

## LAUNCHER GRANULAR SOYBEAN

SAFETY DATA SHEET Revision date: August, 2021

## SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

#### 1.1 Product identifier

Product name: LAUNCHER GRANULAR SOYBEAN

Product Identifier:

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Peat-based inoculant product containing nitrogen-fixing Bradyrhizobium bacteria.

#### 1.3 Details of the supplier of the Safety Data Sheet

#### **RIZOBACTER ARGENTINA S.A.**

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#### 1.4 Emergency telephone number

Emergency phone (24 hours) CIQUIME 0800 222 2933 (Argentina only)

+54 11 4552 8747 (other countries)

## **SECTION 2 – HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

## Classification according to the Globally Harmonized System

This product does not meet the criteria for classification in any hazard class according to Globally Harmonized System of Classification and Labelling of Chemicals.

#### 2.2 Label elements

Pictogram: NO SYMBOL

Signal word: NO SIGNAL WORD

## **Hazard statements:**

No hazard statement.

### **Precautionary statements:**

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves.

P501 - Dispose of contents and/or container in accordance with national and international regulations.

### 2.3 Other hazards

There are no other additional hazards of consideration in the classification.

## **SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

#### 3.1 Substance

Does not apply.

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#### 3.2 Mixtures

IDENTIFICATION NAME	CAS No.	Content
Bradyhizobium japonicum	-	1x10 <sup>8</sup> viable CFU/g

## **SECTION 4 - FIRST AID MEASURES**

#### 4.1 Description of first aid measures

General advice: Avoid exposure to the product, taking appropriate protective measures. Get

medical advice.

Inhalation: For those providing assistance, avoid exposure. Use proper protection if

necessary. Move victim and get fresh air. Keep calm. If not breathing, give

artificial respiration. Get medical advice.

Skin contact: Wash immediately after contact with soap and water for at least 15

minutes. Remove contaminated clothing and wash before reuse.

Eye contact: Immediately flush with water for at least 15 minutes, holding eyelids apart

to ensure that all eye and lid tissues rinsed. Washing eyes within several seconds is essential to achieve maximum effectiveness. If you have contact lenses, remove them after the first 5 minutes, then continue rinsing eye.

Get medical advice.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth with water. Never give anything

by mouth to an unconscious person. Get medical advice.

If vomiting occurs spontaneously, place victim on side to reduce the risk of

aspiration.

### 4.2 Most important symptoms and effects, both acute and delayed

Inhalation: possible respiratory damage after repeated or prolonged inhalation.

Contact with the skin: it is not considered a dangerous product. However, prolonged contact can cause irritation.

Eye contact: may cause eye irritation

Ingestion: Small amounts are unlikely to be ingested as a result of industrial handling.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Medical advice: Provide symptomatic treatment. For more information, contact a Poison Control Center.

# **SECTION 5 – FIREFIGHTING MEASURES**

## 5.1 Extinguishing media

Use dry chemical, foam, sand or water spray. Use the product according to surrounding materials. DO NOT USE water jets. For class A fires, the use of carbon dioxide is not recommended because of its low heat removal.

### 5.2 Special hazards arising from the substance or mixture

The product and its packaging can burn but do not ignite easily.

#### 5.3 Advice for firefighters

### **5.3.1** Firefighting instructions

Spray the packaging with water to avoid ignition or to keep them cool if exposed to excessive heat or fire. Remove the packages if they have not yet been reached by the flames, and you can do so without risk.

Cool containers with water until the fire is extinguished, removing the remains until the embers are cold. Contain fire water for later disposal. Do not disperse the material.

### 5.3.2 Protective clothing

Use self-contained breathing apparatus. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations.

For large spills wear protective clothing against chemicals, which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

#### 5.3.3 Hazardous combustion products

In case of fire may release irritating and/or toxic fumes and gases, such as carbon monoxide and other substances derived from incomplete combustion.

