

# Grosafe Chemicals Limited

## SAFETY DATA SHEET

### SURETHIN®

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

##### 1.1 Identifiers

Product name: Surethin®  
Other Name(s): Water dispersible granule containing metamitron 700 g/kg

##### 1.2 Recommended use of the chemical and restrictions on use

Product Use: Plant growth regulator for apples.

##### 1.3 Supplier contact details:

Company name: Grosafe Chemicals Limited  
Address: 20 Jean Batten Drive Mt Maunganui, 3116  
Telephone: 0800 220 002  
Email: [info@grosafe.co.nz](mailto: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  
Classifications: 6.1B (inhalation), 6.1D (oral, dermal), 6.3B, 9.1A, 9.2A, 9.3C

##### 2.2 Label elements:

###### Pictograms:



**Signal Word:** DANGER

###### Hazard statements:

H302 Harmful if swallowed.  
H312 Harmful in contact with skin  
H316 Causes mild skin irritation.  
H330 Fatal if inhaled  
H400 Very toxic to aquatic life  
H421 Very toxic in the soil environment  
H433 Harmful to terrestrial vertebrates.

**Precautionary statements:***Prevention*

P102	Keep out of reach of children.
P260	Do not breathe dust/mist/spray.
P264	Wash hands and any exposed skin 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, protective clothing and eye/face protection.
P284	Wear respiratory protection.

*Response*

P301 + P312	IF SWALLOWED: Call a Poison Centre or doctor if you feel unwell
P330	Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical advice.
P312	Call a POISON CENTRE or doctor if you feel unwell.
P363	Wash contaminated clothing before re-use.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P310	Immediately call a Poison Centre or doctor.
P391	Collect spillage.

*Storage*

P403 + P233	Store in a well-ventilated area. Keep cool.
P405	Store locked up.

*Disposal*

P501	Dispose of contents/container in accordance with local regulations.
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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients	CAS	Proportion
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] for advice. Have label or Safety Data Sheet at hand

**Ingestion:** If swallowed, do NOT induce vomiting. Rinse mouth with water and then give glass or two of water to drink. Get medical advice if person feels unwell.

**Skin Contact:** Remove contaminated clothing and wash affected area with soap and water. If irritation occurs then get medical advice.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists then get medical attention.

**Inhalation:** Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Centre or doctor.

#### 4.2 Symptoms caused by exposure

None specified.

#### 4.3 Medical attention and special treatment

Treat symptomatically.

### SECTION 5: FIRE FIGHTING MEASURES

#### 5.1 Suitable extinguishing media

Use water spray, alcohol resistant foam, dry powder or carbon dioxide. Contain to prevent runoff into drains, sewers, waterways.

#### 5.2 Specific hazards arising from the chemical

Fire decomposition products (carbon oxides, hydrogen cyanide, nitrogen oxides) may be toxic if inhaled.

#### 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

In the event of an accidental spill, wear full protective clothing including respiratory, eye and face 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 into labelled drums that can be sealed for safe disposal. If spray mixture is spilled, absorb and collect in drums. Deal with all spillages immediately.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Read the label before use. Use only outdoors or in well-ventilated environment. Certified handler required. Tracking control applies. Avoid contact with skin and eyes. Avoid inhalation of dust, spray mist/aerosols. Wear coat/trouser (overalls), boots, waterproof hat, respirator, gloves and eye protection when handling product. Wash hands and exposed skin after handling. Do not eat, drink or smoke when using. 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. Keep away from food, drink and animals feeding stuffs.

### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### 8.1 Control parameters – exposure standards, biological monitoring

Ingredient	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Particulates	10 3 (respirable)	-

Exposure limits have not been established for any of the significant ingredients in this product. No biological limits applicable.

## 8.2 Engineering controls

Use outdoors to ensure adequate ventilation.

## 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 protective glasses or goggles when mixing or applying product.

**Skin Protection:** Wear impervious gloves, coat, trousers, waterproof hat. Ensure all skin areas are covered.

**Respirator:** Where product is being sprayed and a mist could be produced a respirator should be worn. It should be fitted with a type G cartridge, suitable for agricultural chemicals.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White or off-white granule
Odour	Not specific information
Odour threshold	Not known
pH	4.0 – 8.0 (as 10% aqueous solution)
Melting/Freezing Point	No data available
Boiling Point /Range	Not applicable
Flash point	Non flammable
Flammability (solid, gas)	Not applicable
Vapour Pressure	No data available
Vapour density	No data available
Bulk density	0.75 g/ml
Solubility	Disperses 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 under normal temperatures and pressure for storage and use.

### 10.3 Conditions to Avoid

Storage in direct sunlight.

### 10.4 Incompatible materials and possible hazardous reactions

No information available.

