



MATERIAL SAFETY DATA SHEET

TITAN DICAMBA 700 WDG HERBICIDE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Titan Dicamba 700 WDG Herbicide
Product Code	-
Other Names	-
Product Use	Agricultural Herbicide
Company Name	Titan Ag Pty Ltd
Address	3/14 Narabang Way Belrose NSW 2085
Telephone Number	02 9986 2943
Emergency Telephone	02 9986 2943

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.

Classified as hazardous according to the criteria of ASCC.

Hazards

Risk Phrases

-
R52 - Harmful to aquatic organisms.
R53 - May cause long-term adverse effects in the aquatic environment.

Safety Phrases

S61 - Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
dicamba technical (to give dicamba present as the sodium salt)	1982-69-0 2178-46-3	>70%
diatomaceous earth (silica)	7631-86-9	10 - <30%
other ingredients deemed not to be hazardous	proprietary	To 100%

4. FIRST AID MEASURES

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.
Ingestion	Never give anything by mouth to an unconscious person. Seek immediate medical attention. If more than 15 minutes from a hospital, induce vomiting preferably using Ipecac Syrup (APF).
Skin	Remove contaminated clothing and wash affected areas with soap and water. Seek medical attention if symptoms persist. Launder clothing before reuse.
Eyes	In case of eye contact, check for and remove any contact lenses. Immediately irrigate eyes with plenty of running water for at least 15 minutes, keeping eyelids open. Seek medical attention immediately.



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Medical Advice No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media For major fires call the Fire Brigade. Ensure that an escape path is available from any fire.
Fine water spray or foam.

Hazardous Combustion Products Toxic and /or irritating fumes.

Firefighting Equipment Wear ASCC approved self-contained breathing apparatus and full protective clothing.

Unusual Fire or Explosion Hazards This product is non-flammable and non-explosive. Product is combustible.

Hazchem Code Not allocated.

6. ACCIDENTAL RELEASE MEASURES

Spills In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing. Sweep granule concentrates into a pile and into labelled containers for disposal. Decontaminate the spill area with detergent and water and rinse with the smallest volume of water possible. Launder protective clothing before re-use.

7. HANDLING AND STORAGE

Handling Avoid contact with eyes and skin. Do not inhale spray mist. Use of safe work practices is recommended. Observe good personal hygiene.

Storage Store in the closed, original container in a dry, well ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards (ASCC) **Diatomaceous earth(fumed silica):**
TWA: - ppm / 2 mg/m³ – respirable dust
STEL: - ppm / - mg/m³

Engineering Controls Local exhaust ventilation is recommended when vapours and mists can be released in excess of established airborne exposure limits.

Respiratory Protection Use an ASCC approved full face supplied air respirator if high airborne concentrations of the material are present. See Australian Standards AS/NZS 1715 and 1716 for more information.

Eye Protection Protective glasses or goggles and face shield.

Skin Protection Elbow-length gloves and protective clothing.

Hygienic Practices Food, beverages and tobacco products should not be stored or consumed where this material is in use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Water dispersible granules
Odour	Faint odour
Solubility in Water	Dispersible at 20°C
Specific Gravity (H₂O = 1)	~ 0.6kg/L
pH (1% deion. water)	~ 7 at 20°C
Autoignition Temperature	232°C
Flash Point	Not applicable
Flammability	Non-flammable
Combustibility	Combustible
Oxidising Properties	Non-oxidising

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal storage conditions.
Incompatible Materials	No information available
Hazardous Decomposition Products	No information available
Hazardous Polymerization	No information available
Conditions to Avoid	No information available

11. TOXICOLOGICAL INFORMATION

Toxicity	Dicamba technical: Oral LD ₅₀ (rat) = 757 – 1707mg/kg Oral LD ₅₀ (mice) = 1190mg/kg Oral LD ₅₀ (rabbit) = 2000mg/kg Oral LD ₅₀ (guinea pigs) = 566 - 3000mg/kg Dermal LD ₅₀ (rabbit) > 2000mg/kg Inhalation LC ₅₀ (rat) > 200mg/L
Routes of Exposure	Inhalation, ingestion, eye and skin
Health effects from likely routes of exposure	Inhalation: Symptoms of poisoning with dicamba by inhalation include loss of appetite (anorexia), vomiting, muscle weakness, slowed heart rate, shortness of breath, central nervous system effects (victim may become excited or depressed), benzoic acid in the urine, incontinence, cyanosis (bluing of the skin and gums), and exhaustion following repeated muscle spasms . In addition to these symptoms, inhalation can cause irritation of the linings of the nasal passages and the lungs, and loss of voice. Ingestion: Slightly toxic if swallowed. Eye: Very irritating and corrosive, and can cause severe and permanent damage to the eyes. The eyelids may



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Effects of Overexposure	swell and the cornea may be cloudy for a week after
Existing Conditions	dicamba is splashed in the eyes.
Aggravated by Exposure	Skin: Can cause skin irritation and skin burns.
Carcinogenicity	In some individuals dicamba is a skin sensitizer No information available Rats fed up to 25 mg dicamba /kg/day for 2 years showed no increased incidence of tumors. This evidence suggests that dicamba is not carcinogenic.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Sodium salt of dicamba technical: Aquatic organisms: LC ₅₀ (rainbow trout) = 716mg/L – 96h (low toxicity) LC ₅₀ (rainbow trout) > 1027mg/L – 96h (low toxicity) EC ₅₀ (<i>Daphnia magna</i>) > 1030mg/L – 48h EC ₅₀ (green algae) > 107mg/L – 72h It has a low toxicity to birds and bees.
Mobility	Dicamba technical is moderately persistent in soil. The half-life of dicamba in soil is typically 1 to 4 weeks. Under conditions suitable for rapid metabolism, the half-life is less than 2 weeks. Dicamba slowly breaks down in sunlight.

13. DISPOSAL CONSIDERATIONS

Disposal methods and containers	Instructions concerning the disposal of this product and its containers are given on the product label. Dispose according to applicable local and state government regulations.
Special precautions for landfill or incineration	Please consult your state Land Waste Management Authority for more information

14. TRANSPORT INFORMATION

Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail.

UN Number	Not applicable
Proper Shipping Name	Not applicable
Dangerous Goods Class	Not applicable
Hazchem Code	Not applicable
Packing Group	Not applicable
Special Precautions	Not applicable



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15. REGULATORY INFORMATION

Sodium salt of dicamba technical and diatomaceous earth (silica) are listed in the Australian Inventory of Chemical Substances (AICS).

SUSDP Classification: 6

16. OTHER INFORMATION

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Prepared by MSDS.COM.AU Pty Ltd www.msds.com.au
Abbreviations Used IARC: International Agency for Research on Cancer
ASCC: Australian Safety and Compensation Council
NTP: National Toxicology Program (U.S.)
OSHA: Occupational Safety and Health Administration (U.S.)
STEL: Short term exposure limit
TWA: Time weighted average

Emergency Contacts

Titan Ag Pty Ltd	02 9986 2943
Titan Ag Pty Ltd – Emergency Number	02 9986 2943
Police and Fire Brigade	000
Poisons Information Centre	13 11 26

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Please read instructions / label before using product.