

TITAN ASULAM 400 AQ HERBICIDE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Titan Asulam 400 AQ 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

NON HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.

Not classified as hazardous according to the criteria of ASCC.Hazards-Risk Phrases-Safety PhrasesS2 - Keep out of reach of children.
S24/25 - Avoid contact with skin and eyes.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name) asulam, sodium salt other ingredients deemed not to be hazardous	CAS Number 2302-17-2 proprietary	Proportion 40% 1-3%
water	7732-18-5	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 medical attention if symptoms persist.
Ingestion	If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
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 if symptoms persist.
Medical Advice	No specific antidote. Treat symptomatically.



5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	For major fires call the Fire Brigade. Ensure that an escape path is available from any fire. Water fog, foam, carbon dioxide and dry chemical.
Hazardous Combustion	Oxides of sulphur, carbon and nitrogen may be produced if burnt.
Products	
Firefighting Equipment	Wear ASCC approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or	There is no risk of an explosion from this product under normal
Explosion Hazards	circumstances if it is involved in a fire.
Hazchem Code	Not allocated.

6. ACCIDENTAL RELEASE MEASURES

Spills

Handling

In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing. Stop leak when safe to do so. Dike the area if the spills are large. Otherwise absorb the spill with sand, soil, sawdust or other absorbent material and collect into labelled containers for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water. Launder protective clothing before re-use.

7. HANDLING AND STORAGE

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)	No exposure standards set.
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 Skin Protection	Protective glasses or goggles and face shield. 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 Odour Solubility in Water Boiling Point Freezing Point Vapour Pressure Vapour Density (Air = 1) pH Flash Point (PMCC) Upper Flammability Limit Lower Flammability Limit Clear liquid Odourless Soluble ~ 100°C at 100kPa ~ 0°C 2.37kPa at 20°C No information available No information available Not flammable No information available No information available

10. STABILITY AND REACTIVITY

Chemical StabilitySIncompatible MaterialsAHazardous DecompositionCProductsBHazardous PolymerizationVConditions to AvoidD

Stable under normal storage conditions. Acids. Oxides of sulphur, carbon and nitrogen may be produced if burnt. Will not occur. Do not allow to freeze.

11. TOXICOLOGICAL INFORMATION

Toxicity	Asulam (sodium salt): Oral LD_{50} (rat) > 4000mg/kg Oral LD_{50} (mice) > 4000mg/kg Dermal LD_{50} (rat) > 1200mg/kg	
Routes of Exposure Health effects from likely routes of exposure	Inhalation, i Inhalation: Ingestion: Eye: Skin:	ngestion, eye and skin No adverse effects are anticipated from single exposure. No evidence of adverse effects in the short term ingestion. Can cause slight eye irritation, tearing and redness. May cause mild skin irritation.
Effects of Overexposure Existing Conditions Aggravated by Exposure Carcinogenicity	No informat	ion available. ion available. NTP, IARC)

4/03/2008



12. ECOLOGICAL INFORMATION

Ecotoxicity	Asulam (sodium salt): Aquatic organisms: LC_{50} (rainbow trout) > 5000mg/L LC_{50} (goldfish) > 5000mg/L LC_{50} (catfish) > 5000mg/L Birds: LD_{50} (mallard duck) >4000 mg/kg LD_{50} (pigeon) >4000 mg/kg Low toxicity to fish, birds and bees.
Mobility	This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

13. DISPOSAL CONSIDERATIONS

Disposal methods and	Instructions concerning the disposal of this product and its containers are given on the product label.
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

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

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

15. REGULATORY INFORMATION

Asulam sodium salt and water are listed in the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Last Revision of MSDS	Rev 1.0 (04/03/2008)
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.