



## SAFETY DATA SHEET ECKOSIL SHIELD

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

#### 1.1 Identifiers

Product name: **ECKOSIL SHIELD**  
Other Name(s):

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

Product Use: Liquid fertiliser for use as a cuticle enhancer and stress protectant.

#### 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

Product is classified as non-hazardous according to Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act 1996.  
HSNO Substance Approval: Not required.  
Hazard Classification: Not required.

#### 2.2 Label elements:

**Pictograms:** Not required

**Signal Word:** Not required

#### **Hazard statements:**

#### **Additional statements required on label:**

None specified

#### **Precautionary statements:**

##### *Prevention*

No prevention statements

##### *Response*

No response statements

##### *Storage*

No storage statements

##### *Disposal*

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

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion % w/w
Mixture *	Trade secret	100
*contains 13.86 g/L silicon and 29.5 g/L silicon dioxide		

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. Do NOT induce vomiting. 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 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. If experiencing breathing difficulties, get medical assistance.

#### 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, CO<sub>2</sub> 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, smoke) 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 eye and hand protection and protective clothing. 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. For small liquid spills, use absorbent material such as sand, soil, vermiculite and recover into labelled container 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.

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. Avoid contact with skin and eyes. Always wear eye or face protection, protective clothing, and gloves when handling or using product.

Avoid inhalation of mist, spray or vapours. Use only outdoors or in a well-ventilated area.

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

Wash contaminated clothing before re-use.

Avoid contamination of drains, waterways.

### 7.2 Conditions for safe storage

Store securely in the closed original packaging out of reach of children and in a dry, cool, well-ventilated area and out of direct sunlight. Avoid extremes of temperature.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

Workplace exposure standard and biological exposure indices, ed. 13, April 2022.

Ingredient	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )

### 8.2 Engineering controls

Use in well-ventilated area to avoid breathing spray mist.

### 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 safety glasses with side shields, chemical goggles, or face shield. .

**Skin Protection:** Wear impervious gloves (e.g. nitrile, butyl), protective clothing and closed in footwear to prevent skin contact.

**Respirator:** Not required when used in well-ventilated area.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Odour	Non specific
Odour threshold	Not known
pH	2.0
Melting/Freezing Point	No data available
Boiling Point /Range	>100°C
Flash point	Non flammable
Flammability (solid, gas)	Not applicable
Vapour Pressure	No data available
Vapour density	No data available
Relative density	1.2
Solubility	Soluble 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

Contact with bases; temperature extremes.

### 10.4 Incompatible materials and possible hazardous reactions

Bases; Corrosive vapours or gases.

### 10.5 Hazardous decomposition products

**Fire Decomposition:** Smoke, carbon oxides.

### 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 by the supplier.

### 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 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 Toxicological data:

No information available.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

This product is not classified as being ecotoxic by assessment by the supplier. However, take precautions to prevent discharge to sewers or waterways.

### 12.2 Environmental Fate

**Breakdown in soil and groundwater:** No information.

**Bioaccumulation:** No information.

**Partition coefficient (octanol/water):** No information.

**Soil mobility:** Product disperses in water.

**12.3 Ecotoxicity data:** Not available.

## 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 water rinsed packaging should be disposed of to an approved recycler (Agrecovery) or crushed and sent to approved landfill.

## 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:** No

**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:** Not applicable

**Additional information:** -

### 15.2 ACVM Act 1997

**Registration number:** Exempt

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>	7 <sup>th</sup> February 2022
<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

EPA CCID and Approved Substance databases  
PPDB- Pesticides Properties DataBase

## 16.4 OTHER

-

Information contained in this Safety Data Sheet is provided in good faith and is believed to be correct at the date hereof. However, it's expected that individuals receiving the information will exercise independent judgement in determining its appropriateness for a particular purpose. Grosafe Chemicals Ltd makes no representation whatsoever as to the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability whatsoever, whether with respect to negligence or otherwise, and no responsibility as permitted by law for any loss or damage arising from or connection with the supply or use of the information in this Safety Data Sheet.

End of Safety Data Sheet