

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY**1.1 Product identifier**

Product name: RIZOSPRAY INTEGRUM

Product Identifier:

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

Relevant identified uses: Coadjuvant.

1.3 Details of the supplier of the Safety Data Sheet**RIZOBACTER ARGENTINA S.A.**

Avda. Presidente. Dr. Arturo Frondizi Nº 1150 Parque Industrial, (2700) Pergamino Buenos Aires, Argentina.

P: +54 2477 40 9428

1.4 Emergency telephone number

Emergency phone (24 hours)	CIQUIME 0800 222 2933 (Argentina only) +54 11 4611 2007 (other countries)
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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. However a safety data sheet is being supplied for it on request.

2.2 Label elements**Pictogram:** NO SYMBOL**Signal word:** NO SIGNAL WORD**Hazard statements:**

None.

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 / container in accordance with national / international regulations.

2.3 Other hazards**WHO CATEGORY IV - Product normally not dangerous.****SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS****3.1 Substance**

Does not apply.

Version: 1**Replaces:****Created:** CIQUIME**Emission date:** may, 2018**Revised:** RIZOBACTER ARGENTINA S.A.

3.2 Mixtures

IDENTIFICATION NAME	CAS No.	%w/v	CLASSIFICATION
Fatty acids, vegetable-oil, methyl esters	67784-80-9	48	Not Classified

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:	Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. 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. DO NOT use kerosene, gasoline or organic solvents to remove the product. Use a paper embed in kitchen oil. Remove contaminated clothing. Launder contaminated clothing before reuse. For minor thermal burns: Cool the burn. Hold the burned area under cold running water for at least five minutes, or until the pain subsides. However, body hypothermia must be avoided. Do not use ice. Do not remove clothing stuck to the skin, cut around the area.
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: may cause irritation in case of inhalation and mists.

Skin contact: may cause mild irritation.

Eye contact: may cause mild irritation.

Ingestion: may cause nausea, vomiting and stomach-ache.

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 CO₂. Use the product according to surrounding materials. DO NOT USE straight streams.

5.2 Special hazards arising from the substance or mixture

NOT FLAMMABLE. The liquid will not readily ignite. After evaporation of the product, the residue can burn.

5.3 Advice for firefighters

5.3.1 Firefighting instructions

Spray-water the packaging to avoid ignition if exposed to excessive heat or fire. Withdraw packaging if not reached by the flames and can be done without risk.

Spray containers with water to keep them cool. Cool containers with flooding quantities of water until well after the fire is out. Fight fire from maximum distance or use unmanned hose holders or monitor.

Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

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 fumes and gases and/or toxic 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, flares, sparks or flames in immediate area). Evacuate personnel to a ventilated area. Ventilate immediately, especially in low areas where vapours may accumulate. Do not allow reuse of spilled product.

6.2 Environmental precautions

Contain spilled liquid with a dam. Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Collect the product through sand, vermiculite, or inert absorbent and completely clean or wash the contaminated area.

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 arms, hands, and nails after handling. The use of gloves is recommended.

Facilitate access to safety showers and eyewash emergency.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:	Store in a clean, dry, well-ventilated area. Keep containers closed. Store in the original container with label visible. Keep out of the reach of children and untrained people. Do not store with food and fodder.
Packaging materials:	Supplied by the manufacturer.
Incompatibilities:	Keep away from strong oxidizing agents.

7.3 Specific end use(s)

Coadjuvant.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

TLV-TWA (ACGIH):	N/D
TLV-STEL (ACGIH):	N/D
PEL (OSHA 29 CFR 1910.1000):	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:	Should wear safety glasses, chemical splash-proof (complying with EN 166).
Skin protection:	When handling this product should wear impermeable protective PVC, nitrile or butyl gloves (complying with standards EN 374), clothes and safety footwear resistant to chemicals.
Respiratory protection:	Where necessary, use an organic vapours (A) 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:	Emulsionable concentrated liquid.
Color:	Light orange (Pantone 136C)
Odour:	Characteristic.
Odour threshold:	N/D
pH:	N/D

Melting point:	N/D
Boiling point:	N/D
Flammability:	The product is not flammable.
Flash point:	> 135°C (275°F)
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):	N/D
Relative density (20°C):	0,941 g/cm ³
Solubility (20°C):	Emulsifiable 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

Avoid high temperatures.

10.5. Incompatible materials

strong oxidizing agents.

