

Bayer Environmental Science

Safety Data Sheet

Starycide® Insect Growth Regulator



Version / AUS
102000017278

Revision Date: 23.07.2012

SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **Starycide® Insect Growth Regulator**
Other names: None
Product code (UVP): 79037848
Recommended use: Insecticide

Chemical formulation: Suspension concentrate (=flowable concentrate)(SC)

Company: Bayer CropScience Pty. Ltd.
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SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview	
HAZARDOUS SUBSTANCE	DANGEROUS GOODS
Hazardous classification:	Hazardous (National Occupational Health and Safety Commission - NOHSC).
R-phrases(s):	R36/38 - Irritating to eyes and skin. R43 - May cause sensitization by skin contact. R51 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s):	See sections 4, 5, 6, 7, 8, 10, 13.
ADG Classification:	Not a "Dangerous good" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. For transport by sea, Starycide Insect Growth Regulator is a MARINE POLLUTANT. See Section 14.
SUSMP classification (Poison Schedule):	Schedule 5 (Standard for the Uniform Scheduling of Medicines and Poisons).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Triflumuron 48 g/L

Chemical Name	CAS-No.	Concentration [%]
Triflumuron	64628-44-0	4.27
1,2-Benzisothiazol-3(2H)-one	2634-33-5	0.05
Mixture of 5-Chlor-2-methyl-3(2H)-	55965-84-9	0.10

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isothiazolon and 2-Methyl-2H-isothiazol-3-on		
Other ingredients (non-hazardous) to 100 %		

SECTION 4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Safety Data Sheet to the doctor.

Inhalation

Move the victim to fresh air and keep at rest. If symptoms persist, call a physician.

Skin contact

Take off contaminated clothing and shoes immediately. Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation or redness persists, see an ophthalmologist.

Ingestion

Keep at rest. If symptoms persist, call a physician.

Notes to physician

Treatment

Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray
Foam
Dry powder
Carbon dioxide (CO₂)
Sand

Hazards from combustion products

In the event of fire the following may be released:
Hydrogen chloride (HCl)
Hydrogen fluoride
Hydrogen cyanide (hydrocyanic acid)
Carbon monoxide (CO)
Nitrogen oxides (NO_x)

Precautions for fire-fighting

In the event of fire, wear self-contained breathing apparatus.
Contain the spread of the fire-fighting media.
Do not allow run-off from fire fighting to enter drains or water courses.

Hazchem Code •3Z

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment.
Avoid contact with spilled product or contaminated surfaces.
When dealing with a spillage do not eat, drink or smoke.

Environmental precautions

Contain contaminated water and fire fighting water.
Do not allow to get into surface water, drains and ground water.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Avoid dust formation.
Clean with detergents. Avoid solvents.

SECTION 7. HANDLING AND STORAGE

Handling

Hygiene measures:

When using, do not eat, drink or smoke.
Remove soiled clothing immediately and clean thoroughly before using again.
Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
Wash hands immediately after work, if necessary take a shower.

Storage

Requirements for storage areas and containers:

Keep out of the reach of children.
Protect against moisture.
Keep away from direct sunlight.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed.

Suitable materials:

HDPE (high density polyethylene)

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards

No exposure standard has been assigned by the National Occupational Health and Safety Commission (Worksafe Australia) for the product or its ingredients.

Personal protective equipment - End user

General advice: Eye wash facility and safety shower should be available.
Follow all label instructions.

Respiratory protection: No personal respiratory protective equipment normally required.

Hand protection: Elbow-length PVC or nitrile gloves.

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Engineering controls

Advice on safe handling:

No engineering controls are required for the normal use of this product according to labeled directions for use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form:	Liquid, suspension
Colour:	Tan to grey
Odour:	Slight

Safety data

pH:	6.0 - 8.0 at 100 % (20 °C)
Flash point:	No data available
Ignition temperature:	No data available
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Density:	ca. 1.12 g/cm ³ at 20 °C
Water solubility:	No data available
Partition coefficient: n-octanol/water:	No data available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions.
Conditions to avoid:	Extremes of temperature and direct sunlight.
Hazardous decomposition products:	Thermal decomposition can lead to release of: Hydrogen chloride (HCl) Hydrogen fluoride Hydrogen cyanide (hydrocyanic acid) Carbon monoxide Nitrogen oxides (NO _x)
Hazardous reactions:	No dangerous reaction known under conditions of normal use.

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SECTION 11. TOXICOLOGICAL INFORMATION

Potential health effects

Inhalation: May cause irritation.

Skin: Irritating to skin.

Eye: Causes eye irritation.

Animal toxicity studies

Acute oral toxicity: LD₅₀ (rat) > 5,000 mg/kg
The value mentioned relates to the active ingredient triflumuron.

Acute dermal toxicity: LD₅₀ (rat) > 5,000 mg/kg
The value mentioned relates to the active ingredient triflumuron.

Skin irritation: Slight irritation (rabbit).
The value mentioned relates to the active ingredient triflumuron.

Eye irritation: No eye irritation (rabbit).
The value mentioned relates to the active ingredient triflumuron.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish: LC₅₀ (*Oncorhynchus mykiss* (Rainbow trout)) > 320 mg/L
Exposure time: 96 h
The value mentioned relates to the active ingredient triflumuron.

Toxicity to fish: LC₅₀ (*Leuciscus idus* (Golden orfe)) > 100 mg/L
Exposure time: 96 h
The value mentioned relates to the active ingredient triflumuron.

Toxicity to aquatic invertebrates: EC₅₀ (*Daphnia magna* (Water flea)) 0.23 mg/L
Exposure time: 48 h
The value mentioned relates to the active ingredient triflumuron.

Toxicity to aquatic plants: EC₅₀ (*Scenedesmus quadricauda* (Green algae)) > 25 mg/L
Exposure time: 96 h
The value mentioned relates to the active ingredient triflumuron.

Toxicity to other organisms: LD₅₀ (*Colinus virginianus* (Bobwhite quail)) 561 mg/kg
The value mentioned relates to the active ingredient triflumuron.

SECTION 13. DISPOSAL CONSIDERATIONS

Rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Dispose of at a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

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SECTION 14. TRANSPORT INFORMATION

ADG

UN-Number	3082
Class	9
Subsidiary Risk	None
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIFLUMURON SOLUTION)
Hazchem Code	•3Z

According to AU01, Environmentally Hazardous Substances in packagings, IBC or any other receptacle not exceeding 500 kg or 500 L are not subject to the ADG Code.

IMDG

UN-Number	3082
Class	9
Subsidiary Risk	None
Packaging group	III
EmS	F-A , S-F
Marine pollutant	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIFLUMURON SOLUTION)

IATA

UN-Number	3082
Class	9
Subsidiary Risk	None
Packaging group	III
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIFLUMURON SOLUTION)

SECTION 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994.

Australian Pesticides and Veterinary Medicines Authority approval number: 61251.

See also Section 2.

SECTION 16. OTHER INFORMATION

Trademark information

Starycide® is registered trademark of the Bayer Group.

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

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If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Reason for revision: Changed name from Material Safety Data Sheet to Safety Data Sheet.

END OF SDS

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