

# SAFETY DATA SHEET

## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **AgMerch Organosilicone 1020 Penetrant**

**Other Names:** Polysiloxane. Polyether Modified Polysiloxane  
**Use:** A non-ionic wetter/spreader/penetrant for use with agricultural pesticides.  
**Company:** AgMerch Pty Ltd  
**Address:** 217 Wyndham Street, Shepparton, Vic 3630  
**ACN/ABN:** 26 645 371 017  
**Email:** info@agmerch.com.au  
**Emergency Contact:** 0498 530 214

## SECTION 2 HAZARDS IDENTIFICATION

**Classified as Hazardous according to criteria of Safe Work Australia.  
Not classified as a Dangerous Good according to the ADG Code.\***

\* Not subjected to the ADG code when transported in Australia by Road or Rail in packages 500 kg (L) or less; or in IBC's (refer to SP AU01). However, if transported by Air or Sea, this provision does not apply. Then the product is classed as a Dangerous Good (Class 9 Environmentally Hazardous) by IATA and IMDG respectively. See Section 14 of this SDS for details.

### Globally Harmonised System (GHS) Classification:

Acute Toxicity – Dermal. Hazard Category 4.  
Skin Corrosion/irritation. Hazard Category 2.  
Eye damage/irritation. Hazard Category 1.  
Acute Toxicity – Inhalation. Hazard Category 4.  
Hazardous to the Aquatic Environment – Long term (Chronic) Hazard: Hazard Category 2.

**Signal Word:** DANGER.

### Hazard Statements:

H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H411 Toxic to aquatic life with long lasting effects.

### Precautionary Statements:

#### Prevention:

P261 Avoid breathing mist, vapours or spray.  
P264 Wash hands, arms and face thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lens, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTRE or doctor.  
P312 Call a POISON CENTRE or doctor if you feel unwell.  
P321 Specific treatment (see Safety Directions on the product label).  
P332 + PP313 If skin irritation occurs: Get medical advice/attention.

**SECTION 2 HAZARDS IDENTIFICATION (Continued)***Response: (Cont)*

P362 + P364

Take off contaminated clothing and wash it before reuse.

P391

Collect spillage.

*Disposal:*

P501 Dispose of contents/container in accordance with national regulations.

**Pictogram:****SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients:****CHEMICAL**

Polyether modified Polysiloxane

**CAS NUMBER**

134180-76-0

**PROPORTION**

1020 g/L

**SECTION 4 FIRST AID MEASURES****FIRST AID**

**Ingestion:** If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131 126. Wash mouth with water and give water to drink.

**Eye contact:** If in eyes, immediately flush with copious amounts of clean water until chemical is removed. If irritation occurs and persists, obtain medical attention.

**Skin contact:** Rinse skin with water. If skin irritation persists, seek medical advice. Remove contaminated clothing and launder before re-use.

**Inhalation:** Remove to fresh air and observe until recovered. If effects persist, seek medical advice. Not expected to be a source of over-exposure.

**Advice to Doctor:** Treat symptomatically.

**SECTION 5 FIRE FIGHTING MEASURES**

**Specific Hazard:** Combustible liquid (C1). Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire.

**Extinguishing media:** Extinguish fire using foam blanket, carbon dioxide or dry agent. If not available, use waterfog or fine water spray but ensure all runoff is contained. If containers are ruptured contain all runoff. Keep containers cool with water spray.

**Hazards from combustion products:** Product is likely to decompose after heating to dryness and continued strong heating and will emit toxic fumes. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or smoke.

**Precautions for fire-fighters and special protective equipment:** Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke or vapours generated.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Emergency procedures:** In the event of a major spill, prevent spillage from entering drains or water courses. Wear goggles or a facial splash shield; chemical resistant gloves, such as nitrile rubber > 14 mils or neoprene rubber > 14 mils; coveralls or long sleeved shirt and long pants; shoes plus socks and mist filtering respirator.

