

1. SUBSTANCE IDENTIFICATION**AGPRO Red Marker Dye E**

SUPPLIER NAME: AGPRO NZ Limited
SUPPLIER ADDRESS: 10 Polaris Place, East Tamaki, Auckland.
SUPPLIER PHONE: 09 273 3456
EMERGENCY PHONE:
POISON INFORMATION: 0800 POISON (0800 764 766) 24 hours
CHEMICAL EMERGENCY: 0800 CHEMCALL (0800 243 622) 24 hours
CHEMICAL FAMILY: Rhodamine solution in methanol
USE: Marker Dye

2. HAZARDS IDENTIFICATION

Hazardous according to NZ Environmental Protection Authority Criteria

GHS Classifications: Flammable liquids Category 2
Acute dermal toxicity Category 3
Acute inhalation toxicity Category 3
Acute oral toxicity Category 3
Eye irritation Category 2
Reproductive toxicity Category 2
Specific target organ toxicity repeated exposure Category 1
Hazardous to the aquatic environment chronic Category 3

HSNO Classifications: 3.1B, 6.1C, 6.4A, 6.8B, 6.9A, 9.1C

Signal Word: DANGER



Pictograms:

Hazard Statements

H225 Highly flammable liquid and vapour.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.
H301 Toxic if swallowed.
H319 Causes serious eye irritation.
H361 Suspected of damaging fertility or the unborn child
H372 Causes damage to organs
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
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe fume/mist/vapours/spray.
P264 Wash face and hands thoroughly after handling.

AGPRO SAFETY DATA SHEET

DIRECT

AGPRO Red Marker Dye E

Issue Date: 4 November 2021
Review Date: November 2026

- 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 Statements

- P101 If medical advice is needed, have product container or label on hand
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P311 Call a POISON CENTER or doctor/physician.
P314 Get medical advice/attention if you feel unwell.
P330 Rinse mouth.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P361 + P364 Take off immediately all contaminated clothing and wash it before reuse
P370 + P378 In case of fire: Use water fog, foam, dry chemical powder for extinction

Storage Statements

- P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up
See section 7

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
Methanol	67-56-1	>50%
Rhodamine B	81-88-9	>20%

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 occurs, 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.
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: Call the POISON CENTRE or a doctor immediately. Do NOT induce vomiting. Rinse mouth.
NOTES TO DOCTOR: Treat symptomatically.
FIRST AID FACILITIES: Eye wash facilities and safety shower should be available

5. FIRE FIGHTING MEASURES

FLASHPOINT:	18°C
EXTINGUISHING MEDIA:	Water fog, carbon dioxide or dry chemical. Prevent extinguishing media from entering drains.
THERMAL DECOMPOSITION PRODUCTS:	Irritating vapour, includes oxides of carbon and nitrogen
SPECIAL FIRE FIGHTING METHODS:	Vapours may be toxic. Self-contained breathing apparatus with full face-piece and protective clothing. Cool fire exposed containers with water spray.
HAZCHEM CODE:	2WE

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. Switch off any electrical equipment until vapour fire hazard has been removed.
ENVIRONMENTAL PRECAUTIONS:	Prevent product from entering waterways or drains.
SPILLS AND DISPOSAL:	Contain spillage, then cover / absorb with inert, non-combustible absorbent material (attapulgit or similar). Collect and place in suitable, labelled containers for disposal. Wash area with water and absorb with further inert material. See section 13 for details on disposal.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Before use carefully read the product label. 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.
SAFE STORAGE:	Store in original container, tightly closed, in a locked, dry, cool and well-ventilated area and avoid direct sunlight. Do not store with DG classes 1 or 5. Store away from foodstuffs, fertilisers or seeds. Storage must be in accordance with NZS8409 Management of Agrichemicals. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Stores containing 250 litres or more of AGPRO Red Marker Dye E require 2 fire extinguishers and signage. More than 1000L require secondary containment and emergency response plans. Location compliance certificate required if following volumes are exceeded: Closed containers - 100L (in containers more than 5L in size) or 250L (in containers 5L or less in size) Open containers – 250L

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:	Methanol TWA 200ppm (262 mg/m ³). STEL 250ppm (328mg/m ³)
EYE PROTECTION:	Where eye contact is likely, wear splash-proof goggles.
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:	Where contact is likely, wear chemical-resistant gloves, coveralls, socks and chemical-resistant footwear.
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. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE / STATE / ODOUR:	Dark red liquid	pH:	7 -8
BOILING POINT:	90°C	SETTING POINT:	Not Available.
DENSITY:	0.98/mL @ 25°C	AUTOIGNITION TEMP:	464°C.
DECOMPOSITION TEMP:	Not Available.	VAPOUR DENSITY:	1.1 x air (methanol)
FLASHPOINT:	18°C.	VAPOUR PRESSURE:	128mm Hg @20oC (methanol)
EXPLOSION PROPERTIES:	Not Applicable.		
SOLUBILITY:	Completely miscible		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not Available.		

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

Stable under normal temperature and pressure. Avoid high temperature, ignition sources.

MATERIALS TO AVOID:

Strong acids/bases. Oxidising and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide, formaldehyde

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL:

Rhodamine

LD50 (rat) 174 mg/kg

Methanol

LD50 (human) 300mg/kg

ACUTE DERMAL:

Methanol

LD50 (human, 24hr) <1000mg/kg

ACUTE INHALATION:

Methanol

LD50 (human, 4 hr) <10mgL

OTHER TOXICITY INFORMATION:

None available

ACUTE

SWALLOWED:

Toxic if swallowed

EYE:

Causes serious eye irritation

SKIN:

Toxic in contact with skin.

INHALED:

Toxic if inhaled.

CHRONIC

Suspected of damaging fertility or the unborn child. May cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION

PRECAUTIONS:

Do not apply into or onto water.

TOXICITY:

Harmful to aquatic life with long lasting effects.

ECOTOXICOLOGICAL INFORMATION: No data available

BIOACCUMULATIVE: No data available

READILY DEGRADABLE: No

13. DISPOSAL CONSIDERATIONS

Do not contaminate streams, rivers or waterways with the chemical or the used container.

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 suitable, labelled containers and safely dispose 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. Do not burn. Return empty container to an approved recycle facility for disposal. Do not use the container for any other purpose.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE: DANGEROUS GOODS 2005, NZS 5433:2020, IMDG OR IATA



	Land Transport (NZS 5433)	Sea Transport (IMDG / IMO)	Air Transport (IATA / ICAO)
UN Number	1230	1230	1230
Proper Shipping Name	METHANOL SOLUTION	METHANOL SOLUTION	METHANOL SOLUTION
Transport hazard class	9	9	9
Subsidiary class	6	6	6
Packing Group	III	III	III
Hazchem	2WE	2WE	

15. REGULATORY INFORMATION

See the EPA website for approval controls
EPA Approval Code:

www.epa.govt.nz
HSR002495

16. OTHER INFORMATION

SDS issue date: 04 November 2021
SDS review date: November 2026

ABBREVIATIONS

CAS NUMBER	Chemical Abstract Service number - used to uniquely identify chemical compounds
EPA	Environmental Protection Agency (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/m ³	milligrams per cubic meter
STEL	Short term exposure limit
WSE	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

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