



# MATERIAL SAFETY DATA SHEET

## LIQUID FERTILIZER

### GUANO 1L

#### SECTION 1: PRODUCT IDENTIFICATION AND COMPANY DETAILS

- 1.1. **Product commercial name** ..... LIQUID FERTILIZER GUANO 1L  
Commercial name..... FERTILIZANTE LÍQUIDO GUANO 1L
- 1.2. **Product Use** ..... Fertilizer
- 1.3. **Company details** ..... **PRODUCTOS FLOWER, S.A.**  
Pol. Ind. La Canaleta s/n  
25300 Tàrraga  
Tel. 973 500 188  
laboratorio@productosflower.com
- 1.4. **Emergency Telephone** ..... (+34) 915620420 (24 h; for emergencies only)

#### SECTION 2: DANGER IDENTIFICATION

- 2.1. **Classification of the substance or mixture** ..... See section 16 for the full text of the H phrases and the hazard statements  
CLP product classification ..... Not dangerous.  
according to Reg. 1272/2008 modified
- 2.2. **Labelling elements**  
*According to EU regulation Reg. 1272/2008 modified*  
Not dangerous.
- 2.3. **Others dangers** ..... None of the ingredients meets the criteria of being a PBT or PmB

#### **Other hazards that do not involve product classification:**

**Physical and chemical hazards:** The product is not combustible.



**Human Health effects: Skin contact:** long skin contact period may cause some skin irritations.

**Eyes contact:** when the products gets into contact with eyes, it may cause important ocular irritation, even becoming grave irritations.

**Ingestion:** ingestion of small quantities should not cause toxic effects, however when the ingestion of the product is important or big it may cause important gastrointestinal problems as well as irritation or burning into the digestive organs.

**Inhalation:** in normal conditions gas and steam releases are improbable.

**Unfavorable effects for environment:** big splits of this product might an unfavorable effects for environment and superficial blocked up water due to contact on nitrogen and phosphorous. Also due to its pH it may also effect to aquatic fauna.

### SECTION 3: COMPOSITION/INFORMATION ABOUT COMPONENTS

- 3.1. **Substances** ..... The product is a mixture, not a substance.
- 3.2. **Mixtures** ..... See section 16 for the full text of the H phrases and the hazard statements.

### SECTION 4: FIRST AID

#### 4.1. General measures:

**Inhalation:** In normal conditions this product does not cause any steam and gases. However, always better assist to intoxicated people with fresh air (move always to outdoors).

**Ingestion:** Do not promote the vomit. Drink milk and water (in case the person is unconscious). Go for medical attention.

**Skin contact:** clean affected area with abundant water and soap (no rubbing).

**Eyes contact:** clean it with abundant water during 15 minutes. Do not forget to take contact lens off. Go for medical attention.

#### 4.2. Main symptoms and effects, both acute and delayed.

#### 4.3. Indication of all medical care and special treatments to be given immediately.

Syntomatic treatment.



**SECTION 7: HANDLING AND STORAGE****7.1. Conditions for safe storage,  
including any incompatibilities**

Store in compliance with national and local regulations.

Place away from sources of heat or fire.

Keep away from combustible materials and substances mentioned.

Ensure the high level of cleanliness in the storage area.

Smoking and the use of bare lights in storage areas are not allowed.

Any building used for storage must be dry and well ventilated.



## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. **Exposure limits** No data.

### 8.2. **Exposure controls**

Engineering measures and hygienic controls: have abundant fresh running water for washing in case of contact with skin and eyes. Have ventilation where necessary. Do not eat, drink or smoke during handling. Wash your hands after handling the product and before eating, drinking or smoking. Use the sink at the end of the workday.

Individual Protection: Eyes: protection glasses.

Skin and body: use of proper working security clothes and staff.

Hands: rubber gloves.

Control of exposure to the environment: Use proper practices for proper handling.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. **Information on physical and chemical properties**

Appareance .....	Liquid
Odour .....	Characteristic
pH .....	6 (1%)
Colour.....	Brown
Density .....	1.12 g/ml
Solubility.....	Water soluble
Boiling point.....	100°C
Conductivity.....	50 mS/cm

9.2. **Additional information:** No data.

