

## MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No. 2015/830)  
Generic EU MSDS - No country specific data - No OEL data - Version date : 2019 11 28 - Language: EN

### RSL from *Ralstonia solanacearum* - (Bacterial protein produced in *E. coli*)

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Product name RSL from *Ralstonia solanacearum* - (Bacterial protein produced in *E. coli*)  
Product code LEC202  
Synonyms

REACH N° This substance is exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline (under the provisions of Article 2 (7) (a) and Annex IV of REACH).

CAS-N°

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

Relevant identified uses : Laboratory reagent. Research and development.  
Uses advised against : Not for human or animal use.

##### 1.3. Details of the supplier of the safety data sheet

Company Elicityl SA  
Address 746, avenue Ambroise Croizat  
F-38920 Crolles – France  
Telephone/Fax +33 (0) 4 76 40 71 61 / +33 (0) 4 76 45 59 50  
E-mail contact@elicityl.fr

##### 1.4. Emergency telephone number

Emergency phone # +33 (0)1 45 42 59 59 (ORFILA)  
+33 (0)1 45 42 59 59 (INRS)  
+33 (0)9 75 18 14 07 (CHEMTREC)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

Classification (EC) No. 1272/2008.

Physical hazards Not classified  
Health hazards Not classified  
Environmental hazards Not classified  
Additional information Caution. Not fully tested.

##### 2.2. Label elements

Hazard statement NC Not classified

##### 2.3. Other hazards

No data available

#### SECTION 3: Composition/information on ingredients

Product name RSL from *Ralstonia solanacearum* - (Bacterial protein produced in *E. coli*)  
Synonyms  
Chemical formula  
Molecular weight 9.9 kDa (monomer)  
CAS-N°

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

**General information:** Get medical attention if you feel unwell

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering artificial respiration. Get medical attention in case of symptoms.

**In case of skin contact:** Remove contaminated clothing. Rinse with water. Continue to rinse at least for 15 minutes. Wash contaminated clothing before reuse. Get medical attention in case of symptoms.

**In case of eye contact:** Flush eyes with plenty of water. Continue to rinse at least for 15 minutes. Get medical attention in case of symptoms.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention in case of symptoms.

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

See Section 11 for additional information on health hazards.

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

No data available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media:** Use water spray, , alcohol-resistant foam, dry chemical or carbon dioxide.

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

**Specific hazards:** None known

**Hazardous combustion products:** Thermal decomposition or combustion products may include : Carbon oxides

#### 5.3. Advice for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

Use protective equipment appropriate for surrounding materials

#### 5.4. Further information

No data available.

### SECTION 6: Accidental release measures

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

Use personal protection equipment. Remove persons to safety. Provide adequate ventilation. Use appropriate respiratory protection.

#### 6.2. Environmental precautions

Avoid discharge into drains or watercourses or onto the grounds.

#### 6.3. Methods and materials for containment and cleaning up

Wear protective clothing as described in Section 8. Sweep up and shovel. Keep in suitable, closed containers for disposal. For waste disposal, see Section 13

#### 6.4. Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13

#### 6.5. Additional information

Not available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Wear protective clothing as described in Section 8 of this safety data sheet. Wash hands thoroughly after handling. Provide adequate ventilation. Avoid generation and spreading of dust. Avoid contact with skin and eyes. Avoid inhalation of dust and vapours.

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

Store at cool temperature. Store at temperatures not exceeding -20°C. Keep container tightly closed in a dry and well-ventilated place.

#### 7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Occupational exposure limits** No exposure limits known for this product

#### 8.2. Exposure controls

##### Appropriate engineering controls

Provide adequate ventilation. Observe any occupational exposure limits for the product

##### Personal protective equipment

##### Eye/face protection

Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with appropriate government standards such as NIOSH (US) or EN 166 (EU).

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<b>Skin protection</b>	The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<b>Body Protection</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>Respiratory protection</b>	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Particulate filter, type P1. Use type N95 (US) or type P1 (EN 143) dust masks. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.
<b>Control of environmental exposure</b>	Keep container tightly sealed when not in use. Do not let product enter drains.

