

SAFETY DATA SHEET

SECTION 1

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Apparent Alternative Herbicide**

Other Names: Pelargonic acid, Nonanoic Acid.
Use: An agricultural herbicide.
Company: Apparent Pty Ltd
Address: 15/16 Princes Street, Newport NSW 2106.
ACN/ABN: 122 081 574
Telephone Number: 03 9822 1321
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Emergency Contact: 0411 227 338

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.**

Globally Harmonised System (GHS) classification of the substance/mixture:

Flammable Liquids- Hazard Category 4.
Skin corrosion/irritation – Hazard Category 2.
Sensitization – skin: Hazard Category 1, 1A, 1B.
Eye damage/irritation – Hazard Category 2A.
Hazardous to the aquatic environment – Long term (chronic) hazard – Hazard Category 3.

Signal Word: WARNING.

Hazard Statements:

H227 Combustible liquid.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long-lasting effects.

Precautionary Statements:

Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces: - No smoking.
P261 Avoid breathing mist, vapours or spray.
P264 Wash hands, arms and face thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.

Response:

P302 + P352 Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment see Safety Directions on the product label.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P330 Rinse mouth.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash before reuse.
P370+ P378 In case of fire: Use foam, CO₂ or dry chemical for extinction.

SECTION 2 HAZARDS IDENTIFICATION (Continued)**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

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

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

CHEMICAL	CAS NUMBER	PROPORTION
Nonanoic Acid	112-05-0	525 g/L
Nonylphenol, ethoxylated	Confidential	1 – 10%
R)-4-isopropenyl-1-methylcyclohexene	Confidential	< 5%
Other ingredients determined not to be hazardous		Balance

SECTION 4 FIRST AID MEASURES**FIRST AID**

Ingestion: If swallowed, DO NOT induce vomiting. Seek medical advice and show this label or container. Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

Eye contact: Immediately hold eyes open and wash with copious quantities of clean water until chemical is removed. Eyelids to be held open. Remove contact lenses after the initial flushing and continue flushing to ensure chemical is removed. If effects occur and persist, consult a physician, preferably an ophthalmologist.

Skin contact: Remove contaminated clothing, including footwear. Wash skin with soap and water. Contaminated clothing should be laundered before reuse.

Inhalation: Remove from exposure and observe until recovered. If effects persist, seek medical advice.

Advice to Doctor: Nonanoic acid has low acute toxicity. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care. Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazard: Product is a combustible liquid. Flash point > 62°C.

Extinguishing media: Foam, CO₂ or dry chemical. Soft stream water fog if no alternatives. Contain all runoff.

Hazards from combustion products: On burning will emit toxic fumes.

Precautions for fire-fighters and special protective equipment: Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases 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. As a minimum, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves and face shield or goggles.

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. If a significant quantity of material enters drains, advise emergency services. Thoroughly launder protective clothing before storage or re-use.

This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Prevent from entering drains, waterways or sewers. Use earthen bunds or absorbent bunding to prevent spreading of spillage.

Material and methods for containment and cleanup procedures: To clean spill area, tools and equipment, wash with a solution of soap and water. 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 again. 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: Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with the eyes and skin. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves and face shield or goggles. When using the prepared spray wear gauntlet-length chemical resistant gloves and face shield or goggles. Wash hands after use. After each day's use wash gloves, face shield or goggles, and contaminated clothing.

Conditions for Safe Storage: Store in tightly closed original container in a cool, dry well-ventilated area out of direct sunlight when not in use. This product is a Schedule 5 Poison (S5) and must be stored, transported and sold in accordance with the relevant Health Department regulations. Not classified as a Dangerous Good. Store away from children, animals, food, feedstuffs, seed and fertilisers.

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

Exposure guidelines have not been established for this product by Safe Work Australia.

Biological Limit Values:

No biological limit allocated.

Engineering controls:

Use in ventilated areas. Keep containers closed when not in use.

Personal Protective Equipment (PPE):

When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves and face shield or goggles. When using the prepared spray wear gauntlet-length chemical resistant gloves and face shield or goggles.

Personal Hygiene: Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with the eyes and skin. Clean water should be available for washing in case of eye or skin contamination. Wash hands after use. After each day's use wash gloves, face shield or goggles, and contaminated clothing. Shower at the end of the workday.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow clear coloured liquid.
Odour:	Characteristic odour.
Boiling point:	No data available.
Freezing point:	No data available.
Specific Gravity:	Approximately 0.9 g/L.
Solubility in Water:	Emulsifies in water.