**SECTION 6 ACCIDENTAL RELEASE MEASURES (Continued)**

In the case of spillage, stop leak if safe to do so, and contain spill. Prevent spillage entering drains or watercourses. Contain and absorb spilled material with absorbent material such as sand, clay, cat litter or material such as vermiculite. Collect recoverable product for use as labelled on the product. Vacuum, shovel or pump contaminated spilled material into an approved container and dispose of waste as per the requirements of Local or State Waste Management Authorities. Keep out animals and unprotected persons. Launder protective clothing before storage or re-use.

After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Launder protective clothing before storage or re-use.

**Material and methods for containment and cleanup procedures:** To clean spill area, tools and equipment, wash with a solution of soap, water and acetic acid/vinegar. Follow this with a neutralisation step of washing the area with a bleach or caustic soda ash solution. Finally, wash with a strong soap and water solution. Absorb, as above, any excess liquid and add both solutions to the drums of waste already collected.

**SECTION 7 HANDLING AND STORAGE**

**Precautions for Safe Handling:** Do not get on skin or on clothing. Causes eye irritation. Do not get in eyes. Harmful if swallowed. Avoid breathing vapour or mist. Avoid using product in a manner as to directly, or through drift, expose workers or other persons. Always follow the precautionary statements on the label of the pesticide(s) that are to be used with AgMerch Organosilicone 1020 Penetrant. Applicators and other handlers must wear goggles or a facial splash shield; chemical resistant gloves, such as nitrile rubber > 14 mils or neoprene rubber > 14 mils; coveralls or long sleeved shirt and long pants; shoes plus socks and mists filtering respirator. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash goggles or face shield, gloves and any contaminated clothing.

**Conditions for Safe Storage:** Store in the closed, original container, in a dry, cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Not classified as a Dangerous Good. Do not re-use container for any purpose.

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION****Exposure Guidelines:**

No exposure limits have been assigned by Safe Work Australia to the ingredients in this product.

**Biological Limit Values:**

No biological limit allocated.

**Engineering controls:**

Keep containers closed when not in use. No special engineering controls are required, however make sure that the work environment remains clean and that vapours are minimised.

**Personal Protective Equipment (PPE):**

Avoid using product in a manner as to directly, or through drift, expose workers or other persons. Always follow the precautionary statements on the label of the pesticide(s) that are to be used with AgMerch Organosilicone 1020 Penetrant. Applicators and other handlers must wear goggles or a facial splash shield; chemical resistant gloves, such as nitrile rubber > 14 mils or neoprene rubber > 14mils; coveralls or long sleeved shirt and long pants; shoes plus socks and mists filtering respirator. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash goggles or face shield, gloves and any contaminated clothing.

**Personal Hygiene:** Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Light yellow watery liquid.  
**Odour:** Characteristic odour.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling point:</b>	No data available.
<b>Freezing point:</b>	No data available – solid at room temperature.
<b>Specific Gravity:</b>	Approximately 1.0 g/mL.
<b>Solubility in Water:</b>	Soluble.
<b>pH:</b>	6 – 8.5.
<b>Flammability:</b>	Combustible liquid.
<b>Flashpoint (°C):</b>	> 100°C.
<b>Poisons Schedule:</b>	Not a Scheduled poison.

**SECTION 10 STABILITY AND REACTIVITY**

**Chemical Stability:** Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.

**Conditions to avoid:** Do not store for prolonged periods in direct sunlight.

**Incompatible materials:** Avoid strong acids, bases and strong oxidizing agents.

**Hazardous decomposition products:** If product is burned it will produce toxic and noxious fumes.

**Hazardous reactions:** Polymerisation will not occur.

**SECTION 11 TOXICOLOGICAL INFORMATION**

No specific data is available for this product as no toxicity tests have been conducted on this product. Information presented is our best judgement based on similar products and/or individual components. As with all products for which limited data is available, caution must be exercised through the use of protective equipment and handling procedures to minimise exposure.

**Potential Health Effects:**

**ACUTE EFFECTS**

**Swallowed:** Low acute toxicity. Acute Oral LD<sub>50</sub> > 3,000 mg/kg (rat).

**Eye:** This product is irritating to the eyes. Avoid eye contact.

**Skin:** This product may be a slight irritant to the skin. Acute dermal LD<sub>50</sub> > 2,000 mg/kg (rat).

**Inhaled:** Inhalation of mists or sprays may produce respiratory irritation. The estimated LC<sub>50</sub> is 1.8 mg/L/4 hours.

