

# SAFETY DATA SHEET

# Section 1 - Identification

Other means of identification

**SDS No.** 796

Recommended use of the chemical and restrictions on use

Recommended use Insecticide.

**Restrictions on use** No other uses are advised.

Keep out of the Reach of Children!

Details of manufacturer or importer

**Company name** AgNova Technologies Pty Ltd **Address** Unit 4, 482 Kingsford Smith Drive

Hamilton, Queensland 4007

Australia

Telephone AgNova Technologies Pty 03 9899 8100 (office hours)

Ltd

Website agnova.com.au info@agnova.com.au

Emergency phone number IXOM ERS 1800 033 111 (24 hours)

Poisons Information 13 11 26

Centre

# Section 2 - Hazard(s) identification

# Classification of the hazardous chemical

Physical hazards Not classified.

**Health hazards** Acute toxicity, oral Category 4

Sensitisation, skin Category 1

Environmental hazards Hazardous to the aquatic environment, acute Category 1

azard

Hazardous to the aquatic environment, Category 1

long-term hazard

## Label elements, including precautionary statements

Hazard symbol(s)





**Exclamation Environment** 

mark

Signal word Warning

Hazard statement(s)

Harmful if swallowed.

May cause an allergic skin reaction.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention Avoid breathing dust/smoke

Wear protective gloves.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Response IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. Rinse mouth.

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical

advice/attention.

Take off contaminated clothing and wash it before reuse.

Collect spillage.

Storage Not available.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

**Supplemental information**This is a pesticide product registered in Australia under the Australian Pesticides and Veterinary

Medicines Authority (APVMA) and is subject to certain labeling requirements. These

requirements may differ from the classification criteria and hazard information required for GHS compliant safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

Other hazards which do not result in classification

None known.

# Section 3 - Composition and information on ingredients

#### **Mixture**

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Permethrin	52645-53-1	13.5 %
Potassium chlorate	3811-04-9	10 - 30 %
Talc (Mg3H2(SiO3)4)	14807-96-6	30 - 60 %
Other components below reportable levels		11.5

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**Composition comments** Occupational Exposure Limits for impurities are listed in Section 8.

#### Section 4 - First aid measures

#### Description of necessary first aid measures

**Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the

substance. If experiencing respiratory symptoms: call a poison centre or doctor / physician. Call a

physician if symptoms develop or persist.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. Wash

contaminated clothing before reuse. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content

doesn't get into the lungs. Get medical advice/attention if you feel unwell. Do not give anything by

mouth to an unconscious person. Have person sip a glass of water if able to swallow.

Personal protection for first-aid

responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated

clothing before reuse.

**Symptoms caused by exposure** May cause an allergic skin reaction. Dusts may irritate the respiratory tract, skin and eyes.

Difficulty in breathing. Dermatitis. Rash.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

# Section 5 - Firefighting measures

**Extinguishing media** 

Suitable extinguishing

equipment

Water spray, wet sand or wet earth. Foam. Carbon dioxide (CO2).

Unsuitable extinguishing

equipment

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Not classified as an oxidizer at the manufactured concentration. If concentrated by evaporation this product may become an oxidizer and can sustain combustion. Contact with oxidizable substances may result in ignition, violent combustion or explosion. Greatly increases the burning rate of combustible materials. Containers may explode when heated. During fire, gases

hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers. Prevent fire extinguishing water from  $% \left( 1\right) =\left( 1\right) \left( 1\right$ 

contaminating surface water or the ground water system.

Hazchem code 1Y

General fire hazards

Contact with combustible material may cause fire.

**Specific methods**Use standard firefighting procedures and consider the hazards of other involved materials.

#### Section 6 - Accidental release measures

# Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing

appropriate protective clothing.

For emergency responders

Keep unnecessary personnel away. Ensure adequate ventilation. Avoid inhalation of dust. Local

authorities should be advised if significant spillages cannot be contained. For personal

protection, see section 8 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

Methods and materials for containment and cleaning up

Minimise dust generation and accumulation. Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

# Section 7 - Handling and storage

Precautions for safe handling

Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not taste or swallow. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Do not store near combustible materials. Store away from incompatible materials (see Section 10 of the SDS).

