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

- 1.1. Product identifier  
Trade name: VITALGAN L  
Trade code: 655922
- 1.2. Relevant identified uses of the substance or mixture and uses advised against  
Recommended use: Agriculture.
- 1.3. Details of the supplier of the safety data sheet  
Supplier: QUIMOPROX, S.L.  
Street: Pol. Ind. Can Magre – C/ Carles Buhigas, nave 80  
Postal code/city: 08187 Sta. Eulalia de Ronçana - Barcelona  
Country: SPAIN  
Telephone: (34).93.844.66.94  
E-mail (competent person): quimoprox@quimoprox.com
- 1.4. Emergency telephone number  
In case of emergency +34 91 114 25 20  
Posion Center +34 91 562 04 20

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## SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture  
Classification according to Regulation (EC) N° 1272/2008 [CLP]:  
The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
- 2.2. Label elements  
Labelling according to Regulation (EC) N° 1272/2008 [CLP]:  
Hazard symbols:  
None  
Hazard statements:  
None  
Precautionary statements:  
None  
Special Provisions:  
None
- 2.3. Other hazards  
vPvB Substances: None - PBT Substances: None

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## SECTION 3: Composition/information on ingredients

- 3.2. Mixtures  
Description: Organic matter, molasses extract.  
Hazardous ingredients:  
Classification according to Directive 67/548/EEC / Classification according to Regulation (EC) No. 1272/2008 [CLP]  
None.  
Full text of R-, H- and EUH-phrases: see section 16.

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## SECTION 4: First aid measures

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4.1. Description of first aid measures

When in doubt or if symptoms are observed, get medical advice.

After inhalation:

No special measures are necessary.

Following skin contact:

Subsequently wash off with: Water.

After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion:

Rinse mouth thoroughly with water.

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

Skin irritation.

Eye Irritation.

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

Treat symptomatically.

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**SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet.

Dry extinguishing powder.

Foam.

Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media:

Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Carbon dioxide (CO<sub>2</sub>).

Carbon monoxide (CO).

Nitrogen oxides (NO<sub>x</sub>).

5.3. Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Collect contaminated fire extinguishing water separately. Do not allow to enter drains or surface water.

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**SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Personal protection equipment: see section 8.

For emergency responders:

Personal protection equipment: see section 8.

6.2. Environmental precautions

Cover drains.

Do not allow to enter into soil/subsoil.

Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

Ensure waste is collected and contained.

In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

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For containment:

Cover drains.

For cleaning up:

Absorb with liquid-binding material ( e.g. sand, diatomaceous earth or universal binding agents).

Collect in closed and suitable containers for disposal.

Wash with plenty of water.

6.4. Reference to other sections

Safe handling: see section 7.

Disposal: see section 13.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Protective measures:

Personal protection equipment: see section 8.

Fire prevention measures:

No special fire protection measures are necessary.

Advices on general occupational hygiene:

When using do not eat, drink, smoke, sniff.

Wash hands before breaks and after work.

Used working clothes should not be worn outside the work area.

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

Technical measures and storage conditions:

Requirements for storage rooms and vessels:

Suitable container/equipment material:

Glass.

Varnished iron.

Stainless steel.

Polyethylene (PE).

Unsuitable container/equipment material:

Iron.

Aluminium.

Suitable floor material:

The floor should be leak tight, jointless and not absorbent.

Acid-resistant.

Fire prevention measures:

No special fire protection measures are necessary.

Hints on joint storage:

Do not store together with: Strong oxidising agents.

Further information on storage conditions:

Recommended storage temperature: At room temperature.

### 7.3. Specific end use(s)

Identified use: see section 1.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Occupational exposure limit values

No data available.

PNEC-values

No data available.

DNEL-values

No data available.

## Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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#### 8.2. Exposure controls

Appropriate engineering controls:

See chapter 7. No additional measures necessary.

Personal protective equipment:

Eye/face protection:

Goggles (DIN 166).

Skin protection:

Hand protection:

Chemical resistant protective gloves (DIN EN 374).

The product

Suitable material: Butyl caoutchouc (butyl rubber) By long-term hand contact

Suitable material: NBR (nitrile rubber) By long-term hand contact

Suitable material: PVC (polyvinyl chloride) By long-term hand contact

Suitable material: NR (natural rubber, natural latex) By short-term hand contact

Body protection:

Wearing of fully sealed work clothing is recommended.

