

Material Safety Data Sheet

EXOTHOR™ Insect Growth Regulator

Section 1 - IDENTIFICATION OF CHEMICAL PRODUCT AND COMPANY

This product is **NOT** classified as Hazardous according to the criteria of NOHSC Australia.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

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Substance: Insect Growth Regulator.

Trade Names: EXOTHOR Insect Growth Regulator

Product Use: Insect growth regulator to prevent emergence of adult house flies, fleas and cockroaches.

Creation Date: November 2013

Last Reviewed & Updated on: February 2014

Section 2 - HAZARDS IDENTIFICATION

Statement of Hazardous Nature

This product is NOT classified as hazardous according to the criteria of NOHSC Australia.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Safety Phrases: May irritate the eyes.

SUSDP Classification: S5.

ADG Classification: None allocated. Not a Dangerous Good.

UN Number: None allocated.

Emergency Overview

Physical Description & colour: Beige granule.

Odour: Mild odour.

Major Health Hazards: May irritate eyes.

Potential Health Effects

Inhalation: Non toxic.

Skin Contact: Non toxic.

Eye Contact: May irritate the eyes.

Ingestion: Non toxic.

Carcinogen Status:

NOHSC: No significant ingredient is classified as carcinogenic by NOHSC.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

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Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS No | Conc.% | TWA (mg/m ³) | STEL (mg/m ³) |
|---------------------------------|------------|---------------|--------------------------|---------------------------|
| diflubenzuron | 35367-38-5 | 20% | not set | not set |
| Other non hazardous ingredients | | secret to 100 | not set | not set |

This is a commercial product whose exact ratio of components may vary slightly.

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - FIRST AID MEASURES

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned or irritated by this product. The number is 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

Inhalation: Remove from source of exposure. If signs of toxicity occur contact a Poisons Information Centre or a doctor. Provide symptomatic supportive care as necessary.

Skin Contact: Wash skin with soap and water. If signs of toxicity occur contact a Poisons Information Centre or a doctor. Provide symptomatic supportive care as necessary.

Eye Contact: Gently remove dust from eyes. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.

Ingestion: If product is swallowed or gets in mouth, wash mouth with water and spit out. If signs of toxicity occur contact a Poisons Information Centre or a doctor. Provide symptomatic supportive care as necessary.

Advice to Doctor: Provide symptomatic supportive care as necessary.

Section 5 - FIRE FIGHTING MEASURES

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Fire decomposition products from this product are unlikely to be toxic if inhaled.

Extinguishing Media: Preferred extinguishing media are carbon dioxide, dry chemical, foam, water fog.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Not flammable.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

Autoignition temperature: Does not burn.

Flammability Class: Does not burn.

Section 6 - ACCIDENTAL RELEASE MEASURES

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls and gloves. Suitable materials for protective clothing include rubber.

Contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions.

After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label.

If there is any conflict between this MSDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - HANDLING AND STORAGE

Handling: Avoid contact with eyes. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Keep containers dry and away from water. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

Section 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

The following Australian Standards will provide general advice regarding safety clothing and equipment:
Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Exposure limits have not been established by NOHSC for any of the significant ingredients in this product.

Ventilation: No special ventilation requirements are normally necessary for this product.
Eye Protection: Wear suitable protective glasses, goggles or a face shield.
Respiratory Protection: Not normally required. If in doubt, wear a dust mask to prevent inhalation.
Skin Protection: When preparing product for use wear elbow-length PVC gloves. If applying by hand wear elbow-length PVC gloves. Wash hands after use. After each day's use, wash gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Description & colour: Tan - grey granule.
Odour: Mild odour.
Volatiles: No specific data. Expected to be low at 100°C.
Vapour Pressure: Negligible at normal ambient temperatures.
Water Solubility: Disperses readily in water.
pH: No data.
Volatility: Negligible at normal ambient temperatures.

Section 10 - STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
Conditions to Avoid: Containers should be kept dry. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.
Incompatibilities: Strong acids, strong bases, strong oxidising agents.
Fire Decomposition: No specific data.
Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity Oral: LD50 (rat): >4,600 mg/kg
Dermal: LD50 (rabbit): >2,000 mg/kg (highest dose level tested)
Inhalation: LC50 (rat): Not applicable to this product form

CHRONIC TOXICITY Diflubenzuron is not considered as an oncogenic compound.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY Diflubenzuron is not a teratogenic compound.

MUTAGENICITY Diflubenzuron is not a mutagenic compound

Section 12 - ECOLOGICAL INFORMATION

Degrades moderately fast in water. Degrades rapidly in sediments. Soil half life: ~3 days. Low toxicity to fish.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal: Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.

Section 14 - TRANSPORT INFORMATION

ADG Code: This product is not a Dangerous Good. No special transport conditions necessary.

Section 15 - REGULATORY INFORMATION

AICS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

Section 16 - OTHER INFORMATION

This MSDS contains only safety-related information. For other data see product literature.

Acronyms:

| | |
|-----------------------|--|
| ADG Code | Australian Code for the Transport of Dangerous Goods by Road and Rail |
| AICS | Australian Inventory of Chemical Substances |
| CAS number | Chemical Abstracts Service Registry Number |
| Hazchem Number | Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters |
| IARC | International Agency for Research on Cancer |
| NOHSC | National Occupational Health and Safety Commission |
| NOS | Not otherwise specified |
| NTP | National Toxicology Program (USA) |
| R-Phrase | Risk Phrase |
| SUSDP | Standard for the Uniform Scheduling of Drugs & Poisons |
| UN Number | United Nations Number |

This MSDS 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 must review this MSDS in the context of how the product will be handled and used in the workplace.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Ensystem so we can attempt to obtain additional information from our suppliers. 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.

Please read all labels carefully before using product.