

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

**Product Name:** AGRI-CAL  
**Supplier Name:** OPTIMA AGRICULTURE PTY. LTD.  
**ABN:** 21 099 543 665  
**Address:** 43 Hector Street, Osborne Park WA, 6019  
**Telephone:** (08) 9241 1155  
**Fax:** (08) 9244 2017  
**Emergency:** Poisons Information Centre 131 126  
**Email:** [info@optimaagriculture.com.au](mailto:info@optimaagriculture.com.au)  
**Website:** [www.optimaagriculture.com.au](http://www.optimaagriculture.com.au)

**Synonym(s):** MANUFACTURED SHELLSAND BLEND

**Uses:** Horticulture, turf and broad acre usage to improve nitrogen efficiency, provide soluble and available calcium, improve phosphate availability, strengthens plant cell walls and helps displace sodium and reduce acidity in the plant root zones.

**2. HAZARDS IDENTIFICATION**

This product is classified as hazardous according to Safe Work Australia criteria.  
Not classified as a dangerous good by the criteria of the ADG Code.

**GHS Classifications:**

Skin Corrosion/Irritation: Category 2  
Serious Eye Damage/Irritation: Category 1  
Specific Target Organ Systemic Toxicity (Repeated Exposure) Category 2

**SIGNAL WORD:** WARNING

**Pictogram:**



**Hazard Statements:**

H315 Causes skin irritation  
H318 Causes serious eye damage  
H335 May cause respiratory irritation  
H373 May cause damage to lungs and respiratory tract through prolonged or repeated exposure

**Prevention Statements:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 Wash skin thoroughly after handling  
P271 Use only outdoors or in a well ventilated area  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response Statements:**

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IN INHALED: Remove to fresh air and keep at rest in position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call POISONS INFORMATION CENTRE or doctor/physician.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before re-use.

**Disposal Statements:**

P501	Dispose of contents/container in accordance with relevant regulations.
------	--

<b>UN No.</b>	None Allocated
<b>Hazchem Code</b>	None Allocated
<b>DG Class</b>	None Allocated

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Ingredient</b>	<b>Conc.</b>	<b>CAS No.</b>
Shellsand	60 - 90%	1317-65-3
Lime Bypass Dust	20 - 40%	1317-65-3 / 1305-78-8 / 1305-62-0
Solubilising Agents	5 - 10%	Not Available

**4. FIRST AID MEASURES**

**Description of First Aid Measures:**

<b>Eye Contact:</b>	Flush thoroughly with flowing water for at least 15 minutes and seek medical attention if symptoms persist.
<b>Inhalation:</b>	Remove from dusty area to fresh air. If symptoms persist, seek medical attention.
<b>Skin Contact:</b>	Wash thoroughly with water. A shower may be required.
<b>Ingestion:</b>	Rinse mouth and lips with water. Do not induce vomiting. Give 1-2 glasses of water to drink to dilute stomach contents. If symptoms persist, seek medical attention.
<b>Advice to Doctor:</b>	Treat symptomatically. Contact Poisons Information Centre (13 11 26 Australia wide)
<b>First Aid Facilities:</b>	Eye wash station.

**Additional Information - Aggravated Medical Conditions**

<b>Inhalation</b>	Inhalation of dust through prolonged, repeated exposure can cause membrane irritation, bronchitis, pneumonia, silicosis (scarring of the lung). It may also increase the risk of scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs) and lung cancer.
<b>Skin</b>	Irritating to the skin. Prolonged and repeated skin contact with Agri-Cal can cause irritant dermatitis or alkaline burns.
<b>Eye</b>	Irritating to the eye. If a large volume of Agri-Cal dust is blown into the eye alkaline burns can cause permanent damage.

**5. FIRE FIGHTING**

<b>Flammability</b>	Non-flammable. Does not support combustion of other materials.
<b>Fire and Explosion</b>	Non-flammable. In a fire, limestone (in shellsand) decomposes into calcium oxide and carbon dioxide and may react vigorously with acids, generating carbon dioxide – an asphyxiant.
<b>Extinguishing</b>	Non-flammable.
<b>Hazchem Code</b>	None allocated.

**6. ACCIDENTAL RELEASE MEASURE**

<b>Spillage</b>	Spills do not normally need any special clean up measures.
<b>Emergency Procedures</b>	Follow safety requirements for personal protection under Section 8 Exposure Controls/Personal Protection.

