

SAFETY DATA SHEET SURETHIN®

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Identifiers	
Product name:	

Product name: SURETHIN® Other Name(s): Water dispersi

Water dispersible granule containing metamitron 700 g/kg

1.2 Recommended use of the chemical and restrictions on use Product Use: Plant growth regulator

1.3 Supplier contact details:

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Company name:	Grosafe Chemicals Limited
Address:	20 Jean Batten Drive Mt Maunganui, 3116
Telephone:	0800 220 002
Email:	info@grosafe.co.nz

Emergency telephone number

0800 CHEMCALL (0800 243 622)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the Hazardous Chemical

Hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996 HSNO Substance Approval: HSR101023 Classifications: 6.1D, 6.3B, 9.1A, 9.2A, 9.3C.

2.2 Label elements:

Pictograms:



Signal Word: WARNING

Hazard statements:

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H316 Causes mild skin irritation.
- H332 Harmful if inhaled.
- H410 Very toxic to aquatic life with long lasting effects.
- H421 Very toxic to the soil environment.
- H433 Harmful to terrestrial vertebrates.

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.

Precautionary statements:

Prevention	
P102	Keep out of reach of children.
P103	Read label before use.
P261	Avoid breathing mist/spray.
P264	Wash hands thoroughly after handling.
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/clothing.
Response	
P101	If medical advice is needed, have product container or label at hand.
P301 + P312	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
P330	Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P363	Wash contaminated clothing before re-use.
P391	Collect spillage.
Storage	
-	
Disposal	
P501	Dispose of contents/container in accordance with local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion % w/w
Metamitron	41394-05-2	70
Other ingredients	Trade secret	balance

This is a commercial product whose exact ratio of components may vary slightly.

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. Have product label or SDS at hand.

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

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, Contain extinguishing media to prevent runoff into drains, sewers, waterways.

5.2 Specific hazards arising from the chemical

Fire decomposition products (carbon oxides, nitrogen oxides, hydrogen cyanide) may be toxic/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, eye and 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. Recover granules into container for reuse or disposal. For small liquid spills, use absorbent material such as sand, soil, 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 apply directly into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

When applied product avoid inhalation of spray mist/aerosols. Wear protective equipment such as coat/trouser (overalls), boots, gloves and eye protection.

Wash hands and exposed skin with soap and water after handling and before rest or meal breaks. Do not eat, drink or smoke when using.

Use only outdoors or in well-ventilated area.

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 securely in the closed original packaging out of reach of children and in a dry, cool, wellventilated area and out of direct sunlight. Keep away from sources of heat, food, drink and animal feedstuffs.

Storage of 100 kg or more of this product requires an emergency response plan, secondary containment and signage.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters – exposure standards, biological monitoring

Ingred	ient	TWA (mg/m³)	STEL (mg/m³)
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8.2 Engineering controls

Use in well-ventilated area or outdoors.

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/agricultural chemicals..

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

White/off-white granule
Non specific
Not known
4.0 – 8.0 (10% aqueous dispersion)
No data available
No data available
Non flammable
Not applicable
No data available
No data available
0.75 g/cc
Disperses in water
No data available
No data available
No data available
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 under normal temperatures and pressure for storage and use.

10.3 Conditions to Avoid

Avoid storage in direct sunlight or exposure to heat.

10.4 Incompatible materials and possible hazardous reactions No information available.

10.5 Hazardous decomposition products

Fire Decomposition: Smoke, carbon and nitrogen oxides, hydrogen cyanide and other 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:	Classified as harmful if ingested or in contact with skin or inhaled.
	Aspiration hazard:	Product contains no components with aspiration hazard.
	Respiratory irritation:	May be slightly irritating.
	Skin corrosion/irritation	Classified as a mild skin irritant.
	Serious eye damage/irritation	Not classified as an eye irritant.
	Respiratory or skin sensitisation	Not classified as respiratory or contact sensitiser.
	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	No classified for adverse effects to organs or systems.
	Narcotic effects	Product contains no ingredient identified as causing narcotic effects.
11.3	S Toxicological data:	
	Metamitron	Oral, LD₅₀ (dog) 650 mg/kg bw
		Dermal, LD ₅₀ (rat) 1000 mg/kg bw

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

This product is classified as very toxic to aquatic life with long lasting effects, very toxic to the soil environment and harmful to terrestrial vertebrates.

Inhalation, LC50 (mouse, hamster) 0.206 mg/L

12.2 Environmental Fate

Breakdown in soil and groundwater: DT₅₀ reported as 22.2 to 44.5 days.

Bioaccumulation: Low bioaccumulation potential. **Partition coefficient (octanol/water):** Log P 0.85 (25 °C, pH 7.0) **Soil mobility:** Product disperses in water.

12.3 Ecotoxicity data:

Metamitron

Fish: Rainbow trout LC₅₀ (96 hr) >190 mg/L Crustacea: *Daphnia magna* EC₅₀ (48 h) 5.7 mg/L Alga: *Scenedesmus subcapitata* EC₅₀ (72 hr) 0.22 mg/L Earthworm: *Eisenia foetida* LC₅₀ (14 d) 914 mg/kg soil Bird: *Coturnix japonica* LD₅₀ 1302 mg/kg bw

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 other products. Empty packaging should be disposed of to an approved recycler or crushed and sent to approved landfill.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport:

Classified as Dangerous Good Class 9 according to NZS5433 Transport of Dangerous Goods on Land

Marine Transport (IMO/IMDG):

Classified as Dangerous Good Class 9 by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Classified as Dangerous Good Class 9 by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

UN Number:	3082
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS METAMITRON 70%)
Transport hazard class(es)	9
Packing Group:	III
HAZCHEM:	2Z
Special Precautions for User:	-
IMDG Marine pollutant:	YES
Transport in Bulk:	-

SECTION 15: REGULATORY INFORMATION

15.1 HSNO Act 1996

Hazardous substance according to Hazardous Substances (Classification) Notice 2017.		
Approved substance number:	HSR101023	
Hazardous classifications:	6.1D, 6.3B, 9.1A, 9.2A, 9.3C.	
Controls: Refer to control on <u>www.epa.govt.nz</u> for complete wording variation Controls.		

77A Do not apply onto or into water.

- 77A To be applied by ground-based methods only.
- 77A Apply a maximum 740 g product/ha (518 g active/ha) per application, with a maximum application frequency of twice per year with a minimum interval period of 5 days between applications.
- 77A The person in charge of the application of the product and anyone applying the product must ensure the product is not applied within 15 m of downwind target plants.

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: P9503 Surethin® Refer to <u>www.foodsafety.govt.nz</u> for registration conditions.

SECTION 16: OTHER INFORMATION

16.1 Date of preparation or last revision of SDS		
SDS issued	23rd December 2020	
SDS supersedes	SDS dated 17 th September 2018	
Reason issued	Update of SDS format and product information.	

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

Surethin® is a trademark of Grosafe Chemicals Ltd

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End of Safety Data Sheet