SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Apparent Barefoot Selective Herbicide**

Other Names:	DSMA + MCPA. Group 4 and 0 Herbicide.
Use:	For the control of Paspalum, Nutgrass, Mullumbimby Couch, Clovers and other weeds in domestic lawns.
Company:	AIRR Apparent Pty Ltd.
Address:	15/16 Princes Street, Newport NSW 2106
Telephone Number:	03 5820 8400
Email:	enquiries@apparentag.com.au
Emergency Contact:	0437 303 689

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:

Acute Toxicity – Inhalation: Hazard Category 4.
Acute Toxicity – Dermal: Hazard Category 4.
Acute Toxicity – Oral: Hazard Category 4.
Hazardous to the Aquatic Environment – Long-Term (Chronic) Hazard – Hazard Category 1.

Signal Word: WARNING.

Hazard statements:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H410	Very 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.
P270	Do not eat, drink or smoke when using this product.
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:

P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if feel unwell.
P302 + P352	Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	Specific treatment (see Safety Directions on the product label).
P330	Rinse mouth.
P362 + P364	Take off contaminated clothing and Wash before reuse.
P391	Collect Spillage.

SECTION 2 HAZARDS IDENTIFICATION (Continued)

Disposal:

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

Pictograms:

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

CHEMICAL	*CAS NUMBER*	*PROPORTION*
Disodium Methylarsonate	144-21-8	74 g/L
MCPA present as sodium salt	3653-48-3	24 g/L
Other ingredients determined not to be hazardous		Balance

SECTION 4 FIRST AID MEASURES

FIRST AID

Ingestion: If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 131 126. If swallowed do NOT induce vomiting. Wash mouth out with water.

Eye contact: Immediately hold eyes open and flood with clean water until chemical is removed. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained. If irritation persists, seek medical attention.

Skin contact: Remove contaminated clothing and launder before re-use. Wash skin with soap and water. If skin is irritated, seek medical advice.

Inhalation: Remove to fresh air and observe until recovered. If irritation or symptoms persists more than about 30 minutes, seek medical advice.

Advice to Doctor: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazard: Generally considered a low risk due to the water content. Not flammable. No risk of explosion if involved in a fire.

Extinguishing media: Extinguish fire using media suited to burning material. If containers are ruptured contain all runoff.

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. As a minimum, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves and face shield or goggles. In the case of spillage, stop leak if safe to do so, and contain spill. 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.

SECTION 6 ACCIDENTAL RELEASE MEASURES (Continued)

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

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling: Poisonous if absorbed by skin contact or swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale vapour. Repeated exposure may cause allergic disorder. When opening the container and preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves and face shield or goggles. If product in eyes, wash it out immediately with water. If product on skin, immediately wash area with soap and water. After each day's use wash gloves, face shield or goggles and contaminated clothing.

Conditions for Safe Storage: Store in the closed, original container in a well ventilated area away from children, animals, food, feedstuffs, seed and fertilisers. Do not store for prolonged periods in direct sunlight. Not classified as a Dangerous Good. This product is a Schedule 6 Poison (S6) and must be stored, transported and sold in accordance with the relevant Health Department regulations.

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. No special engineering controls are required.

Personal Protective Equipment (PPE):
General: When opening the container and preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves and face shield or goggles. If product in eyes, wash it out immediately with water. If product on skin, immediately wash area with soap and water. After each day's use wash gloves, face shield or goggles and contaminated clothing.

Personal Hygiene: Poisonous if absorbed by skin contact or swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale vapour. Repeated exposure may cause allergic disorder. 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:	Slightly cloudy brown liquid.
Odour:	No discernible odour.
Boiling point:	No data available.
Freezing point:	No data available.
Solubility in Water:	Soluble in water.
pH:	No data available.
Flammability:	Not flammable.
Flash point:	Not flammable.
Poisons Schedule:	This product is a Schedule 6 (S6) poison.
Specific Gravity:	Approximately 1.2.
Formulation type:	Suspension Concentrate (SC).

