



## LELY QUARESS-Lac plus

Code: 0 719 D

*Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010*

Version 5.1.0

Revision: 23/07/15

Print Date : 23/07/15

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

#### 1.1. Product identifier

Trade name LELY QUARESS-Lac plus

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

Use of the product

LIQUID ACID  
UDDER HYGIENE AFTER MILKING  
TEAT DISINFECTION

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

Company identification

LELY CONSUMABLES B.V  
Graafsingel 22  
6921 RT Duiven The Netherlands  
Tel: +31 (0)263186700  
Fax: +31 (0)263119096

For information regarding this safety data sheet, please contact :  
qa@lely-consumables.com

#### 1.4. Emergency telephone number

Emergency phone number

Emergency direct number ( 24 hours a day, 7 days a week): +31 (0)  
105996475  
DUBLIN (Information available at the Poisons Information Centre - Beaumont  
Hospital)  
(From 8 AM to 10 PM)  
  
LONDON (Information available at the National Poison Unit - Guy's Hospital)

### SECTION 2: Hazards identification

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

##### Classification according to Regulation 1272/2008/EC:

The mixture meets the classification criteria provided for under Regulation (EC) No 1272/2008.



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Serious eyes damages - Category 1

H318: Causes serious eye damage.

Skin irritation - Category 2

H315: Causes skin irritation.

### Classification according to Directive 1999/45/EEC:

The mixture does not meet the criteria for classification in accordance with Directive 1999/45/EC.

## 2.2. Label elements

### Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :



Signal word :

Danger

Hazard statement(s) :

H315: Causes skin irritation.

H318: Causes serious eye damage.

Precautionary statement(s) :

P102: Keep out of reach of children.

P260: Do not breathe spray.

P280: Wear protective gloves/protective clothing/eye protection.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P362 + P364: Take off contaminated clothing and wash before reuse.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

## 2.3. Other hazards

No particular known hazard. No labelling requirement but general use precautions should be taken in handling chemicals.



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Revision: 23/07/15

Print Date : 23/07/15

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable as this involves a mixture.

#### 3.2. Mixtures

Chemical nature of the mixture : LIQUID ACID

Substance(s)	CAS number (s)	EINECS number (s)	No registration REACH	Classification according to 67/548/EEC or 1999/45/EC	Classification according to Regulation 1272/2008/EC	Type
15% <= Propane-1,2-diol < 30%	57-55-6	200-338-0	01-2119456809-23	Not classified	Not classified	(2)
5% <= L-(+)-lactic acid < 10%	79-33-4	201-196-2	Biocidal active substance, regarded as already registered	Xi , R38 R41	Eye Dam. 1 H318 Skin Irrit. 2 H315	(1)
1% <= Octanoic acid < 5%	124-07-2	204-677-5	01-2119552491-41	C , R34	Skin Corr. 1B H314	(1)
1% <= Decanoic acid < 5%	334-48-5	206-376-4		Xi , R36/38	Skin Irrit. 2 H315 Eye Irrit. 2 H319	(1)

Type

(1) : Substance classified as hazardous for health and/or the environment

(2) : Substance with an exposure limit at the work station.

Substance of very high concern candidate for the authorisation procedure:

(3) : Substance considered as PBT (persistent, bioaccumulable, toxic)

(4) : Substance considered as vPvB (very persistent, very bioaccumulable)

(5) : Substance considered as carcinogenic category 1A

(6) : Substance considered as carcinogenic category 1B

(7) : Substance considered as mutagenic category 1A

(8) : Substance considered as mutagenic category 1B

(9) : Substance considered as reprotoxic category 1A

(10) : Substance considered as reprotoxic category 1B

(11) : Substance considered as endocrine disrupter

Full text of R-, H- and EUH- phrases : see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General indications:

Take the contaminated clothes and shoes off immediately. Wash them before wearing them again.

##### In the event of inhalation :



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Version 5.1.0

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Bring to fresh air.

**In the event of contact with the skin :**

Wash with plenty of soap and water.

If any sign of irritation appears, consult a dermatologist.

**In the event of contact with the eyes :**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

**In the event of ingestion :**

Rinse mouth.

Do NOT induce vomiting.

Get medical advice.

