



SAFETY DATA SHEET

SECTION 1

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Apparent Right Hook 800 Herbicide

Other Names: Prosulfocarb. Group 15 Herbicide. Thiocarbamate herbicide.
Use: A selective agricultural emulsifiable concentrate herbicide.
Company: AIRR Apparent Pty Ltd.
Address: 15/16 Princes Street, Newport NSW 2106
Phone 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.
Combustible Liquid (C1).**

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 Dangerous (Class 9 Environmentally Hazardous) by IATA and IMDG respectively. See Section 14 of this SDS for details.

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

- Flammable Liquids – Category 4.
- Acute Toxicity – Oral: Category 4.
- Sensitization – Skin: Category 1, 1A, 1B.
- Hazardous to the Aquatic Environment – Long-Term (Chronic) Hazard – Category 2.

Signal Word: WARNING.

Hazard Statements:

- H227 Combustible liquid.
- H302 Harmful if swallowed.
- H317 May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- 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.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- 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 you feel unwell.
- P302 + P352 IF ON SKIN: Wash with plenty of water.
- P321 Specific treatment see Safety Directions on this label.

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

P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use carbon dioxide, foam or dry agent to extinguish.
P391	Collect spillage.

Storage and Disposal:

P403 Store in a well-ventilated place.

Disposal:

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

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

CHEMICAL	CAS NUMBER	PROPORTION
Prosulfocarb	52888-80-9	800 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 and give water to drink.
- Eye contact:** Immediately hold eyes open and flood with clean water. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained. If irritation persists, seek medical advice.
- Skin contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water. If skin is irritated, seek medical advice.
- Inhalation:** Remove to fresh air and observe until recovered. If irritation or symptoms persist more than 30 minutes, seek medical advice.
- Advice to Doctor:** Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazard: Combustible liquid (C1). Flash point > 62°C

Extinguishing media: Extinguish fire using carbon dioxide, foam (alcohol-resistant) or dry agent. If not available, use waterfog or fine water spray but ensure all runoff is contained. DO NOT use a solid water stream as it may scatter and spread the fire.

Hazards from combustion products: Combustible liquid and when burnt will produce toxic and noxious fumes. Will not polymerise. Intact containers exposed to excessive heat should be cooled with water to reduce drum pressure.

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 (or equivalent clothing), elbow-length chemical resistant gloves and face shield or goggles. 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.

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: Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes and skin. When opening the container, preparing the product for use and using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves and face shield or goggles. In addition, when opening the container and mixing and loading, wear a disposable mist face mask covering mouth and nose. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves and 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. This product is classified as a C1 Combustible Liquid for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to state regulations for storage and transport requirements. Do not store or use near naked flame, or heat sources. Do not cut or weld container. 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:**

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:

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, preparing the product for use and using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves and face shield or goggles. In addition, when opening the container and mixing and loading, wear a disposable mist face mask covering mouth and nose. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves and face shield or goggles and contaminated clothing.

Personal Hygiene: Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes and skin. 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:	Liquid.
Odour:	Characteristic.
Boiling point:	No data available.
Freezing point:	No data available.
Solubility in Water:	Emulsifies in water.
pH:	No data available.
Flammability:	Combustible liquid.
Flash Point:	> 61°C.
Poisons Schedule:	This product is a Schedule 6 (S6) 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.

Conditions to avoid: Keep away from strong oxidizing agents. Keep away from sources of heat, flame or sparks.

Incompatible materials: Strong acids, bases or oxidizing agents.

Hazardous decomposition products: When burned can emit toxic and noxious fumes.

Hazardous reactions: Avoid contact of the concentrate with strong oxidizing materials. 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: Low acute toxicity. Acute Oral LD₅₀ = 1820 mg/kg (rats) - Prosulfocarb.

Eye: This product may be irritating to the eyes.

Skin: This product may be irritating to the skin. Sensitising to the skin. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Acute dermal LD₅₀ > 2,000 mg/kg (Prosulfocarb).

Inhaled: Inhalation of mists or sprays may produce respiratory irritation. Acute inhalation LC₅₀ > 4.72 mg/L/4 hours (Prosulfocarb).

Acute toxicity:

In short-term toxicity studies, liver and kidney were found to be the target organs in rats and dogs. In addition, haemolytic anaemia was observed in dogs, with associated histopathological findings in the bone marrow and spleen. Available data do not support evidence of genotoxic or carcinogenic effects. In long-term toxicity studies, mainly reduced food consumption and decreased body weights were noted. There have been no known poisoning incidents and therefore no epidemiological studies have been considered necessary.

Chronic toxicity:

Genotoxicity: prosulfocarb does not pose an *in vivo* mutagenic or genotoxic concern to humans.

Prosulfocarb is not considered oncogenic in the rat or the mouse.

In an acute neurotoxicity study with rats, prosulfocarb did not inhibit cholinesterase (plasma, brain and erythrocyte) or cause any neurotoxicity. No toxic effect on the reproductive parameters was demonstrated.

No adverse reactions occurring with prosulfocarb in research, development or formulation have been reported.

SECTION 12**ECOLOGICAL INFORMATION**

Environmental Toxicology: No data is available on this product. The active ingredient, Prosulfocarb, has low toxicity to birds with an LD₅₀ > 1505 mg/kg (Mallard duck) and > 2250 mg/kg (Bobwhite quail). Moderate toxicity to fish with 96 hour LC₅₀ 4.3 mg/L (Rainbow trout) and 2.2 mg/L (Bluegill sunfish). Toxic to aquatic invertebrates 48 hour LC₅₀ 0.84 mg/L (*Daphnia magna*). Very toxic to algae 72 hour EC₅₀ 0.049 mg/L (*Pseudokirchneriella subcapitata*). Earthworms 14 day LC₅₀ 71.8 mg/kg (*Eisenia feotida*). Low toxicity to bees with LD₅₀ µg/bee > 80.

Environmental Fate: In soil under aerobic conditions prosulfocarb exhibits low to moderate persistence forming the minor soil metabolite prosulfocarb sulfoxide (observed in studies at a maximum of 7.2% of prosulfocarb on a mass basis) which exhibits low persistence. Mineralisation to carbon dioxide accounted for 38 % of applied radioactivity after 96 days. Prosulfocarb exhibits low to slight mobility in soil. In natural sediment water systems prosulfocarb dissipated quite rapidly from water by partitioning to sediment where it subsequently degraded slowly exhibiting high persistence. Bioconcentration factor = 700.

SECTION 13**DISPOSAL CONSIDERATIONS**

Spills and Disposal: Persons involved in clean-up require adequate skin protection - see Section 8. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

Disposal of empty containers: Store in the closed, original container in a cool well-ventilated area, away from children, animals, food, feedstuffs, seeds. Do not store for prolonged periods in direct sunlight. Store apart from fertilisers, insecticides and fungicides. Reseal immediately after use. 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. 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 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: Apparent Right Hook 800 Herbicide 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 Prosulfocarb). Hazchem code ●3Z. 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 a Schedule 6 poison.

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA number 85727.

This product is classified as a Hazardous Substance under the criteria of Safe Work Australia. Xn: harmful; Xi: Irritant.

SECTION 15 REGULATORY INFORMATION (Continued)

This product is not classified as a Dangerous Good according to the ADG Code for packs less than 3000 litres (SP AU01) (7th 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: 24 November 2021. Valid for 5 years till 24 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.
NOHSC	National Occupational Health and Safety Commission.
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).

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