



## MATERIAL SAFETY DATA SHEET

### TITAN MCPA 750 SELECTIVE HERBICIDE

#### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	Titan MCPA750 Selective Herbicide
<b>Product Code</b>	-
<b>Other Names</b>	-
<b>Product Use</b>	Agricultural herbicide (as per label).
<b>Company Name</b>	Titan Ag Pty Ltd
<b>Address</b>	3/14 Narabang Way Belrose NSW 2085
<b>Telephone Number</b>	02 9986 2943
<b>Emergency Telephone</b>	02 9986 2943

#### 2. HAZARDS IDENTIFICATION

##### HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.

Classified as hazardous according to the criteria of Safe Work Australia.

<b>Hazards</b>	Xn - Harmful
<b>Risk Phrases</b>	R22 - Harmful if swallowed. R38 - Irritating to skin. R41 - Risk of serious eye damage.
<b>Safety Phrases</b>	S2 - Keep out of reach of children. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37 - Wear suitable gloves. S39 - Wear eye/face protection.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Ingredient (common name)</b>	<b>CAS Number</b>	<b>Proportion</b>
MCPA (present as the dimethylamine salt)	94-74-6	75%
Ingredients deemed not to be hazardous	-	To 100%

#### 4. FIRST AID MEASURES

<b>Inhalation</b>	If inhaled remove victim to fresh air. Seek medical attention if symptoms persist.
<b>Ingestion</b>	If swallowed, do not induce vomiting. Immediately rinse mouth with water. Seek immediate medical attention.
<b>Skin</b>	If skin contact occurs, immediately remove contaminated clothing and wash skin thoroughly with soap and water. Seek medical attention if symptoms persist.
<b>Eyes</b>	If in eyes, hold eyelids apart and flush the eye continuously with large amounts of water for at least 15 minutes. Seek immediate



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medical attention.

### 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	For major fires call the Fire Brigade. Ensure that an escape path is available from any fire. Use extinguishing media suitable to the surrounding fire.
<b>Hazardous Combustion Products</b>	Carbon monoxide, carbon dioxide and smoke.
<b>Firefighting Equipment</b>	Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
<b>Unusual Fire or Explosion Hazards</b>	Non combustible.
<b>Hazchem Code</b>	Not allocated.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Spills</b>	In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. Stop leak if safe to do so, and contain spill. Absorb onto clay, sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling and dispose of promptly.
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### 7. HANDLING AND STORAGE

<b>Handling</b>	Exercise normal care in handling. Avoid unnecessary skin and eye contact.
<b>Storage</b>	Store in the closed, original container in a dry, well ventilated area, out of direct sunlight. Keep container tightly sealed and make sure that the product does not come into contact with incompatible materials.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Standards (Safe Work Australia)</b>	No exposure standards set.
<b>Engineering Controls</b>	Use local exhaust ventilation.
<b>Respiratory Protection</b>	Usually no respirator is needed. If in doubt see Australian Standards AS/NZS 1715 and 1716 for more information.
<b>Eye Protection</b>	Protective glasses or goggles and face shield
<b>Skin Protection</b>	Impervious elbow-length gloves, cotton overalls and washable hat.
<b>Hygienic Practices</b>	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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear red-brown liquid
<b>Odour</b>	Ammonia odour
<b>Solubility in water</b>	Soluble
<b>Boiling Point</b>	No information available
<b>Melting Point</b>	No information available
<b>Vapour Pressure</b>	Negligible
<b>Vapour Density</b>	No information available
<b>Specific Gravity</b>	1.181
<b>Flash Point (closed cup)</b>	Not applicable
<b>Flammable Limit – Lower</b>	Not applicable
<b>Flammable Limit – Upper</b>	Not applicable

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions of use.
<b>Incompatible Materials</b>	Strong acids, bases and strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide and smoke.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Conditions to Avoid</b>	No information available.

### 11. TOXICOLOGICAL INFORMATION

<b>Toxicity</b>	<p><b>MCPA acid:</b>            Acute oral LD<sub>50</sub> (rat) = 700-1160mg/kg            Acute oral LD<sub>50</sub> (mice) = 550-800mg/kg            Acute dermal LD<sub>50</sub> (rat) &gt;1000mg/kg            Acute dermal LD<sub>50</sub> (rabbit) &gt;4000mg/kg</p> <p><b>Reproductive Effects:</b> No reproductive toxicity.  <b>Teratogenic Effects:</b> No evidence of teratogenic effects.  <b>Mutagenic Effects:</b> No evidence of mutagenic effects.  <b>Carcinogenic Effects:</b> No evidence of cancer.</p>
<b>Routes of Exposure</b>	Inhalation, ingestion, eye and skin
<b>Acute Health Effects</b>	<p>Inhalation: May cause mild irritation</p> <p>Ingestion: Harmful if ingested. May cause oral irritation, burning sensation and redness of skin in mouth and throat.</p> <p>Eye: May cause a severe eye irritation, redness and lacrimation.</p> <p>Skin: May cause skin irritation and redness.</p>
<b>Chronic Health Effects</b>	No information available.
<b>Existing Conditions</b>	No information available.
<b>Aggravated by Exposure</b>	



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### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	<b>Aquatic Organisms:</b> LC <sub>50</sub> 96hr (Rainbow trout) = 117-232 mg/L MCPA is practically non-toxic to freshwater invertebrates, and slightly toxic to freshwater fish. <b>Birds:</b> MCPA is moderately toxic to birds. Oral LD <sub>50</sub> ( Bob-white quail) = 377 mg/kg <b>Bees:</b> MCPA is non- toxic to bees with a reported oral LD <sub>50</sub> of 104 µg/bee.
<b>Mobility</b>	MCPA and its formulations are rapidly degraded in soil and have low persistence. Half life is 14 days to 1 month. In rice paddy water, MCPA is almost totally degraded by aquatic micro-organisms in two weeks.

### 13. DISPOSAL CONSIDERATIONS

<b>Disposal methods and containers</b>	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.
<b>Special precautions for landfill or incineration</b>	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.

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

### 15. REGULATORY INFORMATION

MCPA (present as the dimethylamine salt) is listed in the Australian Inventory of Chemical Substances (AICS).

**SUSDP Classification: S6**

### 16. OTHER INFORMATION

<b>Last Revision of MSDS</b>	Rev 1.0 (16/11/2009)	
<b>Prepared by</b>	MSDS.COM.AU Pty Ltd	<a href="http://www.msds.com.au">www.msds.com.au</a>



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### Abbreviations Used

IARC: International Agency for Research on Cancer  
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

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

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Please read instructions / label before using product.