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: Keep away from strong acids and oxidizing agents.

Incompatible materials: Strong acids, strong bases and strong oxidising agents.

Hazardous decomposition products: If heated until evaporation of water, the residual material can emit toxic and noxious fumes. Will not polymerise.

Hazardous reactions: Avoid contact of the concentrate with strong alkalis and acids. Polymerisation is unlikely.

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: Harmful if swallowed. This product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Eye: This product will cause irritation to the eyes. Possible eye damage if not washed off immediately.

Skin: This product will irritate the skin and may be sensitising to sensitive individuals.

Inhaled: Inhalation of mists or sprays may produce respiratory irritation.

Mutagenic effects: MCPA is reportedly weakly mutagenic to bone marrow and ovarian cells of hamsters, but negative results were reported for other mutagenic tests. It produced no detectable increase in chromosomal aberrations in house flies. It appears that the compound poses little or no mutagenic risk.

Carcinogenic effects: All available evidence on MCPA indicates that the compound does not cause cancer. Forestry and agricultural workers occupationally exposed to MCPA in Sweden did not show increased cancer incidence.

Reproductive effects: It is unlikely that humans will experience effects under normal exposure conditions to MCPA.

Teratogenic effects: Teratogenic effects in humans are unlikely at expected exposure levels.

Organ toxicity: Target organs identified in animal studies include the liver, kidneys, spleen and thymus. Farm worker exposure has resulted in reversible anaemia, muscular weakness, digestive problems, and slight liver damage.

SECTION 12 ECOLOGICAL INFORMATION

Environmental Toxicology: No data is available on this product. MCPA has moderate toxicity to aquatic organisms. LC_{50} (96 hr) for rainbow trout is 50 - 560 mg/L; LC_{50} (96 hr) for bluegill sunfish is > 135 mg/L; LC_{50} (48 hr) for daphnia is > 190 mg/L. MCPA is practically nontoxic to freshwater invertebrates, and estuarine and marine organisms. Non-toxic to bees. Moderate toxicity to birds LD_{50} for bobwhite quail is 377 mg/kg for MCPA. DSMA has low toxicity to birds LD_{50} for bobwhite quail is 4695 mg/kg. Low toxicity to fish and aquatic organisms with an LC_{50} (96 hr) for rainbow trout is > 114 mg/L and LC_{50} (48 hr) for daphnia 153 mg/L. Moderate toxicity to bees LD_{50} > 20.7 µg/bee.

Environmental Fate: MCPA and its formulations are rapidly degraded by soil microorganisms and it has low persistence, with a reported field half-life of 14 days to 1 month, depending on soil moisture and soil organic matter. With less than 10% organic matter in soil, MCPA is degraded in 1 day and, with greater than 10% levels in soil, it takes 3 to 9 days to degrade. The half-life is 5 to 6 days in slightly acidic to

SECTION 12 ECOLOGICAL INFORMATION (Continued)

slightly alkaline soils. MCPA readily leaches in most soils, but its mobility decreases with increasing organic matter. DSMA has a low bio concentration risk.

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. 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: Dispose of empty container by wrapping in paper, placing in plastic bag and putting in garbage.

SECTION 14 TRANSPORT INFORMATION

Transport: This product is not classified as a Dangerous Good. This product is a Schedule 6 Poison (S6) and must be stored, transported and sold in accordance with the relevant Health Department regulations.

SECTION 15 REGULATORY INFORMATION

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a Schedule 6 poison.
This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA number 85555.
This product is classified as a Hazardous Substance under the criteria of Safe Work Australia. Xn Harmful; Xi Irritant.
This product is not classified as a Dangerous Good.
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: 4 November 2021. Valid for 5 years till 4 November 2026. (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.
HSIS:	Hazardous Substances 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.
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).

SECTION 16 OTHER INFORMATION

References

1. “Search Hazardous Substances”. HSIS - Safe Work Australia website. (2018).
2. “Approved Criteria for Classifying Hazardous Substances” 3rd Ed. NOHSC Australia. [NOHSC:1008 (2004)]. October 2004.
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.