



Revision: April 2017

RIZOSPRAY EXTREMO
MATERIAL SAFETY DATA SHEET**SECTION 1 - IDENTIFICATION OF THE PRODUCT AND THE COMPANY****1.1 Product identifier****Product name:** RIZOSPRAY EXTREMO**Internal Code:****1.2 Relevant identified uses of the substance or mixture and uses advised against****Recommendations for Use:** Adjuvant - Emulsifiable concentrate.**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.

T: +54 2477 40 9428 - F: +54 2477 43 2893

1.4 Emergency telephone number

Emergency telephone number (24 horas): CIQUIME 0800 222 2933 (from Argentina)

+ 54 11 4611 2007 (from the outside)

SECTION 2 – HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****CLASSIFICATION according to the Globally Harmonized System:**

Skin irritation (Category 3) - Eye irritation (Category 2A).

2.2 Label elements**Pictogram:****Word of caution:** ATTENTION**Indications of danger:**

H316 - Causes mild skin irritation.

H319 - Causes serious eye irritation.

Precautionary advice:

P264 - Wash carefully after handling.

P280 - Wear protective gloves, clothing and equipment for the eyes and face.

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P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses when they are present and can be done easily.

Continue with the washing.

P332 + P313 - In case of skin irritation: consult a doctor. P337 + P313 - If eye irritation persists, consult a doctor.

2.3 Other hazards

Any.

SECTION 3 - COMPOSITION/INFORMATION OF INGREDIENTS

3.1 Substance

Not applicable.

3.2 Mixture

MIXTURE COMPONENTS	No. CAS	% w/w	CLASIFICACION
Soybean oil, methyl esters	67784-80-9	78	Not classified
Poly (dimethylsiloxane)	9016-00-6	22	Skin Irr. 3; Eye Irr. 2

SECTION 4 – FIRST AID MEASURES

4.1 Description of first aid measures

General measures: Avoid exposure to the product, taking appropriate protection measures. Consult the doctor, taking the safety sheet.

Inhalation: Move the victim and procure clean air. Keep it calm. If you do not breathe, give artificial respiration. Call the doctor.

Skin contact: Wash immediately after contact with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and wash it before reusing.

Eye contact: Immediately flush eyes with water for at least 15 minutes, and keep the eyelids open to ensure that the entire eye and eyelid tissues are cleared. Flushing the eyes in a matter of seconds is essential to achieve maximum effectiveness. If you have contact lenses, remove them after the first 5 minutes and then continue rinsing your eyes. Seek medical advice.

Ingestion: DO NOT INDUCE VOMITING. Rinse the mouth with water. Never give anything orally to an unconscious person. Call the doctor. If vomiting occurs spontaneously, place the victim on his or her side to reduce the risk of aspiration.

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4.2 Most important symptoms and effects, both acute and delayed

Inhalation: may cause irritation in the respiratory tract.

Skin contact: may cause irritation.

Eye contact: may cause irritation.

Ingestion: may cause gastrointestinal discomfort.

4.3 Indication of any immediate medical attention and special treatment needed

Note to the doctor: Symptomatic treatment. For more information, consult a Poison Center.

SECTION 5 - FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Use dry chemical, foam, sand or CO₂. Use the product according to the surrounding materials. DO NOT use direct water jets.

5.2 Special hazards arising from the substance or mixture

Combustible. The liquid may burn but will not ignite easily.

5.3 Advice for fire-fighters

5.3.1 Instructions for fire extinguishing:

Spray the packaging with water to avoid ignition 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.

Spray the containers with water to keep them cool. Cool containers with water jets until well after the fire is extinguished. Fight the fire from a maximum distance or use fixed supports for hoses or regulators.

Prevent water used for fire control or dilution from entering watercourses, drains or springs.

5.3.2 Protection during firefighting:

Use autonomous breathing equipment. Structural fire protection clothing provides limited protection in fire situations ONLY; It may not be effective in spill situations.

