

Safety Data Sheet according to WHS Regulations

Printing date 22.12.2021 Revision: 22.12.2021

1 Identification

Product Name: TITAN S-METOLACHLOR 960 HERBICIDE

Other Means of Identification: Mixture APVMA Approval Number: 69410

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 Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition), IATA and IMDG/IMSBC.

Not subject to the ADG Code when transported in Australia by Road or Rail in packagings that do not incorporate a receptacle exceeding 500 kg(L); or IBCs (refer to SP AU01). However if transported by Air or Sea, this provision does not apply.



Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Skin Sensitisation 1 H317 May cause an allergic skin reaction.

Signal Word Warning

Hazard Statements

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse. P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

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3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture: consisting of the following components.

Hazardous Components:		
CAS: 87392-12-9		>90%
0.0.0.04740.04.5	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♦ Skin Sensitisation 1, H317	.400/
CAS: 64/42-94-5	Solvent naphtha (petroleum), heavy arom.	<10%
	♦ Aspiration Hazard 1, H304	

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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Inaestion:

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

Information for Doctor: There is no specific antidote available. Treat symptomatically.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation.

Skin Contact: May cause skin irritation. May cause an allergic skin reaction.

Eye Contact: May cause eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

5 Fire Fighting Measures

Suitable Extinguishing Media:

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Fight larger fire with alcohol resistant foam or water spray. Do not use a water jet as it may scatter and spread fire.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include toxic and irritant vapours.

Product is not flammable. However, it will burn in larger fire.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Prevent run-off from fire fighting entering drains or water courses.

HAZCHEM Code: •3Z

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 approved protective equipment. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

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Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

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 drums and dispose of promptly. Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

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. Keep container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition.

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.

Respiratory Protection: Respiratory protection is not required under normal use conditions.

Skin Protection:

Elbow-length 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.

Occupational protective clothing, including cotton overall buttones to the neck and wrist, safety boots and washable hat (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

Colour: Clear liquid, yellowish to brown

Odour: Slight

Odour Threshold: No information available

pH-Value: 4-8 (1% w/v)

Melting point/freezing point:
Initial Boiling Point/Boiling Range:
No information available Initial Boiling Point/Boiling Range:
120 °C (DIN 51758)

Flammability: Product is not flammable. However, it will burn in larger fire.

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Auto-ignition Temperature: 430 °C

Decomposition Temperature: No information available

Explosion Limits:

Lower:
Upper:
No information available
No information available
No information available
No information available
1.085 - 1.125 g/cm³

Solubility in Water: Miscible **Viscosity at 20 °C:** 110.7 mPa·s

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: Heat, sparks, open flames and other sources of ignition.

Incompatible Materials: No further relevant information available. **Hazardous Decomposition Products:** Toxic and irritant vapours.

11 Toxicological Information

Toxicity:

LD50/LC50 Values:			
CAS: 87392-12-9 S-metolachlor			
Oral	LD50	1,200-2,780 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat)	
CAS: 64	CAS: 64742-94-5 Solvent naphtha (petroleum), heavy arom.		
Oral	LD50	5,000 mg/kg (rat)	
	LD50	2,000 mg/kg (rabbit)	

Acute Health Effects

Inhalation: May cause respiratory irritation.

Skin: May cause skin irritation. May cause an allergic skin reaction.

Eve: May cause eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

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

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

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

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

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

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

Specific Target Organ Toxicity (STOT) - Single Exposure:

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

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.

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Chronic Health Effects: Repeated exposure may cause allergic disorders. Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information:

The Australian Acceptable Daily Intake (ADI) for metolachlor for a human is 0.08 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 7.5 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2021).

12 Ecological Information

Ecotoxicity:

Aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

-			
CAS: 87392	CAS: 87392-12-9 S-metolachlor		
EC50/48 h	26 mg/l (daphnia)		
LC50/96 h	11.9 ppm (rainbow trout)		
EC50/120hr	0.008 mg/l (algae)		
CAS: 64742-94-5 Solvent naphtha (petroleum), heavy arom.			
EC50/48 h	12 mg/l (daphnia)		
EC50/72 h	2.5 mg/l (skeletonema costatum)		
LC50/96 h	45 mg/l (fathead minnow)		

Persistence and Degradability: Persistent in soil or water. Bioaccumulative Potential: Has medium mobility in soil.

Mobility in Soil: Does not bioaccumulate.

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, IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (S-metolachlor)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (S-metolachlor), MARINE POLLUTANT

Dangerous Goods Class

ADG Class: 9

Packing Group:

ADG, IMDG, IATA

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Marine pollutant: Symbol (fish and tree)

EMS Number: F-A,S-F **Hazchem Code:** •37

274, 331, 335, 375, AU01 Special Provisions:

Transport/Additional information: Not subject to the ADG Code when transported by road

or rail in packagings that do not incorporate a receptacle

exceeding 500 kg(L) or IBCs. (refer to SP AU01)

Limited Quantities:

P001, IBC03, LP01 Packagings & IBCs - Packing Instruction:

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:

All components are on the inventory, or in compliance with the inventory.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 5

Australian Pesticides and Veterinary Medicines Authority:

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA number 69410.

16 Other Information

Date of Preparation or Last Revision: 22.12.2021

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)

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1 Aspiration Hazard 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

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 - July 2020"

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 $\hbox{(Contd. of page 6)}\\ suitability of the information provided to the particular circumstances in which the product is used.}$