



SAFETY DATA SHEET

SECTION 1

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Apparent Rhodamine Marker 150

Other Names: Rhodamine B.
Use: A liquid marking dye and foam marker colouring agent.
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.**

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

Acute toxicity – Oral - Hazard Category 4.
Eye Damage/Irritation – Hazard Category 1.
Flammable liquids – Hazard Category 4.

Signal Word: DANGER.

Hazard statements:

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H227 Combustible liquid.

Precautionary Statements:

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264 Wash hands, arms and face thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
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.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P330 Rinse mouth.
P370 + P378 In case of fire use foam blanket, carbon dioxide or dry agent to extinguish.

Storage

P403 Store in a well ventilated place.

Disposal

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

SECTION 2 HAZARDS IDENTIFICATION (Continued)

Pictograms:

**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients:

CHEMICAL	CAS NUMBER	PROPORTION
Rhodamine	81-88-9	150 g/L
Diethylene glycol	111-46-6	60-90%
Other ingredients determined not to be hazardous		Balance

SECTION 4 FIRST AID MEASURES**FIRST AID**

Ingestion: If swallowed do NOT induce vomiting. If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 131 126. Rinse mouth and give plenty of water to drink.

Eye contact: Immediately hold eyes open and flood gently 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 advice.

Skin contact: Remove contaminated clothing. Wash skin with soap and water thoroughly to remove chemical. If skin is irritated, seek medical advice. Skin may be stained.

Inhalation: Remove to fresh air and observe until recovered. If effects persist, seek medical advice.

Advice to Doctor: No specific antidote. Treat symptomatically. Gastric lavage with medicinal charcoal in water is recommended.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazard: Combustible Liquid (C1). Flashpoint > 96°C.

Extinguishing media: Combustible liquid (C1). 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. Contain all runoff.

Hazards from combustion products: Product will decompose when burnt and will emit toxic and noxious fumes. Eruption of containers is likely if confined at high temperatures. 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: Wear cotton overalls, goggles and PVC gloves. 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 clean-up procedures: To clean spill area, tools and equipment, wash with a solution of soap, water. A stain may persist.

SECTION 7**HANDLING AND STORAGE**

Precautions for Safe Handling: No smoking, eating or drinking should be allowed where material is used or stored. Do not swallow. Avoid contact with eyes and skin. Do not inhale mist. Wash hands after use. Rhodamine Marker 150 is coloured and will strongly stain skin and clothing. If skin has been exposed to the product, thorough washing with soap and water will remove any excess product. The colour on the skin is not deep and will naturally disappear over a few days.

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.

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

Exposure guidelines have been established for an ingredient in this product by Safe Work Australia.

Atmospheric Contaminant	Exposure Standard (TWA)	STEL (mg/m ³)
Diethylene glycol (2,2'-Oxybis[ethanol])	100 mg/m ³ (23 ppm)	-

TWA = Time-weight Average STEL = Short term Exposure Limit

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):

General: Although no specific personal protective equipment is required it is good occupational practice to wear suitable personal protective equipment such as overalls and chemical resistant gloves. Avoid contact with eyes and skin. Wash hands after use.

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:	Deep red coloured liquid.
Odour:	No odour.
Boiling point:	No data available.
Freezing point:	No data available.
Specific Gravity:	Approximately 0.95.
Solubility in Water:	Soluble in water.
pH:	3.7 – 4 (1% solution).
Flammability:	Combustible liquid (C1).
Flashpoint (°C):	> 96°C.
Poisons Schedule:	This product is not a scheduled poison.
Formulation Type:	Soluble 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: Do not store for prolonged periods in direct sunlight.

Incompatible materials: Avoid contact with aluminium, alumin alloys, copper rich alloys and neoprene.

SECTION 10 STABILITY AND REACTIVITY (Continued)

Hazardous decomposition products: Violent reactions between spray marker dye and oxidising agents are possible.

Hazardous reactions: No particular reactions to avoid.

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. Possible symptoms of exposure include: nausea, vomiting and central nervous system depression. Acute Oral LD₅₀ 400 - 2000 mg/kg for Rhodamine B.

Eye: This product is irritating to the eyes. Prolonged contact with the product may cause damage to the eye.

Skin: Prolonged contact with this product may be irritating to the skin. Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis. This product will stain the skin which may persist for some time

Inhaled: Inhalation of mists or sprays may produce respiratory irritation. Breathing vapour can result in headaches and nausea. The components of the product are of low volatility and no adverse effects are expected from handling the concentrate.

Long Term Exposure:

Chronic toxicity: Rhodamine B has been assessed in animals and some data exists that Rhodamine B is a substance which causes some concern for humans owing to possible carcinogenic effects from long term exposure, but in respect of which the available information is not adequate for making a satisfactory assessment. Rhodamine B has been included on US EPA List 4B. List 4B contains substances for which the US EPA has sufficient information to reasonably conclude that the current use pattern in pesticide products will not adversely affect public health or the environment.

SECTION 12 ECOLOGICAL INFORMATION

Environmental Toxicology: LC₅₀ (96 hr) for fish is 10 - 100 mg/L for Rhodamine B. No additional ecotoxicological data is available. As with all chemicals, do not contaminate dams, waterways or sewers with this product or used containers.

Environmental Fate: No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Spills and Disposal: Persons involved in clean-up require adequate skin protection - see Section 8. Spills and Disposal: 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.

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. 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 classified as a Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Marine and Air Transport: Product 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 not a Scheduled poison.

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA number 68849.

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 according to the ADG Code (7th ED). 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: 22 November 2021. Valid for 5 years till 22 November 2026. (5 year revision).

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).
Ataxia:	Inability to control the coordinate movements of the muscles.
Carcinogen:	An agent which is responsible for the formation of a cancer.
Combustible Liquid:	Liquids that ignite with a flash point greater than 60°C.
Flammable Liquid:	Liquids that ignite with a flash point less than 60°C.
Genotoxic:	Capable of causing damage to genetic material, such as DNA.
Mutagenic:	Capable of inducing a genetic mutation in an organism.
LD ₅₀ :	Median Lethal Dose A statistically derived single dose of a substance that can be expected to cause death in 50% of dosed animals.
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". 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.