**SECTION 10: STABILITY AND REACTIVITY**

- |       |  |  |
|-------|--|--|
| 10.1. | <b>Reactivity</b>                        | Stable under normal conditions (see sec. 7)  |
| 10.2. | <b>Chemical Stability</b>                | Stable under normal conditions (see sec. 7)  |
| 10.3. | <b>Possibility of dangerous reaction</b> | No data.   |
| 10.4. | <b>Conditions to avoid</b>               | Avoid heat and fire as well as overheating.  |
| 10.5. | <b>Incompatible materials</b>            | Combustible material, reducing agents, acids, alkali, sodic carbonate, chlorine and some other materials like cooper, iron, lead, zinc and its allows. |
| 10.6. | <b>Hazardous Decomposition Products</b>  | Thermic decomposition caused by fire may cause some emanations or toxic smokes.  |



## SECTION 11: TOXICOLOGICAL INFORMATION

- |  |  |
|--|--|
| 11.1. <b>Inhalation Exposure</b>   | Not probable, breathing irritation.                              |
| 11.2. <b>Skin contact</b><br>could cause some serious burns.                               | Irritation (skin red color). In case of a long skin contact then |
| 11.3. <b>Eyes contact</b><br>More serious splashes may causes burnings and ocular injures. | Mild splashes may cause some reddening and eyes irritation.      |
| 11.4. <b>Ingestion</b>   | Mouth and breathing itch sensation. Digestive problems.          |

Acute toxicity: No known significant effects.

Sensitization: no significant effects known.

Chronic toxicity: no significant effects known.

Carcinogenicity: no significant effects known.

Mutagenicity: no significant effects known.

Reproductive toxicity: no known significant effects.

## SECTION 12: ECOLOGICAL INFORMATION

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|--|--|
| 12.1. <b>Toxicity</b>                      | big spill in stagnant water may cause some environmental water damages (unusual aquatic flora developments).   |
| 12.2. <b>Persistency and degradability</b> | being a fertilizer product it can be degraded on the soil due to its plant absorption and also microorganisms which are grown in there. Nitrogen get into nitrification process into the soil. Phosphorous gets incorporated into organic matter when in contact with soil. Potassium is absorbed by the clay. |
| 12.3. <b>Mobility</b>                      | water soluble. Low volatile.   |
| 12.4. <b>Bio-accumulation potential</b>    | the product does not present any bio-accumulation phenomenon.  |



### SECTION 13: RELATIVE TO ITS ELIMINATION

**Product elimination (excess and residue):** considering that this is a fertilizer, all product excess can be re-used as a cultivate fertilizer. If not, they must be eliminated in proper industrial installations.

**Elimination of empty or contaminated containers:** empty and contaminated containers can be re-used after a proper cleaning.

### SECTION 14: TRANSPORT INFORMATION

#### *Classification ADR/RID/IMDG/IATA/ICAO*

- |       |   |                 |
|-------|---|-----------------|
| 14.1. | <b>ONU number</b>                                       | Not classified. |
| 14.2. | <b>United Nations official designation of transport</b> | Not classified. |
| 14.3. | <b>Packing group</b>                                    | Not classified. |
| 14.4. | <b>Hazard class (s) for transport</b>                   | Not classified. |
| 14.5. | <b>Environmental hazards</b>                            | Not classified. |

### SECTION 15: REGULATORY INFORMATION

**RD 255/2003** – Classification regulation, packaging and labeling of dangerous mixes.

**RD 363/1995** – Classification regulation, packaging and labelling of dangerous substances.

**Regulation (CE) n° 1272/2008** about classification, labelling and packaging of substances mixes.

### SECTION 16: OTHER INFORMATION

Phrase H and P recommended for this product.

#### **Caution phrase:**

**P102:** keep away from children.

**P103:** read the label before product use.

Information provided in this safety data sheet is offered in good faith being as correct as possible according to our knowledge on the date of publication. It does not imply the acceptance of any commitment or legal responsibility for the results of its abuse under any circumstances. The information provided is intended only as a guide for safety in handling, use, processing storage, transportation, disposal and it should not be considered as a quality specification.