10.6. Hazardous decomposition products

When heated, it may release toxic and irritating vapors. In case of fire, see section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	LD50 oral (rat, method not indicated): > 5000 mg/kg LD50 der (rabbit, method not indicated): > 5000 mg/kg LC50 inh. (rat, 4hs., method not indicated): 1,26 mg/l
Skin corrosion / irritation:	Skin irr. (rabbit, estim.): not irritant
Serious eye damage / irritation:	Eye irr. (rabbit, estim.): not irritant
Respiratory or skin sensitization:	Skin sens (Guinea pig, estim.): not sensitising Resp. sens (Guinea pig, estim.): not sensitizing
Carcinogenicity, mutagenicity and reproductive toxicity:	Carcinogenicity: No information is available on any component of this product, present at levels greater than or equal to 0.1%, that is classified as probable, possible or confirmed human carcinogen by IARC (International Agency for Research on Cancer). Mutagenicity: There are no components of this product, present at a concentration greater than or equal to 0.1%, that classify as mutagens according to the GHS. Tox. Repr. ∴ There are no components of this product, present at a concentration greater than or equal to 0.1%, that classify as hazardous for reproduction according to the GHS. Teratogenicity: There are no components of this product, present at a concentration greater than or equal to 0.1%, that classify as a teratogen.
Routes of exposure:	Inhalation, skin and eye contact.
Inhalation:	may cause irritation in case of inhalation and mists.
Skin contact:	may cause mild irritation.
Eye contact:	may cause mild irritation.
Ingestion:	may cause nausea, vomiting and stomach-ache.
STOT-SE:	There are no components of this product, present at a concentration greater than or equal to 1%, that they classify as toxic to target organs according to the GHS.
STOT-RE:	There are no components of this product, present at a concentration greater than or equal to 1%, that they classify as toxic to target organs according to the GHS.
Aspiration:	There are no components of this product, present at a concentration greater than or equal to 10%, that classify as toxic by aspiration according to the GHS.

SECTION 12 – ECOLOGICAL INFORMATION

12.1. Toxicity

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

Acute effects on water organisms and fish: SLIGHTLY TOXIC

Toxicity to birds: PRACTICALLY NON-TOXIC

Toxicity to bees: VIRTUALLY NON-TOXIC

12.2. Persistence and degradability

BIODEGRADABILITY (estimated): No test data, but the product is expected to be biodegradable.

12.3. Bioaccumulative potential

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

BIOCONCENTRATION FACTOR - BCF (OCDE 305): N/D - It is not expected to have the potential to bioaccumulate significantly.

12.4. Mobility in soil

HENRY CONSTANT (20°C): N/D

LogKoc: N/D

DISTRIBUTION (%):

12.5. Results of PBT and vPvB assessment

There are no test data, but it is believed that this product does not meet the PBT criteria of Annex XIII of the REACH regulation.

12.6. Other adverse effects

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

SECTION 13 – DISPOSAL CONSIDERATIONS

Both the excess product and empty containers should be disposed of in accordance with current legislation regarding the Protection of Environment and particularly of hazardous waste. It should classify the waste and dispose of it by an authorized company.

Empty containers may contain residue and thus be dangerous. Do not attempt to refill or clean containers without possessing the appropriate instructions.

SECTION 14 – TRANSPORT INFORMATION**14.1 Transport by land**

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
Packing group:	NOT CLASSIFIED AS A DANGEROUS GOODS
Hazard identification number:	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
Packing group:	NOT CLASSIFIED AS A DANGEROUS GOODS
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

Packing group:	NOT CLASSIFIED AS A DANGEROUS GOODS
EMS:	NOT CLASSIFIED AS A DANGEROUS GOODS
Stowage and manipulation:	NOT CLASSIFIED AS A DANGEROUS GOODS
Segregation:	NOT CLASSIFIED AS A DANGEROUS GOODS
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 (1005/2009/EC).
Volatile organic compounds (VOC's) (1999/13/EC): 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

N/A: not applicable.	PEL: Permissible Exposure Limit.
N/D: no data available.	INSHT: National Institute for Safety and Health at Work.
CAS: Chemical Abstracts Service	ATE: Acute toxicity estimate.
IARC: International Agency for Research on Cancer	LD50: Lethal Dose.
ACGIH: American Conference of Governmental Industrial Hygienists.	LC50: Lethal Concentration.
TLV: Threshold Limit Value	EC50: Average Effective Concentration.
TWA: Time Weighted Average	IC50: Inhibitory Concentration Medium.
STEL: Short Term Exposure	: Changes from the previous revision.
REL: Recommended Exposure Limit.	

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 6 ('ST / SG / AC 10/30 / Rev.6') and clarification is made if required.

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 2017) and amendments.

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID 2017) and amendments.

International Maritime Dangerous Goods Code (IMDG 2016 - Amendment 38-16), International Maritime Organization (IMO).

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

Regulations of the International Air Transport Association (IATA 58 ed., 2017) on the transport of dangerous goods by air.

16.3 Classification and procedure used to derive the classification for mixtures

The classification was performed based on chemical analogues and product information.

SECTION 2: classification by analogy with other products, and based on product data.

SECTION 9: product data.

SECTION 11 and 12: analogy with other products.

Acute toxicity: calculation method for estimating acute toxicity.

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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