Safety Data Sheet
according to WHS Regulations

Date of issue: 04.07.2025 Revision date: 16.06.2025

1 Identification

Product Name: Titan Amine 720

Other Means of Identification: Mixture

APVMA Approval Number: 90006

Recommended Use of the Chemical and Restriction on Use: Agricultural herbicide

Details of Manufacturer or Importer:
Titan Ag Pty Ltd
Princes Street Marina
Suite 15/16 Princes Street
Newport NSW 2106

Phone Number: 02 9999 6655

Emergency telephone number: 02 9999 6655

2 Hazard(s) Identification

Hazardous Nature:
Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).
Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.


GHS05 Corrosion

Eye damage/irritation – Category 1	H318 Causes serious eye damage.


GHS07

Acute toxicity - oral – Category 4	H302 Harmful if swallowed.
Skin sensitisation – Category 1	H317 May cause an allergic skin reaction.
Specific target organ toxicity (single exposure) – Category 3	H335 May cause respiratory irritation.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

Signal Word Danger

Hazard Statements
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection / face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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P302+P352	IF ON SKIN: Wash with plenty of 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.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:		
CAS: 2008-39-1	2,4-D dimethylamine salt, Acetic acid, (2,4-dichlorophenoxy)-, compound with N-methylmethanamine (1:1) Eye damage/irritation – Category 1, H318; Aquatic Chronic 2, H411; Acute toxicity - oral – Category 4, H302; Skin sensitisation – Category 1, H317	<75.0%
CAS: 5742-17-6	Acetic acid, (2,4-dichlorophenoxy)-, compound with 2-propanamine (1:1) Eye damage/irritation – Category 1, H318; Acute toxicity - oral – Category 4, H302; Skin sensitisation – Category 1, H317; Specific target organ toxicity (single exposure) – Category 3, H335; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	

4 First Aid Measures

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:
In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:
In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion:
If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.

Specific Hazards Arising from the Chemical:
If heated to dryness, followed by further strong heating, hazardous combustion products include carbon dioxide, carbon monoxide, nitrogen compounds, oxides of nitrogen, hydrogen cyanide gas (in reducing atmospheres), chloride gas, other chlorine compounds and smoke.
Product is not flammable.
Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.
Minimise run-off from fire fighting entering drains or water courses.

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Special Protective Equipment and Precautions for Fire Fighters:
When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:
Wear chemical resistant gloves, protective clothing, protective goggles and safety boots. Use approved respiratory protection if there is a significant chance mists or vapours will build up during cleaning. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions:
In the event of a major spill, prevent spillage from entering drains or water courses.
Inform respective authorities in case of seepage into water course or sewage system.

Methods and Materials for Containment and Cleaning Up:
Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material.
Collect the spilled material and place into a suitable container for disposal. Use only non-sparking tools.

7 Handling and Storage

Precautions for Safe Handling:
Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust.
Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:
Store in a cool, dry and well ventilated area. Protect from direct sunlight. Keep container tightly closed. Store in the original container. Keep away from acids and oxidising agents.

8 Exposure Controls and Personal Protection

Exposure Standards:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls:
Ensure adequate ventilation of the working area. If natural ventilation is inadequate, use of a fan is suggested.

Respiratory Protection:
Respiratory protection is not required under normal use conditions. If unsure, see Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:
PVC gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.
When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.
Impervious occupational protective clothing, including apron, covering all skin areas (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:
Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:
Form: Liquid

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Colour:	Dark brown
Odour:	Mild ammonia-like
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/freezing point:	<0 °C
Initial Boiling Point/Boiling Range:	110 °C (at 100kPa)
Flash Point:	Not applicable
Flammability	Product is not flammable
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure at 20 °C:	2.37 kPa (water vapour pressure)
Relative Density:	Not determined.
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Completely soluble
Partition Coefficient (n-octanol/water):	No information available
Organic solvents:	
Physical state	Liquid

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid: Direct sunlight.

Incompatible Materials: Acids and oxidising agents.

Hazardous Decomposition Products:
If heated to dryness, followed by further strong heating, hazardous combustion products include carbon dioxide, carbon monoxide, nitrogen compounds, oxides of nitrogen, hydrogen cyanide gas (in reducing atmospheres), chloride gas, other chlorine compounds and smoke.

11 Toxicological Information

Toxicity:

LD50/LC50 Values:		
CAS: 94-75-7 (2,4-Dichlorophenoxy)acetic acid (ISO)		
Oral	LD50	>300 mg/kg (Rattus norvegicus (rat))
Dermal	LD50	2,000 mg/kg (Rattus norvegicus (rat))
Inhalation	LC50/4 h	>1.79 mg/l (Rattus norvegicus (rat))

Acute Health Effects
Inhalation: May cause respiratory irritation.
Skin: Causes severe skin burns.
Eye: Causes serious eye damage.
Ingestion: Not expected to be a hazard.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation:
May cause an allergic skin reaction.
May cause respiratory irritation.

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Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: Based on classification principles, the classification criteria are not met.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure: May cause respiratory irritation.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:
Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: No data associated with long term health effects.

Existing Conditions Aggravated by Exposure: No data available.

12 Ecological Information

Ecotoxicity:

Aquatic toxicity:
No adverse ecological effects are expected. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability: No data available on finished product.

Bioaccumulative Potential: No data available on finished product.

Mobility in Soil: No data available on finished product.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: 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

UN Number	
ADG, IMDG, IATA	UN3082
Proper Shipping Name	
ADG	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D)
Dangerous Goods Class	
ADG Class:	9
Packing Group:	
ADG, IMDG, IATA	III
Marine pollutant:	Yes
EMS Number:	F-A,S-F
Special Provisions:	274 335 375 601 650
Excepted quantities (EQ):	E1

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Limited Quantities: 5L

Packagings & IBCs - Packing Instruction: P001 IBC03 LP01 R001

Packagings & IBCs - Special Packing Provisions: PP1

Portable Tanks & Bulk Containers - Instructions: T4

Portable Tanks & Bulk Containers - Special Provisions: TP1 TP29

15 Regulatory Information

Australian Inventory of Industrial Chemicals:	
CAS: 94-75-7	(2,4-Dichlorophenoxy)acetic acid (ISO)
CAS: 61791-26-2	Amines, tallow alkyl, ethoxylated

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:
Not a scheduled poison.
Australian Pesticides and Veterinary Medicines Authority:
This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA approval number 90006.

16 Other Information

Date of Preparation or Last Revision: 16.06.2025

Prepared by: MSDS.COM.AU Pty Ltd www.msds.com.au

Abbreviations and acronyms:
ADG: Australian Dangerous Goods
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
IARC: International Agency for Research on Cancer
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)
Acute toxicity - oral – Category 4: Acute toxicity – Category 4
Eye damage/irritation – Category 1: Serious eye damage/eye irritation – Category 1
Skin sensitisation – Category 1: Skin sensitisation, Hazard Category 1
Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 3: Hazardous to the aquatic environment, short-term (Acute). Category 3
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term (Chronic). Category 3

Disclaimer
This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - June 2023”.
The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Titan Ag Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.