

#### **TITAN CLOPYRALID 300 HERBICIDE**

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Titan Clopyralid 300 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** R51 - Toxic to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic

environment.

Safety Phrases S2 - Keep out of reach of children.

S24/25 - Avoid contact with skin and eyes.

S61 - Avoid release to the environment. Refer to special

instructions/Material Safety Data Sheets.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)CAS NumberProportionclopyralid, tri isopropanolamine salt2302-17-2~ 51%other ingredients deemed not to beproprietary~ 49%

hazardous

## 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 immediate medical attention.

**Medical Advice** No specific antidote. Treat symptomatically.

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# 5. FIRE FIGHTING MEASURES

For major fires call the Fire Brigade. Ensure that an escape path is

available from any fire.

Suitable Extinguishing

Media

Water fog, foam, carbon dioxide and dry chemical.

**Hazardous Combustion Products** 

Firefighting Equipment

Unusual Fire or **Explosion Hazards**  Noxious fumes under fire conditions - hydrogen chloride and

others.

protective clothing. There is no risk of an explosion from this product under normal

Wear ASCC approved self-contained breathing apparatus and full

circumstances if it is involved in a fire.

Hazchem Code 2X

# **6. ACCIDENTAL RELEASE MEASURES**

**Spills** 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

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)

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.

Use an ASCC approved full face supplied air respirator if high **Respiratory Protection** 

airborne concentrations of the material are present. See Australian

Standards AS/NZS 1715 and 1716 for more information.

**Eve Protection Skin Protection**  Protective glasses or goggles and face shield. Elbow-length gloves and protective clothing.

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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 Green or blue liquid

Odour Odourless
Solubility in Water Miscible
Boiling Point 100 - 105°C

**Freezing Point Vapour Pressure**No information available 1.2 x 10<sup>-5</sup> mmHg at 20°C

Specific Gravity

pH

6-8 (undiluted)

Flash Point (PMCC)

Does not flash

Upper Flammability LimitNo information availableLower Flammability LimitNo information available

## 10. STABILITY AND REACTIVITY

**Chemical Stability**Stable under normal storage conditions. **Incompatible Materials**Acids, bases and oxidizing materials.

Hazardous Decomposition Noxious fumes under fire conditions – hydrogen chloride and

**Products** others.

Hazardous Polymerization Will not occur. Conditions to Avoid None known.

# 11. TOXICOLOGICAL INFORMATION

Toxicity Clopyralid (technical):

Oral  $LD_{50}$  (male rat) > 3738mg/kg Dermal  $LD_{50}$  (rabbit) = > 2000mg/kg

Inhalation  $LC_{50}$  (rat)= > 1000mg/m<sup>3</sup> for 4 hours

Routes of Exposure Inhalation, ingestion, eye and skin

Health effects from likely

routes of exposure

Inhalation: No adverse effects are anticipated from single

exposure to vapour or mist.

Ingestion: No evidence of adverse effects in the short term

ingestion. Swallowing large amounts may cause injury.

Eye: Can cause slight eye irritation. Skin: May cause mild skin irritation.

Effects of Overexposure

**Existing Conditions Aggravated by Exposure** 

Prolonged skin contact may cause skin irritation with redness.

No information available.

Carcinogenicity No (ASCC, NTP, IARC)

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# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Clopyralid (technical):

Aquatic organisms

 $LC_{50}$  (rainbow trout) = 103.5mg/L - 96 hours  $LC_{50}$  (*Daphnia magna*) = 225mg/L - 48 hours  $LC_{50}$  (green algae) = 6.9mg/L - 96 hours

Birds:

 $LD_{50}$  (mallard duck) = 1465 mg/kg – acute basis

This product is toxic to aquatic organisms and slightly toxic to

birds.

**Mobility** This product is not readily biodegradable. It rapidly degrades to

CO<sub>2</sub> in the soil (field half-life is 2-24 days), while slowly in water/sediment systems (half-life is 143-182 days).

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

#### 15. REGULATORY INFORMATION

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

SUSDP: 5

# **16. OTHER INFORMATION**

Last Revision of MSDS

Prepared by

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**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.

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