**7. HANDLING AND STORAGE**

<b>Handling:</b>	Use of safe work practices are recommended for this product to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing of hands before eating. Use only outdoors or in a well ventilated area. When spreading dust may be generated.
<b>Storage:</b>	Store bulk supplies of this product in a cool, dry place away from foodstuffs. Where possible, avoid or provide protection from prevailing winds to minimise dust.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Biological Limit Value</b>	No biological limit allocated.
<b>Appropriate Engineering Controls</b>	Use outdoors only, with good general ventilation.
<b>Respiratory Protection</b>	Where inhalation risk exists, keep in well ventilated area.
<b>Eye Protection</b>	Avoid contact. Safety glasses, chemical goggles or full-face shield should be used.
<b>Skin Protection</b>	Avoid skin contact. Wear rubber or PVC gloves in combination with coveralls.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Greyish / white powder (fine to coarse sand)
<b>Odour</b>	Slightly musty odour
<b>Boiling Point</b>	Not Applicable
<b>Freezing/Melting Point</b>	Not Applicable
<b>Volatiles</b>	Not Available
<b>Vapour Pressure</b>	Not Available
<b>Vapour Density</b>	Not Available
<b>Water Solubility</b>	Dispersible
<b>pH</b>	11.5-12.0
<b>Flammability</b>	Non-flammable
<b>Flash Point</b>	Not applicable
<b>Bulk Density</b>	1100 - 1400 kg/m <sup>3</sup>

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions of storage and handling.
<b>Reactivity</b>	Incompatible with oxidising agents and acids.
<b>Decomposition Products</b>	In a fire, limestone (in shellsand) decomposes into calcium oxide and carbon dioxide and may react vigorously with acids, generating carbon dioxide – an asphyxiant.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	No known toxicity data available for this product.
<b>Eye</b>	Irritant upon contact with dust. Over exposure may result in pain, redness, corneal burns and ulceration with possible permanent damage.

<b>Inhalation</b>	Irritant upon contact with dust. May result in coughing and sneezing. Over exposure may result in severe mucous membrane irritation and bronchitis.
<b>Skin</b>	Irritating to the skin. Contact may result in skin rash, dermatitis and possible burns.
<b>Ingestion</b>	This product should not be consumed. Ingestion may result in burns to the mouth and throat, with vomiting and abdominal pain. Due to product form, ingestion is not considered a likely exposure route.
<b>Mutagenicity</b>	Not considered to be a mutagenic hazard.
<b>Carcinogenicity</b>	Not considered to be a carcinogenic hazard.
<b>Reproductive Toxicity</b>	Not considered to be a toxic to reproduction.

## 12. ECOLOGICAL INFORMATION

<b>Eco toxicity</b>	This product is not anticipated to cause adverse effects to animals or plant life if released to the environment in controlled quantities.
<b>Persistence and Degradability</b>	Not available.
<b>Mobility</b>	Not available.
<b>Bio accumulative Potential</b>	Not available.
<b>Environmental Protection</b>	Not harmful to the environment.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal</b>	Reuse or recycle where possible.
<b>Legislation</b>	Dispose in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION

Not classified as a dangerous good by the criteria of the ADG Code.

Transport is by road in bulk form.

Drivers of trucks transporting bulk product should ensure load is tarped down to prevent dust.

<b>U.N. Number</b>	None allocated.
<b>U.N. Proper Shipping Name</b>	None allocated.
<b>Transport Hazard Class</b>	None allocated.

**IMDG Marine Pollutant**      No

**15. REGULATORY INFORMATION**

**Regulatory Information**      This product is classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

**Poisons Schedule**      This product is NOT classified as a Schedule Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**AICS**      All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

**16. OTHER INFORMATION**

**Date of preparation of SDS**      February 2019.

**References**      Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice. Standard for the Uniform Scheduling of Medicines and Poisons. Australia Code for the Transport of Dangerous Goods by Road and Rail. Workplaces exposure standards for airborne contaminants, Safe Work Australia. Globally Harmonised Systems of classification and labelling of chemicals.

**Note**      The information contained in this bulletin is based on data considered to be reliable and has been prepared in good faith, however Optima Agriculture does not provide any warranty as to its accuracy or completeness.

As far as lawfully possible, Optima Agriculture 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 the reliance on the information contained in this SDS.

---

**END OF REPORT**

---