



# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 13.12.2016

Revision: 13.12.2016

## 1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** GUANO SULPHUR GOLD**Other Means of Identification:** Mixture**Product Code:**

GuaSulGo-Bulk, GuaSulGo-1.25Mt Bulka Bags, GuSulGo-1Mt Bulka Bags, GuaSulGo-25Kg bags

**Recommended Use of the Chemical and Restriction on Use:**

Fertiliser for agricultural and horticultural applications and for stock feed manufacturing.

**Details of Manufacturer or Importer:**

Guano Australia Pty Ltd

4 Schwartz Street

Buderim QLD 4556

**Phone Number:** 07 5445 5300**Emergency telephone number:** 07 5445 5300

## 2. HAZARDS IDENTIFICATION

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



flame

Water-react. 2 H261 In contact with water releases flammable gases.

**Signal Word** Danger**Hazard Statements**

H261 In contact with water releases flammable gases.

**Precautionary Statements**

P223 Do not allow contact with water.

P231+P232 Handle under inert gas. Protect from moisture.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, sand, extinguishing powder.



P335+P334 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.

P402+P404 Store in a dry place. Store in a closed container.

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

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

7440-70-2	Calcium  Water-react. 2, H261	34.79%
7631-86-9	Silica	17.12%
7720-78-7	Iron sulphate  Acute Toxicity (Oral) 4, H302; Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2, H319	13%

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7704-34-9	Sulphur ⚠ Skin Corrosion/Irritation 2, H315	12.7%
7723-14-0	Red phosphorus ⚠ Flammable Liquids 2, H225; Flammable Solids 1, H228; Aquatic Chronic 3, H412	11.17%
7440-44-0	Activated carbon ⚠ Self-heat. 1, H251	2.56%
7429-90-5	Aluminium foil	1.46%
7439-95-4	Magnesium ⚠ Flammable Solids 2, H228; Pyrophoric Liquids 1, H250; Pyrophoric Solids 1, H250; Water-react. 2, H261	0.89%
7440-23-5	Sodium ⚠ Water-react. 1, H260; ⚠ Skin Corrosion/Irritation 1A, H314	0.41%
7440-09-7	Potassium ⚠ Water-react. 1, H260; ⚠ Skin Corrosion/Irritation 1A, H314	0.25%
7727-37-9	Nitrogen ⚠ Gases Under Pressure (Refrigerated liquefied gas), H281	0.11%

## 4. FIRST AID MEASURES

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

**Ingestion:**

If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.

**Symptoms Caused by Exposure:**

Inhalation: May cause respiratory irritation and cough.

Skin Contact: May cause mild skin irritation.

Eye Contact: May cause mild eye irritation.

Ingestion: Large quantities may cause nausea and abdominal pain.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use fire extinguishing methods suitable to surrounding conditions.

**Specific Hazards Arising from the Chemical:**

Product is not combustible, however in contact with water releases flammable gases. Explosive when mixed with oxidising substances.

Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

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### 6 . ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and sweep granules into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation. Wash away uncontaminated residue with water.

### 7 . HANDLING AND STORAGE

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Keep away from water and oxidising agents. In contact with water releases flammable gases. Explosive when mixed with oxidising substances.

### 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards:**
**7631-86-9 Silica**

WES	TWA: 2 mg/m <sup>3</sup>
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**7720-78-7 Iron sulphate**

WES	TWA: 1 mg/m <sup>3</sup> as Fe
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**7723-14-0 Red phosphorus**

WES	TWA: 0.1 mg/m <sup>3</sup>
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**7429-90-5 Aluminium foil**

WES	TWA: 10* 5** mg/m <sup>3</sup> *metal dust;**welding, pyro powders
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**7727-37-9 Nitrogen**

WES	Asphyxiant
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**Engineering Controls:**

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

**Respiratory Protection:**

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

General purpose gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards

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the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 . PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