## **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

### 6.1 Personal precautions, protective equipment and emergency procedures

### 6.1.1 For non-emergency personnel

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Evacuate personnel to a ventilated area.

#### 6.1.2 For emergency responders

Eliminate all ignition sources (no smoking, do not use flares, sparks or flames in immediate area). Evacuate personnel to a ventilated area. Ventilate immediately, especially where product may accumulate. Do not allow reuse of spilled product.

#### 6.2 Environmental precautions

Contain the product and avoid its dispersion to the environment.

Prevent the product from reaching water courses.

## 6.3 Methods and material for containment and cleaning up

Collect the product with shovel and place it in an appropriate container. Clean the affected area completely.

#### 6.4 Reference to other sections

See Section 8 - Exposure Controls and Personal Protection, and Section 13 - Disposal considerations.

# **SECTION 7 – HANDLING AND STORAGE**

## 7.1 Precautions for safe handling

Do not eat, drink or smoke during handling. Avoid contact with eyes, skin and clothing. Wash after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a clean, dry, well-ventilated area. Protect from sunlight. Keep

containers/packages closed. Store and transport at a temperature between 4 °C and 25 °C, and a relative humidity between 40% and 80%. Do not exceed 36 °C atherwise there will be a degrees in besterial visibility.

exceed 26 °C, otherwise there will be a decrease in bacterial viability.

Packaging materials: Supplied by the manufacturer.

Incompatibilities: Keep away from Strong oxidizing agents, acids and bases.

#### 7.3 Specific end use(s)

Peat-based inoculant product containing nitrogen-fixing *Rhizobium* bacteria.

## **SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

### 8.1 Control parameters

TLV-TWA (ACGIH): N/D
TLV-STEL (ACGIH): N/D
PEL (OSHA): N/D
IDLH (NIOSH): N/D
PNEC (WATER): N/D
PNEC (SEA WATER): N/D
PNEC-STP: N/D

#### 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Keep workplace ventilated. The normal routine ventilation is usually adequate. Local hoods should be used for operations that produce or release large amounts of product. In low or confined areas should be provided mechanical ventilation. Provide showers and eyewash stations.

## 8.2.2. Individual protection measures, such as personal protective equipment

Eye and face protection: When necessary, wear chemical splash-proof safety glasses (complying with

EN 166).

Skin protection: When necessary, wear impermeable protective natural rubber gloves

(complying with standards EN 374), clothes and safety footwear resistant to

chemicals.

Respiratory protection: When necessary, wear an appropriate respirator. Special attention to oxygen

levels in the air should be paid.

If large releases occur, wear self-contained breathing apparatus (SCBA).

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1. Information on basic physical and chemical properties

Appearance: Granules.

Color: Dark brown.

Odour: Normal.

Odour threshold: N/D

pH: 6,0 - 7,5

Melting point: N/D

Boiling point: N/D

Flammability: The product is not flammable.

N/D

Flash point: Not flammable.

Evaporation rate: N/D

Auto-ignition temperature: N/D

Explosive limits: N/D

Decomposition temperature: N/D

Vapour pressure (20°C): N/D

Vapour density (air=1):

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Relative density (20°C): 0,5 - 0,6 g/cm<sup>3</sup>

Solubility (20°C): Insoluble in water.

Henry constant (20°C): N/D
Partition coefficient (logKo/w): N/D
Viscosity (40°C): N/D

Explosive properties: Not explosive. According to column 2 of Annex VII of REACH, this study is

not required because in the molecule no chemical groups are associated

with explosive properties.

Oxidizing properties: According to column 2 of Annex XVII of REACH, this study is not necessary

because the substances present in the product, due to their chemical structures, are incapable of reacting exothermically with combustible

materials.

#### 9.2 Other information

Other properties: None.