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

**Skin contact :** Causes skin irritation.

**Eye contact :** Causes serious eye damage.

**Ingestion :** May cause digestive troubles.

**Inhalation :** Not considered as hazardous through inhalation under normal conditions of use.

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

**Treatments :** Symptomatic treatment

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media :**

Water, powder extinguisher, foam, carbon dioxide.

Agents compatible with other products involved into fire.

**Unsuitable extinguishing media :**

None from our knowledge.

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

LELY QUARESS-Lac plus is non-flammable.

#### 5.3. Advice for firefighters



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Version 5.1.0

Revision: 23/07/15

Print Date : 23/07/15

Wear independent respiratory equipment and protective suit.  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
Keep containers cool by spraying with water if exposed to fire.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel :

Evacuate non-essential staff and those not equipped with individual protection apparatus.

##### 6.1.2. For emergency responders :

Evacuate the personnel to a safe location.  
Keep people upwind and away from the location of the flow/leak.  
Use personal protection equipment.

#### 6.2. Environmental precautions

Do not discharge the product directly to sewer or to environment.

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

##### Small spillage :

Wash with plenty of water.

##### Large spillage :

Never return spills in original containers for re-use.  
Keep in suitable, properly labelled and closed containers for disposal.  
Mark out, dyke up with an inert absorbant and pump in an emergency tank.

#### 6.4. Reference to other sections

Respect protective measures presented at heading 8.  
Refer to section 13 for the elimination.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Do not breathe spray.  
Do not eat, drink or smoke in work area. Avoid projections during use.

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

##### 7.2.1. Storage :

Do not store below the point of freezing.  
Keep only in the original container.  
Keep container closed.

##### 7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.



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### 7.3. Specific end use(s)

LELY QUARESS-Lac plus is for use as a biocide.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Exposure limit values :

Substance	Country	Type	Value	Unit	Comments	source
Propane-1,2-diol	GBR	OEL 8h	150	ppm		International limit values for chemical agents
			474	mg/m <sup>3</sup>		International limit values for chemical agents

### 8.2. Exposure controls

Directive 98/24/EEC requires the employer to introduce risk management measures. If restricted or indicative regulatory limit values have been set for substances in section 8.1, the employer must act on the outcome of his chemical risk assessment by checking the professional exposure limit values for their compliance.

#### 8.2.1. Appropriate engineering controls :

Ensure adequate ventilation.

Apply the necessary technical measures to comply with the professional exposure limit values.

#### 8.2.2. Individual protection measures, such as personal protective equipment :

##### Eye/face protection :

Wear safety goggles compliant with standard EN 166.



##### Hand protection :

Wear protective gloves with chemical resistance.



##### Skin protection :

Wear boots and a protective cloth with chemical resistance.





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Version 5.1.0

Revision: 23/07/15

Print Date : 23/07/15

### Respiratory protection :

No special protection measure is required.

### Thermal hazards :

Not applicable

### Health measures :

After using, wash systematically all personal protective equipment.

### 8.2.3. Environmental exposure controls :

Do not discharge the product directly to sewer or to environment.

## SECTION 9: Physical and chemical properties

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

Appearance	Clear liquid
Colour	Orange
Odour	Citronella
Odour threshold	Non available
Pure pH	2.2±0.2
pH value at 10g/l	Non available
Freezing point :	0 °C
Boiling point	Non available
Flash point	Not applicable
Evaporation rate:	Non available
Flammability	Not applicable
Vapour pressure	Non available
Vapour density	Non available
Mass density	1.04±0.01 g/cm³
Relative density	1.04±0.1
Solubility in water	Soluble in water in all proportions
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Non available
Viscosity	Non available
Explosive properties	Not applicable
Oxidising properties	Not applicable

### 9.2. Other information

No additional information.

## SECTION 10: Stability and reactivity



## LELY QUARESS-Lac plus

Code: 0 719 D

*Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010*

Version 5.1.0

Revision: 23/07/15

Print Date : 23/07/15

### 10.1. Reactivity

None under normal conditions of use.

### 10.2. Chemical stability

Stable in the recommended storage and handling conditions.

### 10.3. Possibility of hazardous reactions

None to our knowledge.

### 10.4. Conditions to avoid

Storage below the freezing point.

### 10.5. Incompatible materials

None to our knowledge.

### 10.6. Hazardous decomposition products

None to our knowledge in standard conditions of use.