Chemical protection clothing.

Chemical resistant safety shoes.

Respiratory protection:

Usually no respiratory personal protective equipment is required.

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## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid.
Colour:	Dark brown.
Odour:	Faint.
Odour threshold:	No data available.
pH value	5 at 20°C (NFT 01-013)
Melting point / melting range	<0 °C
Boiling temperature / boiling range	ca.100 °C
Flash point	>100 °C
Vapourisation rate / Evaporation rate	No data available.
Flammable solids:	Not Relevant
Upper/lower flammability or explosive limits:	No data available.
Relative vapour density at 20 °C (air=1)	No data available.
Density	1,27 gr/cc
Solubility:	
Water solubility:	Miscible.
Partition coefficient n-octanol/water (log P O/W)	No data available.
Self ignition temperature	>200 °C
Decomposition temperature	>150 °C
Dynamic viscosity:	<150mPa*s /20 °C (NFT 51210)
Explosive properties	No
Oxidizing power	No

#### 9.2. Other information

Liquid density in kg/l	1,27 at 20 °C (NFT 20050)
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## SECTION 10: Stability and reactivity

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- 10.1. Reactivity  
No hazardous reactions if stored and handled as prescribed/indicated.
- 10.2. Chemical stability  
The product is stable if stored as prescribed/indicated.
- 10.3. Possibility of hazardous reactions  
No hazardous reaction when stored and handled according to instruction.
- 10.4. Conditions to avoid  
Decomposition takes place from temperatures above: 150 °C  
See section 7.
- 10.5. Incompatible materials  
Materials to avoid: Strong oxidising agents.
- 10.6. Hazardous decomposition products  
No hazardous decomposition products if stored and handled as prescribed/indicated.

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## SECTION 11: Toxicological information

- 11.1. Information on toxicological effects  
Except particular informations, the toxicological effects of product are assessed by the conventional method described in Annex II of Directive 1999/45/EC which take in consideration all health hazards of substances contained in the product.  
The product  
Acute oral toxicity - Test: LD50 Rat > 4000 mg/kg - Method: Estimation - Assessment: Not classified.  
Acute dermal toxicity - Test: LD50 Rabbit > 4000 mg/kg - Method: Estimation - Assessment: Not classified.  
Skin corrosion / Irritation - Method: Estimation - Assessment: Slightly irritant but not relevant for classification.  
Eye damage / irritation - Method: Estimation - Assessment: Slightly irritant but not relevant for classification.

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## SECTION 12: Ecological information

- Except particular informations, the ecotoxicological effects of product are assessed by the conventional method described in Annex III of Directive 1999/45/EC.
- 12.1. Toxicity  
The product  
Acute (short-term) fish toxicity - Endpoint: LC50 > 100 mg/L - Duration h: 96 h - Method: Estimation  
Acute (short-term) daphnia toxicity - Endpoint: CE50 > 100 mg/L - Duration h: 48 h  
Overall evaluation:  
According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".
- 12.2. Persistence and degradability  
The product  
Biodegradation – DBO5: 25,8 mgO<sub>2</sub>/gr. (10%) – DQO: 80 mgO<sub>2</sub>/gr (10%)  
Assessment: Biodegradable.
- 12.3. Bioaccumulative potential  
No data available.
- 12.4. Mobility in soil  
No data available.  
Known or predicted distribution to environmental compartments:  
No data available.
- 12.5. Results of PBT and vPvB assessment

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

The product does not contain organically bound halogen.

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**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Appropriate disposal / Product

Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

Packaging which cannot be cleaned should be disposed of as the product contents.

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**SECTION 14: Transport information**

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

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

IMDG-Marine pollutant: No

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Environmental Pollutant:

No

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**SECTION 15: Regulatory information**

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

Volatile organic compounds (VOC) content in percent by weight: 0 %(calculated)

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles - Annex XVII to Regulation (EC) No 1907/2006: No.

Water hazard class (WGK): Slightly hazardous to water (WGK 1).

15.2. Chemical safety assessment

No

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**SECTION 16: Other information**

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.