**Long Term Exposure:**

**Chronic toxicity:** No evidence of mutagenicity or teratogenicity in animal tests.

**SECTION 12 ECOLOGICAL INFORMATION**

**Environmental Toxicology:** Moderate toxicity to fish - rainbow trout LC<sub>50</sub> 2.1 mg/L, water fleas (*Daphnia magna*) LC<sub>50</sub> = 1.1 mg/L and algae (*Scenedesmus subspicatus*) EC<sub>50</sub> = 28.2 mg/L.

**Environmental Fate:** No data available.

**SECTION 13 DISPOSAL CONSIDERATIONS**

**Spills and Disposal:** Persons involved in cleanup require adequate skin protection - see Section 8. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities. In rural areas contact ChemClear <http://www.chemclear.com.au> for help with collection of unwanted rural chemicals.

**Disposal of empty containers:**

Disposal of empty containers: Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

**SECTION 13 DISPOSAL CONSIDERATIONS** (*Continued*)

If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product

Do not cut or weld metal containers. Vapours that form inside may create an explosion hazard.

For help with disposal of empty containers contact DrumMuster <http://www.drummuster.com.au> for details for your area.

**SECTION 14 TRANSPORT INFORMATION**

**Road & Rail Transport:** This product is exempt from classification as a Dangerous Good in packs less than 500 kg (L) or less; or in IBC's under the Australian Code for the Transport of Dangerous Goods by Road and Rail. For bulk shipments this product is a class 9, UN 3082. (See special provision AU01).

**Marine and Air Transport:** AgMerch Organosilicone 1020 Penetrant is classified as a Marine Pollutant according to International Maritime Dangerous Goods (IMDG) Code and the International Air transport Association (IATA). If transporting by sea or air the following Dangerous Goods Classification applies:- UN 3082, Class 9 (Miscellaneous Dangerous Goods), Packing Group III, Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Polyether modified Polysiloxane). Hazchem code 2Z. Hazard Identification Number (HIN) 90. Australian Standards Initial Emergency Response Guide No. 47.

**SECTION 15 REGULATORY INFORMATION**

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is not a scheduled poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 91880.

This product is classified as a Hazardous Substance under the criteria of Safe Work Australia. This product is classified as hazardous under GHS.

This product is not classified as a Dangerous Good according to the ADG Code for packages 500 kg (L) or less; or in IBC's (refer to SP AU01) (7<sup>th</sup> Ed).

This product is classified as a Dangerous Good according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA).

Requirements concerning special training:

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

**SECTION 16 OTHER INFORMATION**

Issue Date: 15 July 2023. Valid for 5 years till 15 July 2028. (First issue).

Key to abbreviations and acronyms used in this SDS:

ADG Code: Australian Dangerous Goods Code (for the transport of dangerous goods by Road and Rail).

Carcinogen: An agent which is responsible for the formation of a cancer.

Genotoxic: Capable of causing damage to genetic material, such as DNA.

HCIS: Hazardous Chemical Information System.

Lacrimation: The production, secretion, and shedding of tears.

Lavage: A general term referring to cleaning or rinsing.

Mutagen: An agent capable of producing a mutation.

Pneumonitis: A general term that refers to inflammation of lung tissue.

PPE: Personal protective equipment.

**SECTION 16 OTHER INFORMATION** *(Continued)*

Teratogen: An agent capable of causing abnormalities in a developing foetus.

TWA: The Time Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

Safe Work Australia: Australian government statutory body established in 2008 to develop national policy relating to Worker Health & Safety and workers' compensation.

**References**

1. "Hazardous Chemicals Information System". Safe Work Australia HCIS website. (2023).
2. "Classifying Hazardous Substances" Safe Work Australia. August 2018.
3. Globally Harmonized System of Classification and Labelling of Chemicals (GHS). United Nations, 2017 (7<sup>th</sup> Ed).

*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 should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.*

*If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.*

End SDS