

Udder blue

Code: 072V1

## Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version **6.1.0**

Revision: **15/07/19**

Print Date : 27/07/19

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

#### 1.1. Product identifier

Trade name Udder blue

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

Use of the product

LIQUID ACID (consult Udder blue 1 and Udder blue 2)  
UDDER HYGIENE AFTER MILKING  
TEAT DISINFECTION

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

Company identification

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) +ž6ci `Yj UfX'>i `Yg'J 9F; 9F '6"D"%\$% \$  
' ), \$' '8-B5F 8 '7 989L!': F 5B79  
HY':.' ' '&:- - %\*) \$) \$\$\$

For information regarding this safety data sheet, please contact :  
regulatory@kersia-group.com

#### 1.4. Emergency telephone number

Emergency phone number

Emergency direct number ( 24 hours a day, 7 days a week ) :  
(+1-760-476-3961  
Access code : 333021

Call NHS 111 or a doctor

### SECTION 2: Hazards identification

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

The mixture doesn't meet the classification criteria provided for under Regulation (EC) No 1272/2008.

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### 2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :

Not concerned

Signal word :

Not concerned

Hazard statement(s) :

Not concerned

Precautionary statement(s) :

P102: Keep out of reach of children.

### 2.3. Other hazards

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

## 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 (consult Udder blue 1 and Udder blue 2)

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Substance(s)	CAS number(s)	EINECS number(s)	No registration REACH	Classification according to Regulation 1272/2008/EC	Type
5% <= Glycerol < 15%	56-81-5	200-289-5	01-2119471987-18	Not classified	(2)
1% <= L-(+)-lactic acid < 5%	79-33-4	201-196-2	Biocidal active substance, regarded as already registered	Eye Dam. 1 H318 Skin Irrit. 2 H315	(1)
1% <= Propane-1,2-diol < 5%	57-55-6	200-338-0	01-2119456809-23	Not classified	(2)
Chlorine dioxide<0.1%	10049-04-4	233-162-8	Biocidal active substance, regarded as already registered	Acute Tox. 3 (oral) H301 Skin Corr. 1B H314 Aquatic Acute 1 H400 STOT SE 3 H335 M Factor (Acute) 10	(1) (2)

#### 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 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 :

Bring to fresh air.

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

Wash with water.

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

Wash with water.

#### In the event of ingestion :

Rinse mouth.  
Do NOT induce vomiting.  
Get medical advice.

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

Skin contact : non irritating

Eye contact : non irritating

Ingestion : May cause digestive troubles.

Inhalation : Can irritate the nose, throat and respiratory tracts.

### 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 :

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

Udder blue is non-flammable.

### 5.3. Advice for firefighters

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 :

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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 :

Mark out, soak up with an inert absorbant and pump in an emergency tank.

Never return spills in original containers for re-use.

Keep in suitable, properly labelled and closed containers for disposal.

#### 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 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.

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

Udder blue is for use as a biocide.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Exposure limit values :

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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
		EMV (Exposure medium value) :	10	mg/m <sup>3</sup>	(Brouillard)	MSDS supplier
Glycerol	GBR	OEL 8h	10	mg/m <sup>3</sup>		International limit values for chemical agents
Chlorine dioxide	GBR	OEL 8h	0,1	ppm		International limit values for chemical agents
			0,28	mg/m <sup>3</sup>		International limit values for chemical agents
		OEL Short term	0,3	ppm		International limit values for chemical agents
			0,84	mg/m <sup>3</sup>		International limit values for chemical agents

### 8.2. Exposure controls

According to the requirements of Directive 98/24 /EC, the employer is required to conduct a risk assessment and implement appropriate risks management measures.

\* For any situation where the absence of risk is not proven, he must consider the substitution or reduction of risk by improving in priority processes used and collective protection measures. The effectiveness of the solutions implemented will be checked by measurement in comparison to the statutory limit values for substances defined in Section 8.1.

\* If the risk remains after these corrective actions, he must always check by routinely measuring compliance with regulatory OEL if they exist in section 8.1 and apply all the individual protective measures given in section 8.2.

