

Section 1 - Identification of The Material and Supplier

Ensysrex Australasia Pty Ltd
Warehouse D, Building 6, The Switchyard
161 Manchester Road Auburn NSW 2144
13 35 36 (all hours)

Ensysrex New Zealand Ltd
17C Corinthian Drive
Albany, Auckland 0752
0800 ENSYSEX (0800 367 978)

Chemical nature: Amorphous silica

Trade Name: **DIATHOR™ Flowable Long-Term Insect Killer**

Product Use: Ready-to-use insect killer for use as described on the product label.

Creation Date: **January, 2023**

This version issued: **October, 2023** and is valid for 5 years from this date.

Section 2 - Hazards Identification**Statement of Hazardous Nature**

This product is classified as: Not classified as hazardous according to the criteria of SWA.

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

Risk Phrases: None allocated.

Safety Phrases: None allocated.

SUSMP Classification: None allocated

ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMSBC criteria.

IATA: Non-Hazardous for Air Transport.

UN Number: None allocated.

**GHS Signal word: WARNING****HAZARD STATEMENT:**

H335: May cause respiratory irritation.

PREVENTION

P102: Keep out of reach of children.

P261: Avoid breathing dust.

RESPONSE

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER/doctor if you feel unwell.

STORAGE

P405: Store locked up.

DISPOSAL

P501: Dispose of contents and containers as specified on the label.

Emergency Overview

Physical Description & Colour: White powder.

Odour: Odourless.

Major Health Hazards: Amorphous silica may cause respiratory irritation. Avoid contact with skin and eyes.

Potential Health Effects**Inhalation:**

Short Term Exposure: This product may cause respiratory irritation. Product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

Long Term Exposure: Long term inhalation of high amounts of any nuisance dust may overload lung clearance mechanism. No data for health effects associated with long term inhalation.

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Skin Contact:

Short Term Exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use.

Long Term Exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short Term Exposure: Available data indicates that this product is not harmful. It should present on hazards in normal use.

Long Term Exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short Term Exposure: Significant oral exposure is considered to be unlikely. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

Long Term Exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

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

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

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

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, %	TWA (mg/m ³)	STEL (mg/m ³)
Amorphous silica	112945-52-5	45	not set	not set
Silicon dioxide	112926-00-8	55	not set	not set

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

The SWA 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 may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated 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, burned 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 SDS with you when you call.

Inhalation: No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Skin Contact: Gently brush away excess particles. It may cause dryness. Rinse skin with soap and plenty of water until product is removed, apply moisturising cream. If continued discomfort or irritation persists, seek medical advice.

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes, while holding the eyelid(s) open. Take special care if exposed person is wearing contact lenses. If continued discomfort or irritation persists, seek medical advice.

Ingestion: If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. 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 may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media: In case of fire, use carbon dioxide, dry chemical, foam, water fog. Water fog or fine spray is preferred for large fires.

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

Flash point: Not available.

Upper Flammability Limit: Not available.

Autoignition temperature: Not available.

Lower Flammability Limit: Not available.

Flammability Class: Not available.

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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 goggles. There are no specific manufacturer recommendations for protective equipment materials. Eye/face protective equipment should comprise as a minimum, protective glasses and, preferably, goggles. If there is a significant chance that dusts are likely to build up in clean-up area, we recommend that you use a respiratory protective device. Otherwise, not normally necessary.

Collect spilt product into labelled containers for recycling and dispose of promptly. Recycle containers wherever possible when empty. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Avoid contact with eyes, skin, and clothing. Do not contaminate with pesticides. Check Section 8 of this SDS 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: This product is not a Scheduled Poison. Keep containers dry and away from water. Store in the closed original container in a dry, well-ventilated area. 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**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits

TWA (mg/m³)

STEL (mg/m³)

Silicon dioxide

10

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No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: No special ventilation requirements are normally necessary for this product. However, make sure that the work environment remains clean and that dusts are minimised.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used.

Skin Protection: The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary.

Protective Material Types: There is no specific recommendation for any particular protective material type.

Respirator: If there is a significant chance that dusts are likely to build up in the air use a P2 dust mask. Otherwise, not normally necessary.

Section 9 - Physical and Chemical Properties

Physical Description & colour: White powder.

Odour: Odourless.

Boiling Point: Not available.

Freezing/Melting Point: Not available.

Volatiles: Not available.

Vapour Pressure: Not applicable.

Specific Gravity: No data.

Water Solubility: Not available.

pH: Not applicable.

Volatility: Not available.

Odour Threshold: No data.

Coeff Oil/water Distribution: Not available.

Autoignition temp: Not available.

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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: No data available.

Incompatibilities: No data available.

Fire Decomposition: No dangerous decomposition products known.

Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Toxicity: Amorphous silica is generally considered a nuisance dust of low toxicity. Silicon dioxide is listed in 21 CFR (Code of Federal Regulations, USA) in § 172.480 as an "anticaking agent" in food which "may be safely used" with a limitation of <2 %.

Based on available data, the classification criteria of acute toxicity, skin corrosion/irritation, serious eye damage/irritation, respiratory or skin sensitisation, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT-RE, and aspiration hazard indicate the product is non-toxic.

Classification of Hazardous Ingredients

Ingredient

Risk Phrases

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

Section 12 - Ecological Information

Amorphous silica is an inorganic water insoluble substance. For this reason, its bioavailability is very low for aquatic organisms.

In acute tests according to OECD test guidelines with fish and daphnia, nominal concentrations of 1000 and 10000 mg/L respectively showed no effects. Based on the physical chemical and acute toxicological data no chronic effects and no bioaccumulation are expected in aquatic organisms. The general guidelines for the examination of the biodegradability of substances (OECD-, EEC-guidelines) can be used only for organic substances. Amorphous silica is an inert inorganic substance and will not be degraded by microorganisms. The German commission for the evaluation of water polluting substances has classified synthetic amorphous silica as a none water endangering substance (KBwS-No: 849). Silica is also included in the OSPAR List of Substances / Preparations Used and Discharged Offshore which are Considered to Pose Little or No Risk to the Environment (PLONOR).

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

ADG Code: This product is not classified as Dangerous Goods. No special transport conditions are necessary unless required by other regulations.

IATA: Non-Hazardous for Air Transport.

Section 15 - Regulatory Information

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

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Section 16 - Other Information

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

If there is any conflict between this SDS and the registered label, instructions on the label prevail.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

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 MUST REVIEW THIS SDS 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 THIS COMPANY 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.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)

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