

TITAN IMIDACLOPRID 200 INSECTICIDE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Titan Imidacloprid 200 Insecticide

Product Code - Other Names -

Product Use Agricultural insecticide for use as described on the product label.

Company NameTitan Ag Pty LtdAddress3/14 Narabang WayBelrose 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 Xn – Harmful

Risk Phrases R22 - Harmful if swallowed.

Safety Phrases S20 - When using do not eat or drink.

S24/25 - Avoid contact with skin and eyes. S36 - Wear suitable protective clothing.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)CAS NumberProportionImidacloprid138261-41-3200g/LGlycerin56-81-5115g/LOther ingredients deemed not to beProprietary785g/L

hazardous

4. FIRST AID MEASURES

Inhalation If inhaled remove victim to fresh air. Remove contaminated clothing

and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Seek medical attention if

symptoms persist.

Ingestion Never give anything by mouth to an unconscious person.

If swallowed, do not induce vomiting. Immediately rinse mouth with

water. Seek immediate medical attention.

Skin If skin or hair contact occurs, immediately remove contaminated

clothing and wash skin and hair thoroughly. Seek medical attention

if symptoms persist.

Eyes If in eyes, hold eyelids apart and flush the eye continuously with

large amounts of water for at least 15 minutes. Seek medical

attention if symptoms persist.

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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

Carbon dioxide, dry chemical, foam and water fog.

Hazardous Combustion

Products

Fire decomposition products from this product may be toxic if

inhaled.

Firefighting Equipment

Wear ASCC approved self-contained breathing apparatus and full

protective clothing.

Unusual Fire or Explosion Hazards There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back

considerable distances.

C1 – Combustible liquid.

Hazchem Code

Spills

Not allocated.

6. ACCIDENTAL RELEASE MEASURES

In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face

water courses, vvear 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 open top

containers for recycling and dispose of promptly.

Final clean-up with degreasing agent or detergent is advised.

Launder protective clothing before storage or re-use.

7. HANDLING AND STORAGE

Handling Exercise normal care in handling. Avoid unnecessary skin and eye

contact.

Storage Store in the closed, original container in a dry well ventilated area. .

Do not store for prolonged periods in direct sunlight. Keep container

tightly sealed and do not store with incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards Glycerin (mist):

(ASCC)

TWA: -ppm /10mg/m³ STEL: - ppm / - mg/m³

Engineering Controls

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational

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exposure limits are not exceeded.

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.

Respiratory Protection Usually, no respirator is necessary when using this product.

Avoid working in and breathing spray mist.

Eye Protection Skin Protection Hygienic Practices Protective glasses or goggles and face shield.

Impervious elbow-length gloves, cotton overalls and washable hat. 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

Appearance White to slightly beige liquid suspension

Odour Mild, characteristic odour

Solubility in water Miscible

Boiling PointNo information available **Freezing Point**No information available

Vapour Pressure Not applicable Vapour Density (Air = 1) Not applicable

 Specific Gravity (@20°C)
 1.10

 pH
 7.0-8.5

 Flash Point (closed cup)
 >100°C

Flammable Limit – Lower

Flammable Limit – Upper

Auto-ignition Temperature

No information available
No information available

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal storage conditions.

Incompatible Materials Strong acids, strong bases and strong oxidising agents.

Hazardous Decomposition Carbon dioxide, and if combustion is incomplete, carbon

Products monoxide and smoke, nitrogen and its compounds, hydrogen

chloride gas and other compounds of chlorine.

Hazardous Polymerization Will not occur.

Conditions to Avoid Protect this product from light. Store in the closed original

container in a dry, cool, well-ventilated area out of direct sunlight.

11. TOXICOLOGICAL INFORMATION

Toxicity Reproductive Effects: A three generation reproduction study in

rats fed up to 700 ppm imidacloprid resulted in a NOEL of 100 ppm (equivalent to 8 mg/kg/day) based on decreased pup body weight

observed at the 250 ppm dose level.

Teratogenic Effects: Imidacloprid exposure is unlikely to be

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teratogenic in humans at expected exposure levels.

Mutagenic Effects: Imidacloprid may be weakly mutagenic.

Carcinogenic Effects: Imidacloprid is considered to be of minimal

carcinogenic risk.

Routes of Exposure Health effects from likely routes of exposure Inhalation, ingestion, eye and skin

Inhalation: Harmful if inhaled. May cause irritation to upper

respiratory tract.

Ingestion: May be harmful in case of ingestion.

Eye: Can cause irritation. Skin: Can cause irritation.

Effects of Overexposure Existing Conditions Aggravated by Exposure No information available. No information available.

Carcinogenicity

No (ASCC, NTP, IARC)

12. ECOLOGICAL INFORMATION

Ecotoxicity Birds:

Imidacloprid is toxic to upland game birds. Oral LD_{50} (Japanese quail) =31mg/kg Oral LD_{50} (Bob-white quail) =152mg/kg

Aquatic Organisms:

The toxicity of imidacloprid to fish is moderately low.

LC₅₀ 96hr (Rainbow trout) = 211mg/L

 LC_{50} 96hr (Carp) = 280mg/L EC_{50} 48hr (Daphnia) = 85mg/L

Imidacloprid is highly toxic to bees if used as a foliar application, especially during flowering, but is not considered a hazard to bees

when used as a seed treatment.

Environmental Fate:

This product is biodegradable. It will not accumulate in the soil or

water or cause long term problems.

Mobility The half-life of imidacloprid in soil is 48-190 days, depending on the

amount of ground cover (it breaks down faster in soils with plant

ground cover than in fallow soils).

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

UN Number Proper Shipping Name Not applicable Not applicable

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www.msds.com.au

Dangerous Goods ClassNot applicableHazchem CodeNot applicablePacking GroupNot applicableSpecial PrecautionsNot applicable

15. REGULATORY INFORMATION

Imidacloprid and glycerin are listed in the Australian Inventory of Chemical Substances (AICS).

SUSDP Classification: S5

16. OTHER INFORMATION

Last Revision of MSDS Rev 1.0 (18/08/2008)

Prepared by MSDS.COM.AU Pty Ltd

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.

This MSDS is prepared in accord with the ASCC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]

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