SAFETY DATA SHEET

GroFresh®

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Identifiers

Product name:	**GroFresh®**
Other Name(s):	Vapour releasing powder containing 33 g/kg 1-methylcylcopropene

1.2 Recommended use of the chemical and restrictions on use

Product Use:	Plant growth regulator for post-harvest treatment of fruit.

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

Not a hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996

HSNO Substance Approval: Not applicable.

Classifications: Not applicable.

2.2 Label elements:

Pictograms: Not required.

Signal Word: Not required

Hazard statements:

Additional labelling statements required under Hazardous Substances (Labelling) Notice 2017

Precautionary statements:

Prevention

-

Response

-

Storage

- .

Disposal

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion % w/w
1-Methylcyclopropene	3100-04-7	3.3
Other ingredients	Trade secret	balance

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Information:

For advice call the National Poison Centre, telephone 0800 POISON [0800 764 766]. Have label or Safety Data Sheet at hand.

Ingestion: If swallowed, rinse mouth with water. Call the NATIONAL POISONS CENTRE or doctor for advice if you feel unwell.

Skin Contact: Remove contaminated clothing and wash skin with plenty of soap and water. Get medical advice if irritation persists.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice if irritation persists.

Inhalation: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call the NATIONAL POISONS CENTRE or doctor for advice 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 water spray or fog, foam, CO2 or dry chemical as appropriate for surrounding materials.

5.2 Specific hazards arising from the chemical

Fire decomposition products may be harmful and/or irritating if inhaled.

Evacuate people to safe area upwind of fire.

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 and eye/hand protection. Wash contaminated personal protective equipment and clothing and dry before re-use.

6.2 Environmental precautions

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. Collect into labelled container or bag that can be sealed for safe disposal. Contact with water/moisture will release 1-MCP which is hazardous.

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. Follow label instructions. Avoid contact with eyes, skin and clothing. Avoid breathing vapour. Wash hands and exposed skin with soap and water after handling and before rest or meal breaks.

7.2 Conditions for safe storage

Store securely in the hermetically sealed original packaging out of reach of children and in a dry, cool, well-ventilated area and out of direct sunlight. Store away from animal feed or food stuffs.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters – exposure standards, biological monitoring

Ingredient	TWA (mg/m^3)	STEL (mg/m^3)

8.2 Engineering controls

Use according to label directions.

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 overalls, impervious gloves, socks and chemical resistant footwear.

Respirator: Follow label instructions. In entering unvented treatment area wear full face respirator fitted with organic/gas cartridge or cannister.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White powder
Odour	None
Odour threshold	Not known
pH	6.0 – 8.0 (1% aq)
Melting/Freezing Point	No data available
Boiling Point /Range	No data available
Flash point	Non flammable
Flammability (solid, gas)	Not applicable
Vapour Pressure	2 X 10^{08} mPa (for 1-MCP)
Vapour density	No data available
Density	0.4 – 0.538 g/cm^3
Solubility	Dispersible in water
Partition Co-efficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

This product is unlikely to react or decompose under normal storage conditions.

10.2 Chemical stability

Stable in hermetically sealed packaging under normal temperatures and pressure for storage and use.

10.3 Conditions to Avoid

Avoid storage in direct sunlight or moisture/water.

10.4 Incompatible materials and possible hazardous reactions

Releases 1-MCP gas on exposure to moisture/water. Avoid contact with alkalis, acids and strong oxidising agents.

10.5 Hazardous decomposition products

Fire Decomposition: Unspecified compounds.

10.6 Polymerisation

Not known to occur.

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:	Not classified.
Aspiration hazard:	Not classified.
Respiratory irritation:	Not classified.
Skin corrosion/irritation	Not classified.
Serious eye damage/irritation	Not classified.
Respiratory or skin sensitisation	Not classified.
Germ cell mutagenicity:	No ingredients in product identified as presumed or suspected mutagens.
Carcinogenicity	No ingredients in product identified as presumed or suspected carcinogens.
Reproductive toxicity	No ingredients in product identified suspected of damaging fertility or the unborn child.
Specific target organ toxicity – single/repeated exposure	Not classified.
Narcotic effects	Not classified.

11.3 Toxicological data:

1-methylcyclopropene	Rat, oral LD_{50} >5000 mg/kg b.w. Rat, dermal LD_{50} >5000 mg/kg b.w. Rat, inhalation LC_{50} (4 hr) >5.12 mg/L

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

This product is not classified as being ecotoxic.

12.2 Environmental Fate

Breakdown in soil and groundwater: Expected to be rapid.

Bioaccumulation: BCF is low for 1-MCP.

Partition coefficient (octanol/water): Information not available.

Soil mobility: Information not available.

12.3 Ecotoxicity data:

1-methylcyclopropene	Fish: Rainbow trout LC_{50} (96 hr) >0.966 mg/L Crustacea: *Daphnia spp* EC_{50} (48 h) >0.776 mg/L Alga: *Selenastrum capricornutum* EC_{50} biomass (72 hr) 0>0.838 mg/L Aquatic plant: *Lemna gibba* EC_{50} (7 d) >58 mg/kg

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. Do not burn.

13.2 Container Disposal

Refer to product label. Empty packaging should be disposed of to an approved landfill. Do not burn.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport:

Classified as non-Dangerous Good according to NZS5433 Transport of Dangerous Goods on Land

Marine Transport (IMO/IMDG):

Classified as non-Dangerous Good by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Classified as non-Dangerous Good by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

UN Number:	Non-regulated
UN Proper Shipping Name:	
Transport hazard class(es)	
Packing Group:	
HAZCHEM:	
Special Precautions for User:	
IMDG Marine pollutant:	
Transport in Bulk:	

SECTION 15: REGULATORY INFORMATION

15.1 HSNO Act 1996

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

Approved substance number:	Not required
Hazardous classifications:	Not applicable
Controls:	-
Additional information:	Refer to HS Notices (www.epa.govt.nz) and HSW HS Regulations (www.worksafe.govt.nz)

15.2 ACVM Act 1997

Registration number: P9823

Refer to www.foodsafety.govt.nz for registration conditions.

SECTION 16: OTHER INFORMATION

16.1 Date of preparation or last revision of SDS

SDS issued	26 August 2026
SDS supersedes	11 August 2021
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

GroFresh® is a trademark of Sipcam New Zealand Ltd.

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End of Safety Data Sheet