SAFETY DATA SHEET

According to Safe Work Australia

Printing date 03.12.2016 Revision: 03.12.2016

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: STARRDUST®PRO INSECTICIDAL DUSTING POWDER INDUSTRIAL STRENGTH

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use: Insecticide

Details of Manufacturer or Importer:
Sundew Solutions Pty Ltd
Unit 11, 4 Dunlop Court
Bayswater VIC 3153

Phone Number: 1800 786 339

Emergency telephone number: 1800 786 339

2 . HAZARDS IDENTIFICATION

Hazardous Nature:
Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

environment

Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.

Acute Toxicity (Inhalation) 4	H332	Harmful if inhaled.
Skin Sensitisation 1	H317	May cause an allergic skin reaction.

Signal Word Warning

Hazard Statements
H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P321 Specific treatment (see on this label).
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of water.

(Contd. on page 2)

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 03.12.2016 Revision: 03.12.2016

Product Name: STARRDUST®PRO INSECTICIDAL DUSTING POWDER INDUSTRIAL STRENGTH

(Contd. of page 1)

P391 Collect spillage.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:		
52645-53-1	permethrin (ISO) Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Toxicity (Oral) 4, H302; Acute Toxicity (Inhalation) 4, H332; Skin Sensitisation 1, H317	2%
64628-44-0	Triflumuron Acute Toxicity (Inhalation) 1, H330	0.5%

4 . FIRST AID MEASURES

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:
In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap for at least 20 minutes. Seek medical attention if symptoms occur.

Eye Contact:
In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:
If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:
Inhalation: May be harmful if inhaled.
Skin Contact: Mildly irritating.This product may cause sensitisation by skin contact, which is reversible and usually subside within 12 hours.
Eye Contact: May cause eye irritation.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
Water spray or fog, foam, dry chemical or carbon dioxide. Do not use high volume water jet.

Specific Hazards Arising from the Chemical:
Hazardous combustion products include oxides of carbon and hydrogen chloride.

Special Protective Equipment and Precautions for Fire Fighters:
When fighting a major fire wear self-contained breathing apparatus and protective equipment.

(Contd. on page 3)

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 03.12.2016 Revision: 03.12.2016

Product Name: STARRDUST®PRO INSECTICIDAL DUSTING POWDER INDUSTRIAL STRENGTH

(Contd. of page 2)

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:
Wear approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

Environmental Precautions: In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:
Stop leak if safe to do so and cover with a plastic sheet to prevent spreading. Sweep and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation.

7 . HANDLING AND STORAGE

Precautions for Safe Handling:
Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust.
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.
Contaminated work clothing must not be allowed out of the workplace.

Conditions for Safe Storage:
Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from direct sunlight. Keep away iron, oxidizing agents, strong acids and halogenated compounds.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:	
14807-96-6 Talc ($Mg_3H_2(SiO_3)_4$)	
WES	TWA: 2.5 mg/m³

Engineering Controls:
Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below the limits.

Respiratory Protection:
Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:
Impervious nitrile rubber or PVC gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.
Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:
Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

(Contd. on page 4)

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 03.12.2016 Revision: 03.12.2016

Product Name: STARRDUST®PRO INSECTICIDAL DUSTING POWDER INDUSTRIAL STRENGTH

(Contd. of page 3)

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	
Form:	Powder
Colour:	White
Odour:	Odourless
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Flammability:	No information available
Auto-ignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	Not applicable
Density:	No information available
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	No information available

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Direct sunlight.

Incompatible Materials: Iron, oxidizing agents, strong acids and halogenated compounds.

Hazardous Decomposition Products: Oxides of carbon and hydrogen chloride.

11 . TOXICOLOGICAL INFORMATION

Toxicity:
LD_{50}/LC_{50} Values Relevant for Classification: No information available

Acute Health Effects
Inhalation: May be harmful if inhaled.
Skin:
Mildly irritating.This product may cause sensitisation by skin contact, which is reversible and usually subside within 12 hours.
Eye: This product is a mild irritant if dust enters the eyes.
Ingestion: Ingestion is not considered a potential route of exposure.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: Sensitisation possible through skin contact.

(Contd. on page 5)

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 03.12.2016 Revision: 03.12.2016

Product Name: STARRDUST®PRO INSECTICIDAL DUSTING POWDER INDUSTRIAL STRENGTH

(Contd. of page 4)

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity:
Talc not containing asbestos or asbestiform fibres is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:
Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:
Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: No information available

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information:
The Australian Acceptable Daily Intake (ADI) for permethrin for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 5 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', March 2016).
The Australian Acceptable Daily Intake (ADI) for triflumuron for a human is 0.007 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.7 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', March 2016).

12 . ECOLOGICAL INFORMATION

Ecotoxicity:
Permethrin is practically non-toxic to birds.
Triflumuron is toxic to bees

Aquatic toxicity:
Permethrin and triflumuron are toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Persistence and Degradability:
Permethrin is of low to moderate persistence in the soil environment, with reported half-lives of 30 - 38 days.

Bioaccumulative Potential: No information available

Mobility in Soil: Permethrin is not very mobile in a wide range of soil types.
Other adverse effects: No information available

13 . DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: 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.

(Contd. on page 6)

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 03.12.2016 Revision: 03.12.2016

Product Name: STARRDUST®PRO INSECTICIDAL DUSTING POWDER INDUSTRIAL STRENGTH

(Contd. of page 5)

14 . TRANSPORT INFORMATION

UN Number
ADG Not regulated
IMDG, IATA UN3077

Proper Shipping Name
ADG Not regulated
IMDG, IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN MIXTURE)

Dangerous Goods Class
ADG Class: Not regulated
IMDG Class: 9 Miscellaneous dangerous substances and articles.

Packing Group:
ADG Not regulated
IMDG, IATA III

EMS Number: F-A,S-F

Hazchem Code: 2Z

Special Provisions: 179, 274, 331, 335, AU01

Limited Quantities: 5 kg

Packagings & IBCs - Packing Instruction: P002, IBC08, LP02

Packagings & IBCs - Special Packing Provisions: PP12, B3

Portable Tanks & Bulk Containers - Instructions: T1, BK2

Portable Tanks & Bulk Containers - Special Provisions: TP33

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:	
52645-53-1	permethrin (ISO)
64628-44-0	Triflumuron
14807-96-6	Talc (Mg3H2(SiO3)4)

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 5

16 . OTHER INFORMATION

Date of Preparation or Last Revision: 03.12.2016

Prepared by: MSDS.COM.AU Pty Ltd www.msds.com.au

Abbreviations and acronyms:
ADG: Australian Dangerous Goods
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals

(Contd. on page 7)

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 03.12.2016 Revision: 03.12.2016

Product Name: STARRDUST®PRO INSECTICIDAL DUSTING POWDER INDUSTRIAL STRENGTH

(Contd. of page 6)

CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC_{50}: Lethal concentration, 50 percent
LD_{50}: Lethal dose, 50 percent
IARC: International Agency for Research on Cancer
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)
Acute Toxicity (Oral) 4: Acute toxicity – Category 4
Acute Toxicity (Inhalation) 1: Acute toxicity – Category 1
Skin Sensitisation 1: Skin sensitisation, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011”

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Sundew Solutions Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.