


AGPRO Red Marker Dye G

1. SUBSTANCE IDENTIFICATION

SUPPLIER NAME	AGPRO NZ Limited
SUPPLIER ADDRESS	10 Polaris Place, East Tamaki, Auckland PO Box 58-963, Botany, Auckland 2163
SUPPLIER CONTACT DETAILS	09 273 3456 or Freephone 0508 536 536 www.agpro.co.nz
EMERGENCY PHONE	
POISON INFORMATION	0800 POISON (0800 764 766) 24 Hours
CHEMICAL EMERGENCY	0800 CHEMCALL (0800 243 622) 24 hours
CHEMICAL FAMILY	Rhodamine B
USE	Spray Marker Dye

2. HAZARDS IDENTIFICATION

Classified as hazardous according to the NZ Environmental Protection Authority criteria.

GHS CLASSIFICATIONS	Acute oral toxicity Category 4 Eye irritation Category 2 Specific target organ toxicity repeated exposure Category 2 Hazardous to the aquatic environment chronic Category 3
HSNO CLASSIFICATIONS	6.1D, 6.4A, 6.9B, 9.1C
SIGNAL WORD	WARNING
PICTOGRAMS	
HAZARD STATEMENTS	H302 Harmful if swallowed. H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.
PREVENTION STATEMENTS	P102 Keep out of reach of children. P103 Read carefully and follow all instructions. P260 Do not breathe mist/vapours/spray. P264 Wash face and hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves / protective clothing / eye protection / face protection.
RESPONSE STATEMENTS	P101 If medical advice is needed, have product container or label on hand. P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you 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. P314 Get medical advice/attention if you feel unwell. P330 Rinse mouth. P337 + P313 If eye irritation persists: Get medical advice/attention. P363 Wash contaminated clothing before reuse.
STORAGE STATEMENTS	See Section 7

AGPRO Red Marker Dye G

2. HAZARDS IDENTIFICATION

DISPOSAL STATEMENTS P501 Dispose of contents/ containers in accordance with relevant regulations. See Section 13.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMMON NAME	CAS NUMBER	CONCENTRATION % w/v
Rhodamine B	88-81-9	10 - 30%
Diethylene Glycol	111-46-6	>60%
Non-hazardous ingredients	Proprietary	Balance to volume

4. FIRST AID MEASURES

For advice call the National Poisons Centre 0800 POISON (0800 764 766) 24 hours or a doctor. If medical advice is needed have product container or label to hand.

EYE CONTACT	Rinse cautiously for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If eye irritation persists, get medical attention/advice.
SKIN (or hair) CONTACT	Remove contaminated clothing and flush skin and hair with running water. If skin irritation occurs, get medical advice/ attention. Wash contaminated clothing before reuse.
INHALATION	Remove to fresh air and keep at rest in a position comfortable for breathing. Apply artificial respiration if not breathing. Call doctor if you feel unwell.
INGESTION	Do NOT induce vomiting. Rinse mouth. Call the Poison Centre or a doctor if you feel unwell.
NOTES TO DOCTOR	Treat symptomatically.
FIRST AID FACILITIES	Eye wash facilities and safety shower should be available.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Use extinguishing media suitable for surrounding environment. Prevent extinguishing media from entering drains.
THERMAL DECOMPOSITION PRODUCTS	Non-flammable. Thermal decomposition may produce toxic fumes and compounds.
SPECIAL FIRE FIGHTING METHODS	Self-contained breathing apparatus with full face-piece and protective clothing. Cool fire exposed containers with water spray.
HAZCHEM CODE	Not applicable.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Exclude non-essential people from the area. Wear Personal Protective Equipment (PPE) as detailed in Section 8 of the SDS.
ENVIRONMENTAL PRECAUTIONS	Prevent product from entering waterways or drains.
SPILLS AND DISPOSAL	Spills may be slippery and should be cleaned up immediately. Contain spillage, then cover / absorb with inert, non-combustible absorbent material (attapulgit or similar). Collect and place in suitable, sealed, labelled containers for disposal. Wash area with water and absorb with further inert material. See Section 13 for details on disposal.

AGPRO Red Marker Dye G

7. HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING	Carefully read the product label before use. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands and face before eating. Prohibit eating, drinking and smoking in contaminated areas. Wash contaminated clothing before reuse.
STORAGE	Store in original container, tightly closed, in a secure, dry, cool and well-ventilated area and avoid direct sunlight. Store away from foodstuffs, fertilisers or seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Stores containing 1,000 litres or more of AGPRO Red Marker Dye G require secondary containment, signage and an emergency response plan.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS	No data available.
EYE PROTECTION	Wear eye/ face protection.
RESPIRATORY PROTECTION	Respiratory protection is not required if good ventilation is maintained. Where an inhalation risk exists, wear a Type A (Organic-Vapour) respirator.
PROTECTIVE CLOTHING	It is good practice to wear suitable personal protective equipment (PPE). Consult the companion product label for instructions on protective clothing requirements.
VENTILATION	Avoid inhalation. Use in well ventilated area.
HYGIENE PRECAUTIONS	Do not eat, drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands and face before breaks and after work.

