

## Section 1 - Identification of The Material and Supplier

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**Chemical nature:** Hydrophobic silicate.

**Trade Name:** **DIATHOR™ Bed Bug Killer Aerosol**

**Product Use:** Ready-to-use insect Aerosol.

**Creation Date:** **October, 2014**

**This version issued:** **July, 2024** and is valid for 5 years from this date.

## Section 2 - Hazards Identification

### Statement of Hazardous Nature

This product is classified as: Hazardous according to the criteria of SWA.

**Risk Phrases:** R12 Extremely Flammable.

**Safety Phrases:** S2, S23, S25. Keep out of reach of children. Do not breathe spray. Avoid contact with eyes.

**SUSMP Classification:** Exempt.

**ADG Classification:** Classified as Dangerous Goods by the criteria of the ADG Code.

**UN Number:** 1950 2.1



### GHS Signal word: DANGER

#### HAZARD STATEMENT:

H222: Extremely flammable aerosol.

H333: Maybe harmful if inhaled.

#### PREVENTION

P102: Keep out of reach of children.

P210: Keep away from heat, hot surface, sparks, open flames and other ignition sources. – No smoking.

P211: Do not spray on an open flame or other ignition source.

P234: Keep only in original container.

P251: Do not pierce or burn, even after use.

P261: Avoid breathing spray.

P281: Use personal protective equipment as required.

#### RESPONSE

P309: If exposed or if you feel unwell, seek medical attention.

P337: If eye irritation persists: seek medical attention.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, coarse water spray.

#### STORAGE

P402: Store in a dry place.

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### DISPOSAL

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

## Emergency Overview

**Physical Description & Colour:** White liquid.

**Odour:** Mild characteristic odour.

**Major Health Hazards:** No significant risk factors have been found for this product. Avoid contact with eyes.

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### Potential Health Effects

**Inhalation:**

**Short Term Exposure:** Available data indicates that this product is not harmful. However 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.

**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:** Spray from product may cause mechanical irritation if it gets in eyes.

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

**Ingestion:**

**Short Term Exposure:** 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 <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Amorphous silica	68909-20-6	1.2	not set	not set
Propane/Butane Propellant Blend	68476-85-7	20-40	not set	not set
Inert solvent	various	>60	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. Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until product is removed.

**Eye Contact:** Quickly and gently brush particles 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. Take special care if exposed person is wearing contact lenses.

**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.

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## Section 5 - Fire Fighting Measures

**Fire and Explosion Hazards:** Highly flammable. There is moderate risk of an explosion from this product if commercial quantities are involved in a fire. Fire-fighters should take care and appropriate precautions. 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. AEROSOL CANS may explode at temperatures approaching 50°C.

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. Try to contain spills, minimise spillage entering drains or water courses.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade. There is a danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus.

<b>Flash point:</b>	Highly flammable.	<b>Upper Flammability Limit:</b>	No data.
<b>Lower Flammability Limit:</b>	No data.	<b>Autoignition temperature:</b>	No data.
<b>Flammability Class:</b>	Highly Flammable.	<b>Hazchem code:</b>	2Y

## 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 suitable Dust Mask. 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:** 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**.

<b>SWA Exposure Limits</b>	<b>TWA (mg/m<sup>3</sup>)</b>	<b>STEL (mg/m<sup>3</sup>)</b>
Exposure limits have not been established by SWA for any of the significant ingredients in this product.		

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.

## SAFETY DATA SHEET

## Section 9 - Physical and Chemical Properties:

<b>Physical Description &amp; colour:</b>	White liquid spray.
<b>Odour:</b>	Mild characteristic.
<b>Boiling Point:</b>	Not available.
<b>Freezing/Melting Point:</b>	No specific data.
<b>Volatiles:</b>	>60%.
<b>pH:</b>	>9.
<b>Coeff Oil/water Distribution:</b>	No data.
<b>Autoignition temp:</b>	No data.

## 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. Keep away from sources of sparks or ignition. Any electrical equipment in the area of this product should be flame proofed.

**Incompatibilities:** strong acids, strong bases.

**Fire Decomposition:** N/A

**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 %. Acute toxicity studies: No mortalities were observed for the oral and inhalation studies. For the primary eye irritation study, there was no corneal opacity or iridial irritation in any of the eyes. For the dermal study, there was no dermal irritation at 72 hours. For the acute toxicity study, the oral LD50 is >5,000 mg/kg. For the acute inhalation study, the LC50 is >2.08 mg/L.

Mutagenic studies: No indication of any mutagenic activity.

Butane LC50 (Inhalation): 658 g/m<sup>3</sup>/4 hours (rat).

## 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 biodegraded by microorganisms. The German commission for the evaluation of water polluting substances has classified synthetic amorphous silica as a not 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 carefully followed.

## SAFETY DATA SHEET

## Section 14 - Transport Information

**ADG Code:** Classified as a Dangerous Good by the criteria of the ADG Code.

UN number:	1950
Proper shipping name:	Aerosol, flammable
Transport hazard class:	2.1
Picking group:	None allocated
DG class:	None allocated
Subsidiary risk(s):	None allocated
Hazchem code:	2Y
EPG:	2D1

## 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 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:

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

Issued by: Ensysstex Australasia Pty Ltd

Phone: 13 35 36 (ALL HOURS)

**Poisons Information Centre: 13 11 26 from anywhere in Australia, (0800 764 766 in New Zealand)**