## Section 8 - Exposure controls and personal protection

Control parameters

Follow standard monitoring procedures.

## Occupational exposure limits

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

 Components
 Type
 Value

 Permethrin (CAS
 TWA
 5 mg/m3

52645-53-1)

Talc (Mg3H2(SiO3)4) (CAS TWA 2.5 mg/m3

14807-96-6)

**US. ACGIH Threshold Limit Values (TLV)** 

Components Type Value Form

Permethrin (CAS TWA 5 mg/m3

52645-53-1)

Talc (Mg3H2(SiO3)4) (CAS TWA 2 mg/m3 Respirable fraction.

14807-96-6)

UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1

Components Type Value Form

Permethrin (CAS TWA 1 mg/m3

52645-53-1)

Talc (Mg3H2(SiO3)4) (CAS TWA 1 mg/m3 Respirable dust.

14807-96-6)

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in

the Work Area (DFG), as updated

ComponentsTypeValueFormTalc (Mg3H2(SiO3)4) (CASTWA4 mg/m3Inhalable dust.14807-96-6)

Biological limit values No biological exposure limits noted for the ingredient(s).

Control banding Not available.

Engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If

applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep

exposures below the recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

**Eye/face protection** Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Keep away from food and drink. Always observe good personal hygiene measures, such as

washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing

should not be allowed out of the workplace.

## Section 9 - Physical and chemical properties

Physical stateSolid.FormPowder.ColourOff-white.

Odour threshold Not available.

PH Not available.

Melting point/freezing point Not available.

Boiling point and boiling range Not available.

Flash point Not available.

Evaporation rate Not available.

Upper/lower explosive limits

Explosion limit - lower (%) Not available.

Explosion limit - upper (%) Not available.

Vapour pressure Not available.

Vapour density Not available.

Relative density Not available.

Solubility

Solubility (water)Partly soluble.Flammability (solid, gas)Not available.Partition coefficient:Not available.

n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Not available.

Not available.

Data relevant with regard to physical hazard classes

No relevant additional information available.

Other physical and chemical parameters

Explosive properties

Not explosive.

Oxidising properties Contains an oxidizing agent; may assist combustion

Section 10 - Stability and reactivity

**Reactivity** Reacts with acids liberating toxic gas (chlorine). **Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid conditions which create dust. Keep away from heat, spark, open flames and other sources

of ignition. Avoid electro-static discharge. Contact with incompatible materials.

**Incompatible materials** Strong acids and bases. Strong oxidising agents. Halogenated materials.

Hazardous decomposition

products

oxygen Ammonium chloride. Ammonia. Carbon oxides. Nitrogen oxides (NOx). Hydrogen cyanide

(hydrocyanic acid).

## Section 11 - Toxicological information

Information on possible routes of exposure

InhalationDust may irritate respiratory system. Prolonged inhalation may be harmful.Skin contactDust or powder may irritate the skin. May cause an allergic skin reaction.

Eye contact Dust may irritate the eyes.

Early onset symptoms related

to exposure

Ingestion

Dusts may irritate the respiratory tract, skin and eyes. May cause an allergic skin reaction.

Dermatitis. Rash.

Harmful if swallowed.

Delayed health effects from

exposure

Not available.

**Acute toxicity** Harmful if swallowed.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

**Respiratory sensitisation** Not a respiratory sensitiser.

**Skin sensitisation** May cause an allergic skin reaction.

Germ cell mutagenicity Not classified.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

**ACGIH Carcinogens** 

Permethrin (CAS 52645-53-1) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Permethrin (CAS 52645-53-1) 3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## **Section 12 - Ecological information**

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Components Species Test Results

Permethrin (CAS 52645-53-1)

**Aquatic** 

Acute

Crustacea EC50 Water flea (Daphnia magna) 0.0006 - 0.0025 mg/l, 48 hours

Fish LC50 Channel catfish (Ictalurus punctatus) 0.0011 mg/l, 96 hours

Persistence and degradability

Active Ingredient (a.i.): Not rapidly biodegradable.

