



## MAXSIL™ - SAFETY DATA SHEET

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### IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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MAXSIL is a powder material designed as an ingredient for the manufacture of liquid potassium or calcium silicate formulations and granular plant nutrients.

The material is supplied by MaxSil Pty Ltd, 1/21 Belconnen Crescent, Brendale Qld 4500

**Telephone contact numbers of 0411 862 647, 0408 642 611**

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### HAZARDS IDENTIFICATION

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Does not meet the criteria of the UN Globally Harmonised System (GHS) for hazard classification

Not classified as a dangerous good by the criteria of the ADG code

#### Safety Phases

S22	Do not breathe dust
S36	Wear suitable protective clothing
S51	Use only in well ventilated areas

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### COMPOSITION/INFORMATION ON INGREDIENTS

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<b>Substance:</b>	MAXSIL spheres
<b>Synonyms:</b>	Amorphous Silica, Silicon Dioxide
<b>CAS No:</b>	7631-86-9
<b>Substance:</b>	Calcium
<b>Synonyms:</b>	Calcium Carbonate, Oxides of Calcium
<b>CAS No:</b>	7440-70-2
<b>Substance:</b>	Sodium Carbonate
<b>Synonyms:</b>	Washing Soda, Soda Ash
<b>CAS No:</b>	497-19-8

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**FIRST AID MEASURES**

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<b>Inhalation:</b>	If inhaled to excess remove exposed person to fresh air. If necessary, seek medical attention.
<b>Skin Contact:</b>	Wash skin with mild soap and water
<b>Eye Contact:</b>	Flush eyes with water and carefully rinse under the eyelids. If necessary seek medical attention.
<b>Ingestion:</b>	Obtain first aid or medical assistance immediately

**Most important Symptoms/Effects, Acute and Delayed:**

Dust may result in irritation

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**FIRE FIGHTING MEASURES**

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<b>Fire and explosion hazards:</b>	MAXSIL is non-combustible. No danger of explosion.
<b>Extinguishing Media:</b>	Not applicable
<b>Protective equipment for Fire fighting:</b>	Wear NIOSH approved self-contained breathing apparatus
<b>NFPA Ratings:</b>	O = minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
	Health = O Fired = O Reactivity = O

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**ACCIDENTAL RELEASE MEASURES**

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<b>Personal Precautions:</b>	Use 42 CFR 84 NIOSH/MSHA approved respirators when airborne concentrations equal or exceed the Permissible Exposure Limit.
<b>Containment and cleanup:</b>	Collect using methods that minimise creation of airborne dust such as vacuum cleaning. Place in a suitable container for recycling or disposal.

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## HANDLING AND STORAGE

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**Safe Handling:** Avoid generating dust, handle with adequate ventilation

**Storage:** Keep dry, store in closed containers

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## PERSONAL PROTECTION AND EXPOSURE CONTROLS

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### Exposure Standards:

Ingredient	Reference	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>
Calcium Carbonate	SWA (AUS)	-	Not Set	-	-
Amorphous silica (respirable dust)	SWA (AUS)	-	2	-	-
Sodium Carbonate	SWA (AUS)	-	10	-	-

**Biological Limits:** No biological limit allocated

**Engineering Controls:** Avoid inhalation. Use in well ventilated areas. Where an Inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

### PPE

**Eye/Face:** Wear dust proof goggles

**Hands:** If heavy contamination is likely wear leather or cotton gloves

**Body:** Not required under normal conditions of use

**Respiratory:** Wear a Class P2 (particulate) respirator

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## PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** Fine white to grey powder

**Odour:** Odourless

**Flammability:** Non-Flammable

**Flash Point:** Not Relevant

**Melting Point:** 1550° to 1700° Celsius

**pH:** 7.5-8.5 (1% slurry)

**Specific Gravity:** 1.5

**Solubility (water):** Insoluble

**Density** 800-1,000 kg/m<sup>3</sup>

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## STABILITY AND REACTIVITY

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**Chemical stability:** Stable under recommended conditions of storage  
**Conditions to avoid:** Avoid heat, sparks, open flames and other ignition sources  
**Material to avoid:** Incompatible with hydrofluoric acid (may evolve toxic silicon tetrafluoride gas) heating this product over 500° C may result in the formation of crystalline silica (Cristobalite or tridymite) which can cause silicosis and is a known human carcinogen