\* When formalized risk assessment indicates a low risk to workers' health, control of compliance with regulatory OEL may not be considered and all individual protection measures is not always mandatory.

#### 8.2.1. Appropriate engineering controls :

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 :

No special protection measure is required.

Hand protection :

No special protection measure is required.

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#### Skin protection :

No special protection measure is required.

#### Respiratory protection :

None under normal conditions of use.

#### Thermal hazards :

Not applicable

#### Health measures :

None.

#### 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	Viscous liquid
Colour	Dark blue
Odour	Slightly pungent
Odour threshold	Not available
Pure pH	2.8±0.2
pH value at 10g/l	Not available
Freezing point :	-3 °C
Boiling point	Not available
Flash point	Not applicable
Evaporation rate:	Not available
Flammability	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Mass density	1.05±0.02 g/cm <sup>3</sup>
Relative density	1.05±0.02
Solubility in water	Totally soluble in the water
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not applicable
Oxidising properties	Not applicable

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### 9.2. Other information

No additional information.

## SECTION 10: Stability and reactivity

### 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

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

Chlorine dioxide : LD 50 - oral rat 93 mg/kg. - MSDS supplier

##### Skin corrosion/irritation

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

##### Serious damage to eyes/eye irritation

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

##### Carcinogenicity



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

#### Mix-related data:

##### Acute toxicity

LD 50 - oral rat (OECD 423): > 2,000 mg/kg. The product has not been tested. The information comes from structure or analogue composition products.

##### Skin corrosion/irritation

Skin irritation (OECD 404): . non irritating; The product has not been tested. The information comes from structure or analogue composition products.

##### Serious damage to eyes/eye irritation

Eye irritation (OECD 405): . non irritating; The product has not been tested. The information comes from structure or analogue composition products.

##### Respiratory / skin sensitisation

Skin sensitisation (OECD 429): . Not sensitising

Respiratory sensitisation . The mixture is not considered as a respiratory sensitiser 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 : non irritating

Eye contact : non irritating

Ingestion : May cause digestive troubles.

Inhalation : Can irritate the nose, throat and respiratory tracts.

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#### SECTION 12: Ecological information

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

###### Substance-related data:

###### 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

Chlorine dioxide : EC 50 - 48h daphnia 0.063 mg/L. - MSDS supplier

Chlorine dioxide : EC 50 - 72h algae 0.324 mg/L. - MSDS supplier

Chlorine dioxide : LC 50 - 96h fishes 0.03 mg/L. - MSDS supplier

###### Degradability

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

###### Bioaccumulation

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

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### 12.6. Other adverse effects

No additional information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### 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 amended, 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 amended, 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

Transport hazard class(es) :

Packing group :

Hazard code :

Label :

Tunnel code :

Environmental hazard : No

Special precautions for user : No information.

Limited Quantity (QL):

### MARITIME TRANSPORT :

IMDG

UN no :

UN proper shipping name : Not concerned

Transport hazard class(es) :

Packing group :

Marine pollutant : No

Special precautions for user : No information.

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EmS number :

Comply with the provisions of the IMDG on the physical separation of materials.

Limited Quantity (QL):

Transport in bulk according to Annex II of MARPOL 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 :

SEVESO 3 Directive (2012/18/EC) : Not concerned

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

Regulation 1272/2008/EC amended.

Waste regulations :

2008/98/EC Directive amended by 2015/1127/EC Directive - 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 applicable

Regulation 1005/2009/EC amended on substances that deplete the ozone layer : Not applicable

Regulation (EC) 648/2004 :

Not concerned

Comply with national and local legislation.

#### 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

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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 H phrases referred to in sections 2 and 3 :

H301 : Toxic if swallowed.

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H318 : Causes serious eye damage.

H335 : May cause respiratory irritation.

H400 : Very toxic to aquatic life.

Sources of key data used to compile the data sheet :

MSDS supplier

International limit values for chemical agents

Historical :

Version 6.1.0

Cancels and replaces previous version 6.0.1