#### SECTION 9: Physical and chemical properties

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

Appearance Form	Freeze dried
Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

##### 9.2. Other safety information

No data available

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

No data available

##### 10.2. Chemical stability

Stable under recommended storage conditions.

##### 10.3. Possibility of hazardous reactions

No data available

##### 10.4. Conditions to avoid

No data available

##### 10.5. Incompatible materials

Strong oxidizing agents

##### 10.6. Hazardous decomposition products

Hazardous decomposition products: Oxides of carbon

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#### SECTION 11: Toxicological information

##### 11.1. Acute oral toxicity

*Data for mixture* No data available

*Substances* No data available

##### 11.2. Acute skin toxicity

*Data for mixture* No data available

*Substances* No data available

##### 11.3. Acute inhalation toxicity

*Data for mixture* No data available

*Substances* No data available

##### 11.4. Skin corrosion

*Data for mixture* No data available

*Substances* No data available

##### 11.5. Eye damage

*Data for mixture* No data available

*Substances* No data available

##### 11.6. Skin sensitisation

*Data for mixture* No data available

*Substances* No data available

##### 11.7. STOT RE

*Data for mixture* No data available

*Substances* No data available

##### 11.8. STOT SE

*Data for mixture* No data available

*Substances* No data available

##### 11.9. Carcinogenicity

*Data for mixture* No data available

*Substances* No data available

##### 11.10. Reproductive and Developmental toxicity

*Data for mixture* No data available

*Substances* No data available

##### 11.11. genotoxicity

*Data for mixture* No data available

*Substances* No data available

##### General information

##### *Inhalation*

No specific health hazards known. Dust may irritate the eyes and the respiratory system. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

##### *Ingestion*

Dust may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

##### *Skin contact*

No specific symptoms known. May cause discomfort if swallowed.

##### *Eye contact*

Prolonged contact may cause dryness of the skin

##### *Route of exposure*

Dust may cause slight irritation

##### *Target organs*

Ingestion Inhalation Skin and/or eye contact

No specific target organs known

#### SECTION 12: Ecological information

Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

##### 12.1 Toxicity

No data available

##### 12.2. Mobility

No data available

##### 12.3. Persistence and degradability

No data available

##### 12.4. Bioaccumulative potential

No data available

##### 12.5. Results of PBT assessment

No data available

##### 12.6. Other adverse effects

No data available

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#### SECTION 13: Disposal considerations

Observe all local environmental regulations. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered

#### 14. TRANSPORT INFORMATION

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)

**14.1. UN number**

No data available

**14.2. UN proper shipping name**

No data available

**14.3. Transport hazard class(es)**

No data available

**14.4. Packing group**

No data available

**14.5. Environmental hazards**

Not applicable

**14.6. Special precautions for user**

Not applicable

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable

**14.8. Additional information**

Not applicable

#### SECTION 15: Regulatory information

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

Not applicable

**15.2. Chemical Safety Assessment**

For this product a chemical safety assessment has not been performed.

**15.3. Additional information**

Not applicable

**Caution - substance not yet tested completely**

#### SECTION 16: Other information

Creation date: 2019 11 28

Version date: 2019 11 28

**16.1. Indication of changes**

Not applicable (first edition of the MSDS).

**16.2. Abbreviations and acronyms**

ADN / ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways. ADR / RID: European Agreement concerning the International Carriage of Dangerous Goods by Road / Regulations concerning the international carriage of dangerous goods by rail. CAS: Chemical Abstract Service Number. CLP: Classification, labeling and packaging. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods Code. DPD Dangerous Preparation Directive. UN number: United Nations number. No EC: European Commission Number. VPvB: very persistent and very bioaccumulative substances.

**16.3. Key literature references and sources for data**

No data available.

**16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]**

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

**16.5. Relevant R-, H- and EUH-phrases (Number and full text)**

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

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#### **16.6. Training advice**

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

#### **16.7. Additional information**

The product is supplied solely for research purpose and for use in the laboratory by experienced and qualified personnel. They are not intended for human or animal consumption; in particular they are not for nutritional and drug use.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Elicityl SA shall not be held liable for any damage resulting from handling or from contact with the above product.

See reverse side of quotation and invoice for additional terms and conditions of sale.