9. APPEARANCE / STATE/ ODOUR

APPEARANCE / STATE/ COLOUR	Dark Red liquid.
ODOUR	Not Available.
ODOUR THRESHOLD	Not Available.
pH (1% solution)	3 - 5 (typical)
MELTING POINT / FREEZING POINT	Not Available
INITIAL BOILING POINT / BOILING RANGE	Not Available
FLASHPOINT	101°C.
FLAMMABILITY	Non-flammable
UPPER/LOWER FLAMMABILITY LIMITS	Not Available
VAPOUR PRESSURE	Not Available.
VAPOUR DENSITY	Not Available.
RELATIVE DENSITY	0.95 – 1.0 g/ml @ 25°C (typical)
SOLUBILITY	Miscible in water.
OCTANOL / WATER PARTITION COEFFICIENT	Not Available.
AUTOIGNITION TEMP	Not Applicable.
DECOMPOSITION TEMPERATURE	Not Available.
KINEMATIC VISCOSITY	Not Available

AGPRO Red Marker Dye G

9. APPEARANCE / STATE/ ODOUR

PARTICLE CHARACTERISTICS	Not Applicable
--------------------------	----------------

10. STABILITY AND REACTIVITY

STABILITY	Stable under normal storage conditions in original container for two years.
CONDITIONS TO AVOID	Stable under normal conditions.
MATERIALS TO AVOID	Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Thermal decomposition may produce toxic fumes and compounds.

11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS	No toxicological data is available for the finished product.
ORAL TOXICITY	Harmful if swallowed. LD50 (rat) 174 mg/kg for Rhodamine B
DERMAL TOXICITY	No information.
INHALATION TOXICITY	No information.
EYE CORROSION / IRRITANCY	Causes serious eye irritation.
SKIN CORROSION / IRRITANCY	No information.
CHRONIC EFFECTS	
CARCINOGENICITY	No information.
REPRODUCTIVE TOXICITY	No information.
GERM CELL MUTAGENICITY	No information.
ASPIRATION	No information.
STOT/SE	No information.
STOT/RE	May cause damage to organs from prolonged or repeated exposure.
NARCOTIC EFFECTS	No information.

12. ECOLOGICAL INFORMATION

TOXICITY	Harmful to aquatic life with long lasting effects.
PRECAUTIONS	As this product is a concentrated dye it must not be applied directly into or onto water. Avoid contamination of any water supply with product or empty container. Take all reasonable steps to ensure that this substance does not cause any significant adverse effects to the environment beyond the application area.
ECOTOXICOLOGICAL INFORMATION	No data available.
BIOACCUMMULATIVE	No data available.
READILY DEGRADABLE	No.

AGPRO Red Marker Dye G

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL	Dispose of by using product as intended, according to the label directions. If this is not possible, for small amounts, absorb with inert, non-combustible absorbent material (attapulgate or similar). Collect and place in a sealable, labelled container and safely dispose of at an approved landfill. For large amounts contact your supplier or chemical recycling facility.
CONTAINER DISPOSAL	Triple rinse container and add residue to spray tank. Return empty container to an Agrecovery collection point for disposal, or puncture and dispose of at an approved facility. Do NOT burn. Do not use the container for any other purpose.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE: DANGEROUS GOODS 2005, NZS 5433:2020, IMDG OR IATA

15. REGULATORY INFORMATION

HAZARDOUS SUBSTANCE GROUP STANDARD	HSR002503 Additives Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2020. See the EPA website for approval controls www.epa.govt.nz
ACVM REGISTRATION	Exempt from registration under the ACVM Act 1997.

16. OTHER INFORMATION

SDS ISSUE DATE	16 June 2022
SDS REVIEW DATE	June 2027
REFERENCES	Supplier SDS NZ Workplace Exposure Standard and Biological Exposure Indices (Nov 2020) NZ Chemical Classification Information Database NZ EPA Hazardous Substance Approvals and Group Standards
ABBREVIATIONS	
ACVM	Agricultural Compounds and Veterinary Medicines
CAS NUMBER	Chemical Abstract Service Number - used to uniquely identify chemical compounds
EPA	Environmental Protection Authority (New Zealand)
g/L	Grams per litre
GHS	Globally Harmonised System
HSNO	Hazardous Substances and New Organisms
LC50	Lethal Concentration, 50% / median lethal concentration
LD50	Lethal Dose, 50% / median lethal dose
mg/m3	Milligrams per cubic metre
STEL	Short Term Exposure Limit
WES	Workplace Exposure Standard
IMDG/IMO	International Maritime Dangerous Goods / International Maritime Organisation
IATA / ICAO	International Air Transport Association / International Civil Aviation Organisation
TLV	Threshold Limit Value
TWA	Time Weighted Average
OEL	Occupational Exposure Limit

AGPRO Red Marker Dye G

16. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products properties.

End of Safety Data Sheet