SECTION 9 **PHYSICAL AND CHEMICAL PROPERTIES (Continued)**

pH (1%):	4 - 5.
Vapour pressure:	No data available.
Flammability:	Combustible liquid.
Flashpoint (°C):	> 62°C.
Poisons Schedule:	Product is a Schedule 5 (S5) poison.
Formulation type:	Emulsifiable Concentrate.

SECTION 10 **STABILITY AND REACTIVITY**

Chemical Stability: Product is considered stable in ambient conditions for a period of at least 2 years after manufacture. This product is unlikely to spontaneously decompose.

Conditions to avoid: Do not store for prolonged periods in direct sunlight. Avoid strong oxidising agents. Avoid excessive sources of heat and naked flames.

Incompatible materials: Keep away from strong oxidizing agents.

Hazardous decomposition products: When the product is heated to high temperatures, thermal decomposition may generate toxic and noxious fumes, including carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride and hydrogen fluoride.

Hazardous reactions: Not known to polymerise.

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: This product has low oral toxicity. The LD₅₀ (rat) > 2000 mg/kg.

Eye: May cause moderate to severe eye irritation, but is not corrosive.

Skin: This product has a low dermal toxicity. The dermal LD₅₀ in the rabbit is > 2000 mg/kg. Skin contact may result in slight to moderate irritation.

Inhaled: No adverse effects are anticipated from single exposure to vapour. Low inhalation toxicity.

Long Term Exposure:

In studies with laboratory animals, nonanoic acid did not cause reproductive toxicity, teratogenicity or carcinogenicity. An overall absence of genotoxicity has been demonstrated in tests of mutagenicity, DNA damage and chromosomal aberrations.

SECTION 12 **ECOLOGICAL INFORMATION**

Environmental Information: No data is available on Apparent Alternative Herbicide.

Environmental Toxicology: The acute LC₅₀ value of Nonanoic acid in fish (golden ide) is > 7.2 mg/L, the highest concentration tested, and no effect could be seen at this concentration. The NOEC of Nonanoic acid is 19.2 mg/L and indicates marginal toxicity to fish. The acute EC₅₀ in *Daphnia magna* of 23.63 mg/L, the NOEC of chronic toxicity was determined to be 9.93 mg a.s./L. Growth inhibition in green algae (*Scenedesmus subspicatus*) shows an EC₅₀ of nominal 103.4 mg/L. Algae are very sensitive to Nonanoic acid, as the NOEC of the growth rate is 0.568 mg/L.

Environmental Properties: Nonanoic acid has low mobility in soils and binds strongly to sediments. Pelargonic acid does not hydrolyse in water but will volatilize from water over time if microbial degradation or adsorption to sediments does not occur.

SECTION 12 ECOLOGICAL INFORMATION (Continued)

Pelargonic acid is short-lived in the environment and is rapidly dissipated and degraded via several pathways, with an estimated aerobic half-life of one day. The most important processes for dissipation of pelargonic acid are microbial biodegradation, volatilization, and adsorption to soils and sediments.

SECTION 13 DISPOSAL CONSIDERATIONS

Spills and Disposal: Persons involved in cleanup require complete skin protection - see Section 8. In case of spillage, contain and absorb spilled material with absorbent material such as clay, sand or cat litter and dispose of waste as indicated below or in accordance to the Australian Standard 2507- Storage and Handling of Pesticides. Keep out animals and unprotected persons. 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.

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

SECTION 14 TRANSPORT INFORMATION

Road & Rail Transport: This product is not classification as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Marine and Air Transport: Apparent Alternative Herbicide is not classified as a Dangerous Good according to International Maritime Dangerous Goods (IMDG) Code and the International Air transport Association (IATA).

SECTION 15 REGULATORY INFORMATION

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a Schedule 5 poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 87680.

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

This product is not classified as a Dangerous Good according to the ADG Code.

This product is not 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: 28 April 2020. Valid for 5 years till 28 April 2025. (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.

LD₅₀: Median Lethal Dose A statistically derived single dose of a substance that can be expected to cause death in 50% of dosed animals.

Mutagenic: Capable of inducing a genetic mutation in an organism.

SECTION 16**OTHER INFORMATION**

- OCS: Office of Chemical Safety.
PPE: Personal protective equipment.
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: Formally known as Australian Safety & Compensation Council (ASCC) which was formally known as the National Occupational Health & Safety Commission (NOHSC).

References

1. "Hazardous Chemicals Information System". Safe Work Australia HCIS website. (2020).
2. "Classifying Hazardous Substances" Safe Work Australia. August 2018.
3. Globally Harmonized System of Classification and Labelling of Chemicals (GHS). United Nations, 2009.

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