5.3.3 Hazardous decomposition products in case of fire:

In the event of fire, it can give off irritating and / or toxic fumes and gases, such as carbon monoxide, silicon oxides 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 personnel who are not part of the emergency services

Avoid sources of ignition. Evacuate personnel to a ventilated area.

6.1.2 For emergency personnel

Avoid sources of ignition. Evacuate personnel to a ventilated area. Ventilate immediately, especially in low areas where vapors may accumulate. Do not allow the spilled product to be reused.

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6.2 Environmental precautions

Contain the liquid with a dam or barrier. Prevent entry into navigable waterways, sewers, basements or uncontrolled confined areas.

6.3 Methods and material for containment and cleaning up

Collect the product using sand, vermiculite, earth or inert absorbent material and clean or completely wash the contaminated area. Dispose of the water and the collected waste in labeled containers for disposal as chemical waste.

6.4 Reference to other sections

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

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for safe handling

Forbidden to eat, drink or smoke during handling. Avoid contact with eyes, skin and clothing. Wash after handling this product.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a clean, dry and well-ventilated area. Protect from the sun Keep containers closed.

Packaging materials: the one supplied by the manufacturer.

Incompatible products: Strong oxidizing agents, acids and bases.

7.3 Specific end uses

Adjuvant - Emulsifiable concentrate.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

CMP (Res. MTESS 295/03): 10 mg / m³, vegetable oil mists

CMP-CPT (Res. MTESS 295/03): N / A

CMP-C (Res. MTESS 295/03): N / A

TLV-TWA (ACGIH): 10 mg / m³, vegetable oil mists

TLV-STEL (ACGIH): 10 mg / m³, mists of vegetable oil

PEL (OSHA 29 CFR 1910.1000): 5 mg / m³, mists of vegetable oil

IDLH (NIOSH): N / A

REL-TWA: 10 mg / m³, vegetable oil mists

PNEC (water): N / A

PNEC (sea): N / A

PNEC-STP: N / A

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8.2 Exposure controls

8.2.1 Appropriate technical controls

Keep the workplace ventilated. Normal ventilation for usual manufacturing operations is generally adequate. Local bells must be used during operations that produce or release large quantities of product. In low or confined areas, mechanical ventilation should be provided. Have showers and eyewash stations.

8.2.2 Personal protective equipment

Eye and face protection: Safety glasses should be worn, splash proof of chemical products (complying with EN 166).

Skin protection: When handling this product, neoprene, nitrile or butyl impermeable protective gloves (complying with IRAM standards 36073608-3609 and EN 374), work clothes and safety shoes resistant to chemicals must be worn.

Respiratory protection: When necessary, use respiratory protection for oil mists. Special attention must be paid to the oxygen levels present in the air. If large releases occur, use self-contained breathing apparatus (SCBA).

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Liquid - Emulsifiable concentrate.

Color: Yellow, 106 C.

Characteristic smell.

Olfactory threshold: N / A

pH: N / A

Melting / freezing point: N / A

Boiling point / range: N / A

Evaporation rate: N / A

Flammability: The product is not flammable or combustible.

Flash point: 135 ° C (275 ° F)

Flammability limits: N / A

Vapor pressure (20 ° C): N / A

Vapor density (air = 1): N / A

Density (20 ° C): 0.88 - 0.92 g / cm³

Solubility (20 ° C): N / A

Coef. of distribution (logKo / w): N / A

Decomposition temperature: N / A

Autoignition temperature: N / A

Viscosity (cSt at 20 ° C): N / A

Constant of Henry (20 ° C): N / A

Log Koc: N / A

Explosive properties: Not explosive. According to column 2 of Annex VII of REACH, this study is not necessary because: in the molecule there are no chemical groups associated with explosive properties.

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Oxidizing properties: According to column 2 of Annex VII of REACH, this study is not necessary because: the substance, due to its chemical structure, cannot react exothermically with combustible materials.

