

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

1.1. Product identifier

Product form : Mixture
 Trade name : VITSEL 20% 1.2

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Raw material for chemical industry.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Laboratorios Lamons, S.A.
 C/ Ricard Calvet i Serra, 27-28 P.I. Mecanova
 25190 Lleida - Spain
 T +34 973 21 15 49 - F +34 973 20 40 11
dtolsa@lamons.es - <http://www.lamons.es>

1.4. Emergency telephone number

Emergency number : +34 973 21 15 49
 Office hours

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302
 Eye Irrit. 2 H319
 Skin Sens. 1 H317

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Harmful if sw allowed. May cause an allergic skin reaction. Causes serious eye irritation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning
 Hazardous ingredients : sodium selenite
 Hazard statements (CLP) : H302 - Harmful if sw allowed
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 Precautionary statements (CLP) : P272 - Contaminated work clothing should not be allowed out of the workplace
 P280 - Wear eye protection, protective gloves, protective clothing
 P301+P312 - IF SWALLOWED: Call POISON CENTER or doctor/physician if you feel unwell
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water
 P330 - Rinse mouth
 P362+P364 - Take off contaminated clothing and wash it before reuse
 EUH-statements : EUH031 - Contact with acids liberates toxic gas

2.3. Other hazards

PBT: not yet assessed
 vPvB: not yet assessed

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium selenite	(CAS-No.) 10102-18-8 (EC-No.) 233-267-9 (EC Index-No.) 034-003-00-3	<= 1	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Aquatic Chronic 2, H411
2-hydroxy propionic acid (L-Lactic acid)	(CAS-No.) 79-33-4 (EC-No.) 201-196-2 (REACH-no) 01-2119474164-39-XXXX	<= 1	Eye Dam. 1, H318 Skin Irrit. 2, H315

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Call a poison center or a doctor if you feel unwell.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a poison center or a doctor if you feel unwell.

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

- Symptoms/effects after skin contact : May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Eye irritation.
- Symptoms/effects after ingestion : Harmful if swallowed.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Not known.

5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.

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- Methods for cleaning up : Take up liquid spill into absorbent material. Collect spills and put it into appropriated container. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust, mist, vapours. Wear personal protective equipment.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place.
- Incompatible products : Oxidation agents.
- Incompatible materials : Direct sunlight.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Propane-1,2-diol (57-55-6)		
United Kingdom	Local name	Propane-1,2-diol
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ particulates 474 mg/m ³ total vapour and particulates
United Kingdom	WEL TWA (ppm)	150 ppm total vapour and particulates

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

protective gloves. Standard EN 374 - Protective gloves against chemicals.

Eye protection:

Safety glasses. Standard EN 166 - Personal eye-protection - specifications

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Sirupy liquid.
- Colour : Very pale yellow .
- Odour : Characteristic.

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Odour threshold	: No data available
pH	: 2,5 - 3,5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: < 15 °C
Boiling point	: > 80 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour Pressure 20°C	: No data available
Vapour density	: No data available
Relative density	: No data available
Density	: 1,03 g/cm ³
Solubility	: Soluble in water. Soluble in alcohols. Insoluble in organic solvents.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas.

10.4. Conditions to avoid

Avoid high temperatures. Protect from sunlight.

10.5. Incompatible materials

Acids. Oxidising agents.

10.6. Hazardous decomposition products

At high temperatures may form: Toxic gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Oral: Harmful if sw allowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Additional information	: Very low toxicity if swallowed. The oral LD50 for rats is not been described.

ATE CLP (oral)	708 mg/kg bodyw eight
sodium selenite (10102-18-8)	
LD50 oral rat	7,08 mg/kg bodyw eight
LD50, oral, rabbit	mg/kg
LD50, oral, Guinea pig	mg/kg
LD50, Intravenous, rat	mg/kg
LD50, Parenteral, rat	mg/kg
LD50, subcutaneous, mouse	mg/kg
LD50, Intravenous, mouse	mg/kg
LD50, intracervical, Dog	mg/kg
LD50, Intramuscular, rabbit	mg/kg

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sodium selenite (10102-18-8)	
LD50, Parenteral, Chicken	mg/kg
LD50, Intramuscular, Domestic animals	1.533 mg/kg

2-hydroxy propionic acid (L-Lactic acid) (79-33-4)	
LD50 oral	3750 mg/kg body weight

Skin corrosion/irritation	: Not classified pH: 2,5 - 3,5
Serious eye damage/irritation	: Causes serious eye irritation. pH: 2,5 - 3,5
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Mutagenicity tests are negative)
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

sodium selenite (10102-18-8)	
LC50 fishes	2,75 mg/l <i>Oncorhynchus mykiss</i> (<i>Trucha irisada</i>)
EC50 <i>Daphnia</i>	0,24 mg/l
ErC50 (algae)	0,25 mg/l <i>Daphnia magna</i> (48 h)
LOEC (acute)	0,52 mg/l <i>Daphnia magna</i> (<i>Pulga de mar grande</i>) 21 d.
NOEC (acute)	0,24 mg/l <i>Daphnia magna</i> (<i>Pulga de mar grande</i>) 21 d.

12.2. Persistence and degradability

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Biodegradation	> 90 % (OECD 302B)

12.3. Bioaccumulative potential

sodium selenite (10102-18-8)	
BCF fish 1	0,01 mg/l <i>Lepomis macrochirus</i> - 120 d
Bioconcentration factor (BCF REACH)	1850

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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PBT: not yet assessed	
vPvB: not yet assessed	

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Comply with local regulations for disposal.
Additional information	: Empty containers can be dumped after cleaning according to local legislation.
Ecology - waste materials	: Avoid release to the environment.

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

SECTION 14: Transport information

In accordance with ADR/RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	VITASEL 20% 1.2 - 2-hydroxy propionic acid (L-Lactic acid)
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Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out

2-hydroxy propionic acid (L-Lactic acid)

SECTION 16: Other information

Abbreviations and acronyms:

vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

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Full text of H- and EUH-statements:

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H300	Fatal if sw allowed
H302	Harmful if sw allowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H411	Toxic to aquatic life with long lasting effects
EUH031	Contact with acids liberates toxic gas

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Acute Tox. 4 (Oral)	H302	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product