## **SECTION 10 – STABILITY AND REACTIVITY**

#### 10.1. Reactivity

It is not expected that product reactions or decomposition may occur under normal storage conditions. It does not contain organic peroxides. It is not corrosive to metals. Does not react with water.

### 10.2. Chemical stability

The product is chemically stable and does not require stabilizers.

#### 10.3. Possibility of hazardous reactions

No hazardous polymerization is expected.

#### 10.4. Conditions to avoid

Do not freeze the product. Avoid temperatures above 25 °C.

## 10.5. Incompatible materials

Strong oxidizing agents, acids and bases.

## 10.6. Hazardous decomposition products

The material does not decompose at room temperature. In case of fire, see Section 5.

## **SECTION 11 – TOXICOLOGICAL INFORMATION**

### 11.1 Information on toxicological effects

Acute toxicity:

The product does not present an acute hazard based on known or supplied information.

Skin irr. (rabbit, estim.): not irritant Eye irr. (rabbit, estim.): not irritant

Skin sens (Guinea pig, estim.): not sensitising Resp. sens (Guinea pig, estim.): not sensitizing

## Carcinogenicity, mutagenicity and reproductive toxicity:

Carcinogenicity: Contains no components in concentrations greater than or equal to 0.1% that are classified as carcinogens by the International Agency for Research on Carcinogens.

Mutagenicity: No specific or relevant data available for evaluation.

Tox. Repr .: No specific or relevant data available for evaluation.

Teratogenicity: No specific or relevant data available for evaluation.

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**Routes of exposure:** Inhalation, skin and eye contact.

Inhalation: possible respiratory damage after repeated or prolonged inhalation.

Contact with the skin: it is not considered a dangerous product. However, prolonged contact can cause

irritation.

Eye contact: may cause eye irritation

Ingestion: Small amounts are unlikely to be ingested as a result of industrial handling.

STOT-SE: No specific or relevant data available for evaluation. STOT-RE: No specific or relevant data available for evaluation.

Aspiration: The GHS aspiration hazard criteria is not applicable because the product is a solid.

## **SECTION 12 – ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

The product does not present an acute hazard based on known or supplied information.

### 12.2. Persistence and degradability

BIODEGRADABILITY (-): No test data available.

### 12.3. Bioaccumulative potential

Log Ko/w (OCDE 107 o 117): N/D

BIOCONCENTRATION FACTOR - BCF (OCDE 305): N/D

### 12.4. Mobility in soil

HENRY CONSTANT (20°C): N/D

LogKoc: N/D

DISTRIBUTION (%): Rhizobium bacteria have low mobility in soils, so they do not move far from their site of

incorporation.

#### 12.5. Results of PBT and vPvB assessment

This product does not meet the PBT criteria of Annex XIII of REACH. This product does not meet the vPvB criteria in Annex XIII of REACH.

#### 12.6. Other adverse effects

AOX and metal containing: Does not contain organic halogens nor metals.

# **SECTION 13 – DISPOSAL CONSIDERATIONS**

Dispose of excess product and empty containers according to current legislation for the protection of the environment and hazardous waste. Disposal procedure: sewage treatment plant.

# **SECTION 14 – TRANSPORT INFORMATION**

### 14.1 Transport by land

Proper Shipping Name:

UN/ID Number:

NOT CLASSIFIED AS A DANGEROUS GOODS

Hazard identification number:

NOT CLASSIFIED AS A DANGEROUS GOODS

NOT CLASSIFIED AS A DANGEROUS GOODS

Excepted and limited quantity:

NOT CLASSIFIED AS A DANGEROUS GOODS

#### 14.2 Air transport (ICAO/IATA)

Proper Shipping Name: NOT CLASSIFIED AS A DANGEROUS GOODS UN/ID Number: NOT CLASSIFIED AS A DANGEROUS GOODS Hazard class: NOT CLASSIFIED AS A DANGEROUS GOODS

