrogen oxides, fluorides including hydrofluoric acid may be produced under certain conditions of combustion.

**Hazardous reactions:** No special considerations. Hazardous polymerisation is not possible.

**SECTION 11 | TOXICOLOGICAL INFORMATION**

No specific data is available for this product as no toxicity tests have been conducted on this product. Information presented is our best judgement based on similar products and/or individual components. As with all products for which limited data is available, caution must be exercised through the use of protective equipment and handling procedures to minimise exposure.

**SECTION 11 TOXICOLOGICAL INFORMATION (Continued)****Potential Health Effects:****ACUTE EFFECTS**

**Ingestion:** Acute Oral LD<sub>50</sub> (rat) > 5000 mg/kg (propyzamide). Accidental swallowing of small amounts of this product is not expected to cause injury – low acute oral toxicity.

**Skin:** Acute dermal LD<sub>50</sub> (rat) > 2,000 mg/kg (propyzamide). May cause slight skin irritation. May cause discomfort if contact is prolonged. Not a dermal sensitiser.

**Eye:** Mild eye irritant.

**Inhalation:** Should not cause severe effects. Low toxicity by inhalation. Acute inhalation LC<sub>50</sub> > 5 mg/L/4 hrs (propyzamide).

**Chronic toxicity:** When dogs were fed a diet containing Propyzamide for 3 months, decreases in weight gain and food consumption, changes in blood chemistry, and increased liver weights were observed at doses of 15 mg/kg/day. In a study in rats over 3 months, similar effects were seen at doses of over 10 mg/kg/day, and changes in thyroid, adrenal, and pituitary function were observed at 50 mg/kg/day. In a 2-year feeding study in dogs, the addition of Propyzamide to the diet at doses up to 7.5 mg/kg/day caused no adverse health effects at any of the doses tested.

**Reproductive effects:** It is unlikely that Propyzamide will have reproductive effects except at doses high enough to cause maternal toxicity.

**Teratogenic effects:** The evidence suggests Propyzamide is not teratogenic.

**Mutagenic effects:** Mutagenicity tests on bacteria, mammalian cell cultures, and live animals have been negative. It appears Propyzamide is not mutagenic.

**Carcinogenic effects:** Propyzamide caused liver tumours in mice after 2 years at doses of 10 mg/kg/day and above. In rats, doses of 50 mg/kg/day and above produced changes in ovary and liver structure and function, as well as thyroid and testicular effects. These data suggest that Propyzamide may have carcinogenic activity at sufficient doses. Safe Work Australia has classified propyzamide in the occupational environment as a Carcinogen Category 3 substance. This means that the substance is not classifiable as to carcinogenicity to humans.

**SECTION 12 ECOLOGICAL INFORMATION**

**Environmental Toxicology:** Propyzamide is practically non-toxic to birds. The oral LD<sub>50</sub> Japanese quail = 8700 mg/kg, and greater than 14,000 mg/kg in mallard ducks. The 8-day dietary LC<sub>50</sub> in bobwhite quail and mallard ducks is greater than 10,000 ppm. Propyzamide is practically non-toxic to warm water fish and slightly toxic to cold-water fish. The 96-hour LC<sub>50</sub> for Propyzamide = 100 mg/L in bluegill sunfish, 72 mg/L in rainbow trout, 350 mg/L in goldfish, 204 mg/L in harlequin fish, and 150 mg/L in guppies. The 48-hour LC<sub>50</sub> for *Daphnia magna*, a small freshwater crustacean, is greater than 5.6 mg/L. Propyzamide may be moderately toxic to aquatic invertebrates. Propyzamide is non-toxic to honey bees.

**Environmental Properties:** Propyzamide is moderately persistent in most soils, with a reported average field half-life of 60 days. It is readily bound, or adsorbed, to most soils. Propyzamide is inactivated by soil organic matter and will not be effective on muck, peat, or other very high-organic content soils. Chemical degradation maybe the main route of disappearance from the soil. Photodecomposition at the soil surface can also occur. Soil microorganisms carry out a moderate amount of Propyzamide breakdown. The herbicide is not active against common soil microorganisms. Volatilisation loss may be high under hot, dry conditions.

**SECTION 13 DISPOSAL CONSIDERATIONS**

**Spills & Disposal:** Isolate and post spill area. Wear prescribed protective clothing and equipment. Large spills should be dyked and covered to prevent dispersal. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents.

**SECTION 13 DISPOSAL CONSIDERATIONS (Continued)**

Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

**Disposal of empty containers:** Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm 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.

**SECTION 14 TRANSPORT INFORMATION**

**Road & Rail Transport:** This product is not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**Marine and Air Transport:** This product is not classified as a Dangerous Good.

**SECTION 15 REGULATORY INFORMATION**

Classified as a hazardous substance according to criteria of the Safe Work Australia. (Xn – harmful; Xi - irritant).

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a schedule 5 poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 68080.

Product is not classified as a Dangerous Good according to the ADG Code (7<sup>th</sup> Ed).

**Requirements concerning special training:**

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

**SECTION 16 OTHER INFORMATION**

Issue Date: 10 November 2013. Valid for 5 years. (First issue).

Key to abbreviations and acronyms used in this MSDS:

ADG Code: Australian Dangerous Goods Code (for the transport of Dangerous Goods by Road and Rail).

ASCC: Australian Safety & Compensation Council (formally known as the National Occupational Health & Safety Commission (NOHSC)).

Carcinogen: An agent which is responsible for the formation of a cancer.

Genotoxic: Capable of causing damage to genetic material, such as DNA.

Lacrimation: The production, secretion, and shedding of tears.

Lavage: A general term referring to cleaning or rinsing.

NOHSC: National Occupational Health and Safety Commission.

Pneumonitis: A general term that refers to inflammation of lung tissue.

PPE: Personal protective equipment.

Teratogen: An agent capable of causing abnormalities in a developing foetus.

TWA: The Time Weighted Average airborne concentration over an eight-hour working day, for a five day working week over an entire working life.

Safe Work Australia: Formally known as Australian Safety & Compensation Council (ASCC) which was formally known as the National Occupational Health & Safety Commission (NOHSC).

**SECTION 16 | OTHER INFORMATION (Continued)**

## References

1. "Search Hazardous Substances". Safe Work Australia website. (2013).
2. "Approved Criteria for Classifying Hazardous Substances" 3rd Ed. NOHSC Australia. [NOHSC:1008 (2004)]. October 2004.
3. Globally Harmonized System of Classification and Labelling of Chemicals (GHS). United Nations, 2009.

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 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 this company.

*End of SDS*