These data are given for the concentrated mixture. The use of the mixture under its diluted form must be performed in conformity with data given by the technical data sheet and the technical adviser.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### **Substance-related data:**

##### Acute toxicity

L-(+)-lactic acid : LC 50 - inhalation - 4h rat 7.94 mg/L. - MSDS supplier

L-(+)-lactic acid : LD 50 - oral rat 3,730 mg/kg. - MSDS supplier

L-(+)-lactic acid : LD 50 - dermal rabbit > 2,000 mg/kg. - MSDS supplier

Decanoic acid ( 99% ) : 10,000 mg/kg. - MSDS supplier

Octanoic acid : LD 50 - dermal rabbit (OCDE 434): > 2,000 mg/kg. - MSDS supplier

Decanoic acid ( 99% ) : LD 50 - oral rat > 10,000 mg/kg. - MSDS supplier

Octanoic acid : LD 50 - oral rat (OCDE 401): > 2,000 mg/kg. - MSDS supplier

L-(+)-lactic acid : LD 50 - oral guinea-pig 1,810 mg/kg. - MSDS supplier

##### Skin corrosion/irritation

L-(+)-lactic acid ( 80% ) : Skin irritation . Irritating - MSDS supplier

Decanoic acid ( 99% ) : Skin irritation . Irritating - MSDS supplier

Octanoic acid : Skin irritation (OCDE 404): . Causes burns. - MSDS supplier

##### Serious eye damage/eye irritation

Octanoic acid : Eye contact : . Risk of serious damage of eyes - MSDS supplier

L-(+)-lactic acid ( 80% ) : Eye irritation . Risk of serious damage of eyes - MSDS supplier

Decanoic acid ( 99% ) : Eye irritation . Irritating - MSDS supplier

Octanoic acid : Eye irritation . Risk of serious damage of eyes - MSDS supplier

##### Mutagenicity

Octanoic acid : (OCDE 476): . Not mutagenic - MSDS supplier





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Version 5.1.0

Revision: 23/07/15

Print Date : 23/07/15

### Carcinogenicity

L-(+)-lactic acid ( 80% ) : . Not carcinogenic - MSDS supplier

### Mix-related data.:

#### Acute toxicity

. Not determined

#### Skin corrosion/irritation

Skin irritation . The mixture is considered to be irritating to the skin according to the Regulation 1272/2008/EC.

#### Serious eye damage/eye irritation

Ocular corrosivity . Causes serious eye damage according to the criteria of Regulation 1272/2008/EC.

#### Respiratory or skin sensitisation

Respiratory sensitization . The mixture is not considered as a respiratory sensitizer according to 1272/2008/EC Regulation.

Skin sensitisation . The mixture is not considered as a skin sensitizer according to 1272/2008/EC Regulation.

#### Mutagenicity

. The classification criteria are not met given the available data.

#### Carcinogenicity

. The classification criteria are not met given the available data.

#### Reproductive toxicity

. The classification criteria are not met given the available data.

#### Specific target organ toxicity - single exposure

. The classification criteria are not met given the available data.

#### Specific target organ toxicity - repeated exposure

. The classification criteria are not met given the available data.

#### Aspiration hazard

. The classification criteria are not met given the available data.

### Most important symptoms and effects, both acute and delayed :

**Skin contact** : Causes skin irritation.

**Eye contact** : Causes serious eye damage.

**Ingestion** : May cause digestive troubles.

**Inhalation** : Not considered as hazardous through inhalation under normal conditions of use.

## SECTION 12: Ecological information

### 12.1. à 12.4. Toxicity - Persistence and degradability - Bioaccumulative potential - Mobility in soil

### Substance-related data:



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Version 5.1.0

Revision: 23/07/15

Print Date : 23/07/15

### Acute toxicity

L-(+)-lactic acid : EC 50 - 48h daphnia 240 mg/L. - MSDS supplier

L-(+)-lactic acid : LC 50 - 48h fishes 320 mg/L. - MSDS supplier

L-(+)-lactic acid : EC 50 algae 3,500 mg/L. - MSDS supplier

Decanoic acid ( 99% ) : LC 50 - 96h fishes (oryzias latipes) 20 mg/L. - MSDS supplier

Decanoic acid ( 99% ) : LC 50 - 96h fishes (Oryzias latipes) 31 mg/L. - MSDS supplier