NOT CLASSIFIED AS A DANGEROUS GOODS Packing group: PAX and Cargo Packing instructions: NOT CLASSIFIED AS A DANGEROUS GOODS Cargo Packing instructions: NOT CLASSIFIED AS A DANGEROUS GOODS ERC: NOT CLASSIFIED AS A DANGEROUS GOODS

#### 14.3 Sea transport (IMO)

#### **IMDG Code**

Proper Shipping Name: NOT CLASSIFIED AS A DANGEROUS GOODS UN/ID N°: NOT CLASSIFIED AS A DANGEROUS GOODS Hazard class: NOT CLASSIFIED AS A DANGEROUS GOODS NOT CLASSIFIED AS A DANGEROUS GOODS Packing group: EMS: NOT CLASSIFIED AS A DANGEROUS GOODS Stowage and manipulation: NOT CLASSIFIED AS A DANGEROUS GOODS NOT CLASSIFIED AS A DANGEROUS GOODS Segregation:

Marine pollutant: NO

Proper Shipping Name: NOT CLASSIFIED AS A DANGEROUS GOODS

### **SECTION 15 – REGULATORY INFORMATION**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Not dangerous for the ozone layer. Volatile organic compounds (VOC's): N/D

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## **SECTION 16 – OTHER INFORMATION**

### 16.1 Abbreviations and acronyms

ACGIH: American Conference of Governmental N/D: no information available at the time of the SDS.

Industrial Hygienists.

**BCF**: Bioconcentration Factor NIOSH: National Institute for Occupational Safety

CAS: Chemical Summary Service and Health

EC50: Average Effective Concentration. OECD: Organization for Economic Cooperation

LC50: Average Lethal Concentration. and Development

LD50: Mean lethal dose. PEL: Permisible Exposure Limit.

ATE: acute toxicity estimation. PNEC: Predicted no-effect concentration

IARC: International Agency for Research on Can-REL: Recommended Exposure Limit.

GHS: Globally Harmonized System of Classificacer

IDLH: Concentration immediately dangerous to tion and Labeling of Chemicals.

life or health STEL: Short Term Exposure Limit

INSHT: National Institute for Occupational Safety TLV: Threshold Limit Value

and Health. TWA: Time Weighted Average.

N/A: the property is not applicable due to the physical chemical and toxicological characteristics

of the product.

## 16.2 Key literature references and sources for data

Globally Harmonized System of Classification and Labelling of Chemicals, fifth revised edition, 2013 (GHS 2013 - 'ST / SG / AC 10/30 / Rev.5'). The fifth edition is taken into consideration because it is the one valid for Argentina according to Resolution 801/2015 of the SRT. In any case, the information is contrasted with Revision 7 ('ST / SG / AC 10/30 / Rev.7') and clarification is made if required.

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Agreement on Transport of Dangerous Products within the MERCOSUR, MERCOSUR\CMC\DEC N° 2/94. European Agreement on the International Carriage of Dangerous Goods by Road (ADR 2019) and amendments.

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID 2019) and amendments. International Maritime Dangerous Goods Code (IMDG 2018 - Amendment 39-18), International Maritime Organization (IMO).

IBC Code 2016, IMO, IMO Resolution MSC.369 (93).

Regulations of the International Air Transport Association (IATA 60 ed., 2019) on the transport of dangerous goods by air.

### 16.3 Classification and procedure used to derive the classification for mixtures

The classification has been made based on information from the product manufacturer. Control of changes: v.1 - Adaptation to the format.

## 16.4 Disclaimer

This information only concerns the above-mentioned product and is not to be valid for other (s) product (s) or in any process. This safety data sheet provides health and safety information. The information is to our best knowledge, correct and complete. It is given in good faith but without warranty. The product should be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other use, exposure should be evaluated so that they can implement appropriate handling practices and training programs to ensure safe operations in the workplace.

It remains the user's own responsibility that this information is appropriate and complete for the special use of this product.

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