SAFETY DATA SHEET

GROMARK® REDLINE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Identifiers

Product name:	**GroMark® RedLine**
Other Name(s):	Marker Dye

1.2 Recommended use of the chemical and restrictions on use

Product Use:	Red marker dye additive to provide a temporary indication of spot or boom sprayed areas.

1.3 Supplier contact details:

Company name:	Sipcam New Zealand Ltd
Address:	20 Jean Batten Drive Mt Maunganui, 3116
Telephone:	0800 220 002
Email:	info@sipcam.co.nz
Emergency telephone number	0800 CHEMCALL (0800 243 622)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the Hazardous Chemical

Classified as hazardous according to criteria in the EPA Hazardous Substances (Minimum Degrees of Hazards) Notice 2017.

HSNO Substance Approval: HSR002503
Hazard Classifications: Acute oral toxicity Category 4; Skin corrosion/irritation Category 3; Serious eye damage/eye irritation Category 2; Specific target organ toxicity – single exposure Category 2; Hazardous to terrestrial vertebrates.

2.2 Label elements:

Pictograms:



Signal Word: WARNING

Hazard statements:

H302	Harmful if swallowed.
H316	Causes mild skin irritation
H319	Causes serious eye irritation
H371	May cause liver damage via ingestion
H433	Harmful to terrestrial vertebrates

Precautionary statements:

Prevention

P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe vapours.
P264	Wash hands and exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

P273	Avoid release to the environment.
P280	Wear protective gloves, clothing, eye/face protection
Response	
P101	If medical advice is needed, have product container or label at hand.
P301 + P312	IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical attention.
P309 + P311	IF exposed or if you feel unwell: Call a POISON CENTRE or doctor.
Storage	
P405	Store locked up.
Disposal	
P501	Dispose of contents/container in accordance with local regulations.

Additional labelling statements required under Hazardous Substances (Labelling) Notice 2017
Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No	Concentration
Rhodamine B/Cl. Basic Violet 10	81-88-9	15%
Diethylene Glycol	111-46-6	85%

This is a commercial product whose exact ratio of components may vary slightly. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Information:

If you feel unwell, or are exposed or concerned, call the National Poisons Centre, telephone 0800 POISON [0800 764 766], or a doctor. Have product label or container at hand. Workplace facility requirements - Eye wash and safety shower facilities should be provided.

IF SWALLOWED: Do not induce vomiting. Rinse mouth. Give small quantities of water. Never give anything by mouth to an unconscious person. Call a POISON CENTRE or doctor if you feel unwell. If vomiting occurs, keep head below hips to prevent aspiration to lungs

IF ON SKIN: Wash with plenty of soap and water. Get medical advice/attention if irritation persists.

IF IN EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if irritation persists.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/ attention if you feel unwell.

4.2 Symptoms caused by exposure

Unlikely to cause harmful effects under normal conditions of handling and use.

4.3 Medical attention and special treatment

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Use extinguisher suitable for surrounding environment and materials.

5.2 Specific hazards arising from the chemical

May release toxic fumes containing oxides of carbon.

5.3 Special protective equipment and precautions for fire fighters

Wear full personal protective equipment including with self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Have this SDS available. In the event of a spill, wear appropriate protective clothing, eye and skin protection. Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Wash contaminated personal protective equipment and clothing, and dry before re-use. An emergency response plan is required under Part 5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 when held in quantities greater than 1,000L

6.2 Environmental precautions

Avoid release to the environment. Prevent spillage from entering drains or waterways. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

6.3 Methods and materials for containment and cleaning up

Contain spilled material. For small liquid spills, use inert absorbent material, such as sand or vermiculite, and recover into labelled drums that can be sealed for safe disposal. For large liquid spills, recover liquid into labelled containers then absorb remaining liquid and transfer to drums for disposal. Clean area with water and detergent.

Dispose of contaminated materials to approved landfill in accordance with local regulations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Read the label before use. Do not eat, drink or smoke when using this product. Wear protective gloves, clothing, eye/face protection. Wash hands and exposed skin thoroughly after handling.

Do not apply directly into or onto water. Avoid contact with skin and eyes. Wear protective equipment such as coat/trouser (overalls), boots, gloves and eye protection. Do not use spray equipment contaminated with this product for any other purpose unless first thoroughly cleaned with a suitable cleaning detergent.

7.2 Conditions for safe storage

Store locked up in the closed original packaging out of reach of children and in a dry, cool, well-ventilated area and out of direct sunlight. Keep away from food, drink and animal feedstuffs. Storage of 1,000L or more of this product requires an emergency response plan, secondary containment and >10,000L requires signage.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters – exposure standards, biological monitoring

No Workplace Exposure Standards have been established for this product. A Workplace Exposure Standard has been set for the following ingredient:

Ingredient	TWA (mg/m^3)	STEL (mg/m^3)
Diethylene Glycol	23 ppm	101 mg/m^3

8.2 Engineering controls

Eyewash facilities and safety showers should be provided in the work area where there is a risk of exposure to eyes and skin. Natural ventilation should be adequate under normal conditions of use.

8.3 Personal protective equipment (PPE)

The following Standards provide general advice regarding safety clothing and equipment: Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Eye/Face Protection: Wear chemical splash goggles if eye contact is possible.

Skin Protection: Wear impervious chemical resistant gloves (e.g. nitrile, butyl), coveralls, socks and chemical resistant footwear. For overhead spray exposure, wear chemical resistant headgear. Ensure all skin areas are covered.