Octanoic acid : LC 50 - 96h fishes > 100 mg/L. - MSDS supplier

### Degradability

L-(+)-lactic acid : Biodegradability . Easily biodegradable. - MSDS supplier

Decanoic acid ( 99% ) : Log Pow 4.09 . - MSDS supplier

Octanoic acid : Biodegradability - 30days (OCDE 301D): > 72 %. Easily biodegradable. - MSDS supplier

### Bioaccumulation

Octanoic acid : Log Pow > 1 . - MSDS supplier

L-(+)-lactic acid : Log Pow - 0.72 . Not bioaccumulative - MSDS supplier

### Mix-related data:

#### Acute toxicity

fishes . Not determined

daphnia . Not determined

algae . Not determined

#### CHRONIC TOXICITY

. No data available.

#### Degradability

. No data available.

#### Bioaccumulation

. No data available.

#### Mobility

. No data available.

### Conclusion :

The mixture is not considered to be dangerous for the environment according to 1272/2008/EC Regulation.

## 12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

## 12.6. Other adverse effects

No additional information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods



## LELY QUARESS-Lac plus

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Version 5.1.0

Revision: 23/07/15

Print Date : 23/07/15

### **Treatment of the mixture :**

Do not discharge the product directly to sewer or to environment.

Comply with Directive 2008/98/EC of 19/11/2008 relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

### **Packaging treatment :**

Rinse thoroughly the packaging with water and treat the effluent like wastes.

Comply with Directive 2008/98/EC of 19/11/2008 relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

## **SECTION 14: Transport information**

### **ROAD TRANSPORT:**

*Rail/Route (RID/ADR)*

UN no :

UN proper shipping name : Not concerned

Class :

Packing group :

Hazard code :

Label :

Tunnel code :

Environmental hazard : No

Special precautions for user : No information.

### **MARITIME TRANSPORT :**

*IMDG*

UN no :

UN proper shipping name : Not concerned

Class :

Packing group :

Marine pollutant : No

Special precautions for user : No information.

EmS number :

### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :**

Not concerned

## **SECTION 15: Regulatory information**

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

#### **Regulations relating to the hazards from major accidents :**

Directive 96/82/EC amended by Directive SEVESO 2 (2003/15/EC)

#### **Regulations relating to the classification, packing and labelling of substances and mixes :**



## LELY QUARESS-Lac plus

Code: 0 719 D

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Version 5.1.0

Revision: 23/07/15

Print Date : 23/07/15

Regulation 1272/2008/EC amended, Directive 1999/45/EC amended.

### Waste regulations :

Directive 2008/98/EC of 19/11/2008 relating to waste - Regulation 1357/2014/EC

Decision 2014/955/EC which establishes the list of hazardous waste.

### Protection of workers :

Directive 98/24/EC of 07/04/1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Regulation 850/2004/EC on persistent organic pollutants and modifying Directive 79/117/EC** : Not concerned

**Regulation 2037/2000/EC on substances that deplete the ozone layer** : Not concerned

### Regulation (EC) 648/2004 :

Not concerned

## 15.2. Chemical safety assessment

No

## SECTION 16: Other information

The safety data sheet is additional to the technical data sheet but does not replace it. The information given here in is to the best of our knowledge correct and is given in good faith. We must also draw the user's attention on potential risks of the product is used for other purposes for which the product is known.

In no way does it exempt users from being aware of and complying with regulations applicable to their activity. It is their sole responsibility to take all necessary precautions in accordance to the usage of the product they are aware of.

Regulations are only stated in order to help users fulfill the duties involved in the use of the product.

This description should not be considered as exhaustive. It does not exempt users from ensuring if other demands need to be complied with-according to other laws than the ones hereby stated and applicable to holding and usage of the product-demands for which they will remain sole responsibility.

### Section(s) modified compared with the previous version :

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

### List of R phrases referred to in sections 2 and 3 :

R34 : Causes burns.

R36/38 : Irritating to eyes and skin.

R38 : Irritating to skin.

R41 : Risk of serious damage to eyes.

### List of H phrases referred to in sections 2 and 3 :

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H318 : Causes serious eye damage.



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Version 5.1.0

Revision: 23/07/15

Print Date : 23/07/15

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H319 : Causes serious eye irritation.

### Sources of key data used to compile the data sheet :

MSDS supplier

International limit values for chemical agents

### Historical :

Version 5.1.0

Cancels and replaces previous version 5.0.1