9.2 Other information

Other properties: Any

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity

Reactions or decompositions of the product are not expected under normal storage conditions. Does not contain organic peroxides. It is not corrosive to metals. It 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 dangerous polymerization is expected.

10.4 Conditions to avoid

Avoid high temperatures.

10.5 Incompatible materials

Strong oxidizing agents, acids and bases.

10.6 Hazardous decomposition products

In case of heating it can give off irritating and toxic vapors. In case of fire, see Section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: oral LD50 (rat, OECD 401):> 5000 mg / kg
 LD50 der (rabbit, OECD 402):> 5000 mg / kg
 CL50 inh. (rat, 4hs., OECD 403):> 2.87 mg / l

Skin irritation or corrosion: Dermal irritation (rabbit, estim.): Mild irritant

Serious eye damage / eye irritation: Eye irritation (rabbit, estim.): Irritant

Respiratory or cutaneous sensitization: Cutaneous sensitivity (guinea pig, estim.): Non-sensitizing

Respiratory sensitivity (guinea pig, estim.): Not sensitizing

Mutagenicity, Carcinogenicity and toxicity for reproduction:

No information is available on any component of this product, which has levels greater than or equal to 0.1%, as a probable human carcinogen, possible or confirmed by IARC (International Agency for Research on Carcinogens).

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Acute and delayed effects:

Routes of exposure: Inhalation, dermal and ocular contact.

Inhalation: may cause irritation in the respiratory tract.

Skin contact: may cause irritation.

Eye contact: may cause irritation.

Ingestion: may cause gastrointestinal discomfort.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 Toxicity

LC50 (O. mykiss, OECD 203, 48 h): > 100 mg / l

ETA-EC50 (D. magna, calc., 48 h): > 100 mg / l

ETA-EC50 (P. subcapitata, calc., 48 h): > 100 mg / l

ETA-CE50 (T. pyriformis, calc., 48 h): > 100 mg / l

ETA-CSEO (D. rerio, calc., 14 d): > 1 mg / l

ETA-CSEO (D. magna, calc., 14 d): > 1 mg / l

LD50 (birds):> 2000 mg / kg

LD50 (bees):> 100 µg / bee

12.2 Persistence and degradability

BIODEGRADABILITY (estimated): some components of the product are not biodegradable, or they degrade with difficulty.

12.3 Bioaccumulative potential

Log K_{ow}: N/A

BIOACCUMULATION IN FISH – BCF (OCDE 305): N/D

12.4 Mobility in soil

LogK_{oc}: N/A

HENRY CONSTANT (20°C): N/A

12.5 Results of PBT and mPmB valoration

This substance / mixture does not meet the PBT criteria of Annex XIII of the REACH Regulation.

This substance / mixture does not meet the mPvB criteria of Annex XIII of the REACH regulation.

12.6 Other adverse effects

AOX and metal content: Does not contain organic halogens or metals.

SECTION 13 – DISPOSAL CONSIDERATIONS

Both the product surplus and empty containers must be disposed of in accordance with current legislation on Environmental Protection and on Hazardous Waste (National Law No. 24,051 and its regulations). You must classify the waste and dispose of it by an authorized company. Disposal procedure: incineration.

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SECTION 14 – TRANSPORT INFORMATION

14.1 TERRESTRIAL TRANSPORT

Proper Name for Transportation: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

N ° UN / ID: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

Hazard Class: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

Packing Group: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

Risk Code: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

Limited and excepted quantity: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

14.2 AIR TRANSPORT (ICAO/IATA)

Proper Shipping Name: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

N ° UN / ID: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

Hazard Class: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

Packing Group: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

Instructions for passenger and cargo aircraft: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

Instructions for cargo aircraft: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

CRE: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

14.3 MARINE TRANSPORT (IMO)

Transport in packaging according to the IMDG Code:

Proper Shipping Name: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

UN / ID N °: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

Hazard Class: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

Packing Group: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

EMS: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

Stowage and Handling: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

Segregation: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

Marine Pollutant: NO

Name for transport documentation: NON-HAZARDOUS MERCHANDISE FOR TRANSPORT

SECTION 15 – REGULATORY INFORMATION

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

Substance not dangerous for the ozone layer (1005/2009 / CE).