**Bioaccumulative potential** 

Partition coefficient

n-octanol / water (log Kow)

Permethrin 6.15

Mobility in soil No data available for this product.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

# Section 13 - Disposal considerations

**Disposal methods**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not

allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

**Residual waste** Dispose of in accordance with all applicable regulations. Dispose of in accordance with local

regulations. Empty containers or liners may retain some product residues. This material and its

container must be disposed of in a safe manner.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container

is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# **Section 14 - Transport information**

**ADG** 

UN number 3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Potassium chlorate)

Transport hazard class(es)

Class 9
Subsidiary hazard Packing group III
Environmental hazards No
Hazchem code 1Y

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

RID

UN number 3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Potassium chlorate)

Transport hazard class(es)

Class 9
Subsidiary hazard Label(s) 9
Packing group III
Environmental hazards Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IATA** 

UN number 3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Potassium Chlorate)

Transport hazard class(es)

Class 9
Subsidiary hazard Packing group III
Environmental hazards No
ERG Code 5L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN number 3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Potassium Chlorate),

MARINE POLLUTANT

Not applicable.

Allowed with restrictions.

Transport hazard class(es)

Class 9
Subsidiary hazard Packing group III
Environmental hazards

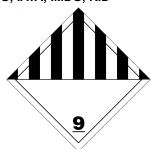
Marine pollutant Yes EmS F-A, S-Q

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

ADG; IATA; IMDG; RID



#### Marine pollutant



**General information** 

IMDG Regulated Marine Pollutant.

According to the ADG code, this product can be shipped as limited quantity if the inner packaging is less than 5 kg, and the total gross weight is less than 30 kg.

# Section 15 - Regulatory information

# Safety, health and environmental regulations

National regulations

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals.

Poison Schedule: S5 Signal Word CAUTION

#### Australia Medicines & Poisons Appendix E

Potassium chlorate (CAS 3811-04-9)

## Australia Medicines & Poisons Schedule 2

Permethrin (CAS 52645-53-1)

Potassium chlorate (CAS 3811-04-9)

#### Australia Medicines & Poisons Schedule 4

Permethrin (CAS 52645-53-1)

## Australia Medicines & Poisons Schedule 5

Permethrin (CAS 52645-53-1)

Potassium chlorate (CAS 3811-04-9)

## Australia Medicines & Poisons Schedule 6

Permethrin (CAS 52645-53-1)

# Australia National Pollutant Inventory (NPI): Threshold quantity

Potassium chlorate (CAS 3811-04-9) 10 tonnes/yr Threshold Category: 1

**High Volume Industrial Chemicals (HVIC)** 

Talc (Mg3H2(SiO3)4) (CAS 14807-96-6) 1000 - 9999 TONNES See the regulation for additional

information.

## Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10, as amended)

Not listed.

## National Pollutant Inventory (NPI) substance reporting list

Talc (Mg3H2(SiO3)4) (CAS 14807-96-6) 2000 tonnes/yr Threshold Category: 2B

400 tonnes/yr Threshold Category: 2A

## **Prohibited Carcinogenic Substances**

Not regulated.

# Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

#### **Restricted Carcinogenic Substances**

Not regulated.

### Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

## International regulations

# **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

**Kyoto Protocol** 

Not applicable.

**Montreal Protocol** 

Not applicable.

**Basel Convention** 

Not applicable.

#### **International Inventories**

Country(s) or region Inventory name

On inventory (yes/no)\*

Australia Australian Inventory of Industrial Chemicals (AICIS) No

# Section 16 - Any other relevant information

Issue date13-July-2023Revision date07-August-2025

Key abbreviations or acronyms

AICIS: Australian Inventory of Industrial Chemicals.

used

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## **Revision information**

Section 2 - Hazard(s) identification: Classification of the substance or mixture

Section 2 - Hazard(s) identification: GHS Hazard Statements

Section 2 - Hazard(s) identification: Prevention Section 2 - Hazard(s) identification: Storage

Section 2 - Hazard(s) identification: Supplemental information Section 5 - Firefighting measures: Suitable extinguishing equipment

Section 5 - Firefighting measures: Specific hazards arising from the chemical

Section 9 - Physical and chemical properties: Oxidising properties

Section 10 - Stability and reactivity: Conditions to avoid

Section 10 - Stability and reactivity: Hazardous decomposition products

Transport Information: Material Transportation Information Section 16 - Any other relevant information: Disclaimer

GHS: Classification

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).