**Hazardous Decomposition Products:** Not expected to evolve hazardous decomposition products

**Hazardous reactions:** Polymerization will not occur

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## TOXICOLOGICAL INFORMATION

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**Health Hazard summary:** Irritant. Use safe work practices to avoid eye or skin contact or inhalation. Over exposure to amorphous silica does not cause silicosis.

**Eye:** Irritant. Contact may result in irritation, lacrimation, pain and redness.

**Inhalation:** Irritant. Over exposure to dust may result in mucous membrane irritation of the respiratory tract. Symptoms may be delayed until several hours after exposure.

**Skin:** Irritant. Contact may result in irritation, redness, pain and rash

**Ingestion:** Low toxicity. Ingestion of large quantities may result in nausea, vomiting and gastrointestinal irritation.

**Toxicity data:** No LD50 data is available for this product.

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## TRANSPORT INFORMATION

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Not Classified as a Dangerous Good by the Criteria of the ADG Code, IMDG or IATA

	Land Transport (ADG)	Sea Transport (IMDG/IMO)	Air Transport (IATA/ICAO)
UN Number	<i>None allocated</i>	<i>None allocated</i>	<i>None allocated</i>
Proper Shipping Name	<i>None allocated</i>	<i>None allocated</i>	<i>None allocated</i>
Transport Hazard Class	<i>None allocated</i>	<i>None allocated</i>	<i>None allocated</i>
Packing Group	<i>None allocated</i>	<i>None allocated</i>	<i>None allocated</i>

**Environmental hazards:** The material is alkaline and should not be disposed of to sewer, open drains or waterways

**Hazchem Code:** None Allocated

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## REGULATORY INFORMATION

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**Poison Schedule:** A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

**Inventory Listing(s)** **AUSTRALIA: AICS (Australian Inventory of Chemical Substances).** All components are listed on AICS or are exempt.

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## OTHER INFORMATION

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### Additional Information

This product has a particle size that ranges from 0.01 micron to 15 micron.

### Respirators

In general, the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

### Personal Protective Equipment Guidelines

The recommendation for protective equipment contained within this document is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

## Product Name - MaxSil™

### Abbreviations:

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS #</b>	Chemical Abstract Service Number – used to uniquely identify chemical compounds
<b>CNS</b>	Central Nervous System
<b>EC No.</b>	European Community Number
<b>EMS</b>	Emergency Procedures for Ships Carrying Dangerous Goods
<b>GHS</b>	Globally Harmonised System
<b>GTEPG</b>	Group Text Emergency Procedure Guide
<b>IARC</b>	International Agency for Research on Cancer
<b>LC50</b>	Lethal Concentration, 50% / Median Lethal Concentration
<b>LD50</b>	Lethal Dose, 50% / Median Lethal Dose
<b>mg/m<sup>3</sup></b>	Milligrams per Cubic Metre
<b>OEL</b>	Occupational Exposure Limit
<b>pH</b>	Hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline)
<b>ppm</b>	Parts per million
<b>STEL</b>	Short Term Exposure Limit
<b>STOT-RE</b>	Specific target organ toxicity (repeated exposure)
<b>STOT-SE</b>	Specific target organ toxicity (single exposure)
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines and Poisons
<b>SWA</b>	Safe Work Australia
<b>TLV</b>	Threshold Limit Value
<b>TWA</b>	Time Weighted Average

### Report Status

This document has been compiled by MaxSil Pty Ltd (“MaxSil”) and serves as the Safety Data Sheet (“SDS”) for the MaxSil™ range of products.

The SDS is based on information concerning the product from in house, industry and third-party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained from SF.

While MaxSil Pty Ltd has taken all due care to include accurate and up to date information in this SDS it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, SF accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

### Prepared by:

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