Volatile organic compounds (VOC) content (2004/42 / EC): N / A

15.2 Chemical Safety Assessment

The supplier has not carried out a chemical safety assessment of this substance / mixture.

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SECTION 16 – Other information

16.1 Abbreviations and acronyms

N / A: not applicable.

N / A: no information available.

CAS: IARC Chemical Abstracts Service: International Agency for Cancer Research

ACGIH: American Conference of Governmental

Industrial Hygienists.

TLV: Threshold Limit Value

TWA: Time-weighted average

STEL: Short-term Exposure Limit

REL: Recommended Exposure Limit.

PEL: Permissible Exposure Limit. INSHT: National Institute for Safety and Hygiene at Work.

ATE: estimation of acute toxicity.

LD50: Medium Lethal Dose.

LC50: Medium Lethal Concentration.

EC50: Average Effective Concentration.

IC50: Medium Inhibitory Concentration.

| : Changes with respect to the previous revision.

6.2 Main bibliographical references and data sources

Security Data Sheet in accordance with Resolution 801/2015 of the Superintendence of Labor Risks, MTESS, and IRAM Standard 41400: 2013 - Format of Safety Data Sheet according to the SGA.

Resolution 295/2003 Ministry of Labor, Employment and Social Security, Argentine Republic - Environmental exposure controls.

Resolution 310/2003 Superintendence of Workplace Risks, Ministry of Labor, Employment and Social Security, Argentine Republic - Carcinogenic Agents.

National Law No. 24,051 and its regulations, Argentine Republic - Law on hazardous waste.

Resolution 195/97 Secretariat of Public Works and Transportation, Argentine Republic - General Regulations for the Transport of Dangerous Goods by Road.

Regulation (EC) 1272/2008 on Classification, labeling and packaging of chemical substances and their mixtures, and their amendments.

Regulation (EC) 1907/2006 concerning the registration, evaluation, authorization and restriction of chemical substances and preparations (REACH), and its amendments.

Dir. 91/689 / CEE of hazardous waste and Dir. 91/156 / CEE of waste management.

European Agreement on the International Transport of Dangerous Goods by Road (ADR 2015).

Regulation concerning the International Transport of Dangerous Goods by Rail (RID 2015).

International Maritime Code of Dangerous Goods (IMDG 34 ed.), IMO, Resolution MSC 90/28 / Add.2.

Code IBC / MARPOL, IMO, Resolution MEPC 64/23 / Add.1.

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Regulations of the International Air Transport Association (IATA 56 ed., 2015) relating to the transport of dangerous goods by air.

Globally Harmonized System of Classification and Labeling of Chemical Products, fifth revised edition, 2015 (SGA 2015).

International Agency for Research on Cancer (IARC), classification of carcinogens. Review: 03/23/2015.

16.3 Classification and procedure used to determine the classification of the mixture

Procedures in accordance with the SGA / GHS and Resolution 801/2015 of the Superintendency of Occupational Risks, MTESS.

The classification has been made based on chemical analogs and product information. SECTION 2: classification by analogy with other products, and based on product data.

SECTION 9: product data.

Flammability: according to test data.

SECTION 11 and 12: analogy with other products.

Acute toxicity: calculation method of acute toxicity estimation.

16.4 Disclaimer

This information only refers to the product and does not have to be valid for other product (s) or for any process. This safety data sheet provides health and safety information.

The information is, according to our best knowledge, correct and complete. It is provided in good faith, but without guarantee. The product must be used in applications consistent with our product literature. Individuals who handle this product should be informed of the recommended safety precautions and should have access to this information. For any other use, the exposure should be evaluated in a way that appropriate handling practices and training programs can be implemented to ensure safe operations in the workplace.

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

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