### 10.5 Hazardous decomposition products

**Fire Decomposition:** Carbon monoxide, carbon dioxide, and other unspecified compounds

**Polymerisation:** This product will not undergo polymerisation reactions.

## 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:	May be fatal if inhaled. Product is classified as harmful by oral and dermal exposure.
Aspiration hazard:	Product contains no solvents identified with aspirant hazard.
Respiratory irritation:	No effects identified.
Skin corrosion/irritation	Product is classified as mild skin irritant.
Serious eye damage/irritation	Product is not classified.
Respiratory or skin sensitisation	Product is not classified.
Germ cell mutagenicity:	No ingredients in product classified as presumed or suspected mutagens.
Carcinogenicity	No ingredients in product classified as presumed or suspected carcinogens.
Reproductive toxicity	No ingredients in product classified as presumed or suspected of impairing fertility or the unborn child
Specific target organ toxicity – single/repeated exposure	No ingredients in product classified for target organ toxicity.
Narcotic effects	Product contains no ingredient identified as causing narcotic effects.

### 11.3 Toxicological data:

Metamitron	Inhalation, mouse LC <sub>50</sub> (4 hr) 0.206 mg/L Oral, dog LD <sub>50</sub> 650 mg/kg b.w. Oral, rat LD <sub>50</sub> 1183 mg/kg b.w. Dermal, rate LD <sub>50</sub> 1000 mg/kg b.w.
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## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

This product is classified as being very toxic to aquatic life, very toxic in the soil environment and as harmful to terrestrial vertebrates.

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

Metamitron	Rainbow trout LC <sub>50</sub> (96 h) >190 mg/L <i>Daphnia magna</i> LC <sub>50</sub> (48h) 5.7 mg/L <i>Scenedesmus subcapitata</i> , EC <sub>50</sub> (72h) 0.22mg/L Earthworm ( <i>Eisenia foetida</i> ) LC <sub>50</sub> (14 d) 914 mg/kg Bird ( <i>Coturnix japonica</i> ) LD <sub>50</sub> 1302 mg/kg
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### 12.2 Environmental Fate

**Breakdown in soil and groundwater:** No specific information available on product. The DT<sub>50</sub> (30 d) for metamitron is reported as 2.2 to 44.5 days.

**Bioaccumulation:** No specific information available on product.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Product Disposal

Use the product for its intended purpose according to label. Otherwise dispose of unused product to waste management facility for pesticides or to landfill.

### 13.2 Container Disposal

Do not use packaging for storage of other products. Triple rinse container and add residue to mixture. If circumstances, especially wind direction, permit the empty containers may be burned, otherwise bury in a suitable land fill.

## 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 69 by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

<b>UN Number:</b>	3077
<b>UN Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (METAMITRON)
<b>Transport hazard class(es)</b>	9
<b>Packing Group:</b>	III
<b>HAZCHEM</b>	2Z
<b>Special Precautions for User:</b>	
<b>IMDG Marine pollutant:</b>	Yes
<b>Transport in Bulk:</b>	Not available

## SECTION 15: REGULATORY INFORMATION

### 15.1 HSNO Act 1996

Hazardous substance according to Hazardous Substances Regulations

**Approved substance number:** HSR101023

**Hazardous classifications:** 6.1B (inhalation), 6.1D (oral, dermal) 6.3B, 9.1A, 9.2A, 9.3C

**Controls:** Refer to the HS Notices ([www.epa.govt.nz](http://www.epa.govt.nz)) and HSW HS Regulations ([www.worksafe.govt.nz](http://www.worksafe.govt.nz))

### 15.2 ACVM Act 1997

**Registration number:** P009503

Refer to [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

## SECTION 16: OTHER INFORMATION

### 16.1 Date of preparation or last revision of SDS

<b>SDS issued</b>	17 <sup>th</sup> September 2018
<b>SDS supersedes</b>	Not applicable
<b>Reason issued</b>	New product

## 16.2 ABBREVIATIONS

<b>ADI</b>	Acceptable Daily Intakes
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>CCID</b>	Chemical Classification Identification Database
<b>EPA</b>	Environmental Protection Authority
<b>ErC<sub>50</sub></b>	Half maximal Effective Concentration
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>HSNO</b>	Hazardous Substances and New Organisms
<b>HS</b>	Health and Safety
<b>HSR</b>	Hazardous Substances Register
<b>IARC</b>	International Agency for Research on Cancer
<b>LC<sub>50</sub></b>	Median Lethal Concentration
<b>LD<sub>50</sub></b>	Median Lethal Dose
<b>SDS</b>	Safety Data Sheets
<b>NOAEL</b>	No Observable Adverse Effect Level
<b>NOEL</b>	No Observable Effect Level
<b>NOS</b>	Not otherwise specified
<b>STEL</b>	Short Term Exposure Limit
<b>SWA</b>	Safety Work Australia
<b>TWA</b>	Time-Weighted Average
<b>UN Number</b>	United Nations Number

## 16.3 REFERENCES

Manufacturer information  
EPA CCID and Approved Substance databases  
University of Hertfordshire Pesticides Properties Database

## 16.4 OTHER

SureThin<sup>®</sup> is a registered trademark of Grosafe Chemicals Ltd

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End of Safety Data Sheet