<b>Form:</b>	Granulate
<b>Colour:</b>	Dark brown
<b>Odour:</b>	Odourless
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	7.6
<b>Melting point/Melting range:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	In contact with water releases flammable gases. Explosive when mixed with oxidising substances.
<b>Auto-ignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure:</b>	Not applicable
<b>Relative Density:</b>	No information available
<b>Vapour Density:</b>	Not applicable.
<b>Evaporation Rate:</b>	Not applicable
<b>Solubility in Water:</b>	Soluble
<b>Partition Coefficient (n-octanol/water):</b>	No information available

### 10 . STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:**

Hazardous polymerisation will not occur.  
In contact with water releases flammable gases.  
Explosive when mixed with oxidising substances.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** Moisture

**Incompatible Materials:** Water and oxidising agents.

**Hazardous Decomposition Products:** No further relevant information available.

### 11 . TOXICOLOGICAL INFORMATION

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****7631-86-9 Silica**

Oral	LD <sub>50</sub>	15 mg/kg (rat) (Intravenous)
		50 mg/kg (rat) (Intraperitoneal)
	LD <sub>50</sub>	10000 mg/kg (rat)

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<b>7704-34-9 Sulphur</b>		
Oral	LD <sub>50</sub>	>5000 mg/kg (rat)
Inhalation	LC <sub>50</sub> /4 h	>9200 mg/kg (rat)
<b>7440-23-5 Sodium</b>		
	LD <sub>50</sub>	4000 mg/kg (mouse) (Intraperitoneal)
<b>7440-09-7 Potassium</b>		
	LD <sub>50</sub>	700 mg/kg (mouse) (Intraperitoneal)
<b>7440-44-0 Activated carbon</b>		
	LD <sub>50</sub>	440 mg/kg (mouse) (Intravenous)
<b>7720-78-7 Iron sulphate</b>		
Oral	LD <sub>50</sub>	319 mg/kg (rat)

**Acute Health Effects****Inhalation:** May cause respiratory irritation and cough.**Skin:** May cause mild skin irritation.**Eye:** May cause mild eye irritation.**Ingestion:** Large quantities may cause nausea and abdominal pain.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:**

Silica, amorphous is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No information available**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:** No information available

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No further relevant information available.**Aquatic toxicity:** No further relevant information available.**Persistence and Degradability:** No further relevant information available.**Bioaccumulative Potential:** No further relevant information available.**Mobility in Soil:** No further relevant information available.**Other adverse effects:** No further relevant information available.

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## 13 . DISPOSAL CONSIDERATIONS

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.

**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 . TRANSPORT INFORMATION

**UN Number** Not regulated

**Proper Shipping Name** Not regulated

**Dangerous Goods Class** Not regulated

**Packing Group:** Not regulated

## 15 . REGULATORY INFORMATION

**Australian Inventory of Chemical Substances:**

7440-70-2	Calcium
7631-86-9	Silica
7720-78-7	Iron sulphate
7704-34-9	Sulphur
7723-14-0	Red phosphorus
7440-44-0	Activated carbon
7439-95-4	Magnesium
7440-23-5	Sodium
7440-09-7	Potassium
7727-37-9	Nitrogen
7429-90-5	Aluminium foil

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Not Scheduled.

## 16 . OTHER INFORMATION

**Date of Preparation or Last Revision:** 13.12.2016

**Prepared by:** MSDS.COM.AU Pty Ltd

[www.msds.com.au](http://www.msds.com.au)

**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC<sub>50</sub>: Lethal concentration, 50 percent

LD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Gases Under Pressure (Refrigerated liquefied gas): Gases under pressure – Refrigerated liquefied gas

Flammable Liquids 2: Flammable liquids – Category 2

Flammable Solids 1: Flammable solids – Category 1

Flammable Solids 2: Flammable solids – Category 2

Pyrophoric Liquids 1: Pyrophoric liquids, Hazard Category 1

Pyrophoric Solids 1: Pyrophoric solids, Hazard Category 1

Self-heat. 1: Self-heating substances and mixtures, Hazard Category 1

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Water-react. 1: Substances and mixtures, which in contact with water, emit flammable gases. Hazard Category 1

Water-react. 2: Substances and mixtures, which in contact with water, emit flammable gases. Hazard Category 2

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 2: Serious eye damage/eye irritation – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term (Chronic). Category 3

### Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011”

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