Respirator: Use outdoors in well-ventilated area or use local exhaust ventilation. Where product is being sprayed and a mist could be produced a respirator should be worn. It should be fitted with a cartridge, suitable for particulates.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Red Violet Liquid
Odour	Odourless
Odour threshold	No data available
pH	3 – 3.5
Melting/Freezing Point	No data available
Boiling Point /Range	> 240°C
Flash point	138°C
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive limits	2.1 – 12.3
Vapour Pressure	0.008 hPa @ 25°C
Vapour density	No data available
Specific gravity	1.1
Solubility	Completely miscible
Partition Co-efficient n-octanol/water	No data available
Auto-ignition temperature	229°C
Decomposition temperature	No data available
Viscosity	No data available
Particle characteristics	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reactions known. This product is unlikely to react or decompose under normal storage conditions.

10.2 Chemical stability

Stable under normal temperatures and pressure for storage and use.

10.3 Conditions to Avoid

High temperatures, incompatible materials, ignition sources. Avoid generating mists/sprays.

10.4 Incompatible materials and possible hazardous reactions

Keep away from strong oxidisers, strong alkalis, aluminium and its alloys, copper and its alloys, and neoprene.

10.5 Hazardous decomposition products

Fire Decomposition: May decompose on heating to release toxic fumes containing oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Health hazard information

The product is classified for health hazards according to an assessment of information on product.

11.2 Toxicological information

Acute toxicity:	LD50 oral > 300 - ≤ 2000 mg/kg. LD50 dermal > 5000mg/kg LC_{50} inhalation (mist/spray) > 5.0 mg/L
Inhalation:	Not an expected route of exposure during normal conditions of use.
Ingestion:	Harmful if swallowed. May cause nausea, vomiting
Skin Contact:	Mild skin irritant.
Eye Contact:	Eye irritant.
Sensitisation:	Not known to cause respiratory or contact sensitisation.
Mutagenicity/Carcinogenicity/ Reproductive toxicity	No chronic toxicity effects expected.
Specific target organ toxicity – single exposure	May cause damage to liver on ingestion.
	Toxicity data is based on hazardous ingredient information and information in the EPA Chemical Classification and Identification Database.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

This product is classified as being harmful to terrestrial vertebrates. Product is soluble in water. Ecotoxicity data is based on hazardous ingredient information.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product Disposal

Refer to product label. If possible, dispose of by using according to the label. Otherwise dispose of to an approved landfill in accordance with local regulations.

13.2 Container Disposal

Refer to product label. Do not use packaging for storage of any other products. Triple rinse empty container and add rinsate to spray tank. Submit container to Agrecovery® for recycling, or crush and send to approved landfill.

SECTION 14: TRANSPORT INFORMAITON

Road and Rail Transport:

Not classified as a Dangerous Good for transport in accordance with NZS5433:2012. Ensure transportation methods prevent leakage from packages and collapsing loads.

Marine Transport (IMO/IMDG):

Not classified as a Dangerous Good for transport by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Not classified as a Dangerous Good for transport by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

UN Number:	N/A
UN Proper Shipping Name:	N/A
Transport hazard class(es)	N/A

Packing Group:	N/A
Special Precautions for User:	N/A
IMDG Marine pollutant:	N/A
Transport in Bulk:	N/A

SECTION 15: REGULATORY INFORMATION

15.1 HSNO Act 1996

Hazardous substance according to Hazardous Substances (Hazard Classification) Notice 2020.

Approved substance number:	HSR002503 Group Standard Additives, Process Chemicals and Raw Materials (Subsidiary Hazard)
Hazard classifications:	Acute oral toxicity Category 4; Skin irritation Category 3: Eye irritation Category 2; Specific target organ toxicity – single exposure Category 2; Hazardous to terrestrial vertebrates.
Controls:	Refer to control on www.epa.govt.nz for complete wording for variation Controls.
Additional information:	Refer to HS Notices (www.epa.govt.nz) and HSW HS Regulations (www.worksafe.govt.nz)
Certified handler:	Not applicable
Tracking:	Not applicable
Signage trigger quantity (Schedule 3):	10,000L
Emergency Response Plan trigger quantity (Schedule 5):	1,000L
Secondary Containment trigger quantity (Schedule 16):	1,000L

15.2 ACVM Act 1997

Registration number: Not Applicable

SECTION 16: OTHER INFORMATION

16.1 Date of preparation or last revision of SDS

SDS issued	26 August 2026
SDS supersedes	30 January 2024
Reason issued	Change to Sipcam

16.2 ABREVIATIONS

ADI	Acceptable Daily Intakes
CAS number	Chemical Abstracts Service Registry Number
CCID	Chemical Classification Identification Database
EPA	Environmental Protection Authority
ErC_{50}	Half maximal Effective Concentration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HSNO	Hazardous Substances and New Organisms
HS	Health and Safety
HSR	Hazardous Substances Register
IARC	International Agency for Research on Cancer
LC_{50}	Median Lethal Concentration
LD_{50}	Median Lethal Dose

SDS	Safety Data Sheets
NOAEL	No Observable Adverse Effect Level
NOEL	No Observable Effect Level
NOS	Not otherwise specified
STEL	Short Term Exposure Limit
SWA	Safety Work Australia
TWA	Time-Weighted Average
UN Number	United Nations Number

16.3 REFERENCES

EPA CCID and Approved Substance databases

PPDB- Pesticides Properties DataBase

16.4 OTHER

GroMark® is a registered trademark of Sipcam New Zealand Ltd

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End of Safety Data Sheet