

VIROLAC SPRAY

Code: 071U3

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

Version **6.1.0**

Revision: **15/07/19**

Print Date : 30/10/19

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

1.1. Product identifier

Trade name VIROLAC SPRAY

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

Use of the product

LIQUID ACID
UDDER HYGIENE
BEFORE AND AFTER MILKING

1.3. Details of the supplier of the safety data sheet

Company identification

A Ubi ZJW fYX'by KYfg]U
) +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 meets the classification criteria provided for under Regulation (EC) No 1272/2008.

VIROLAC SPRAY

Code: 071U3

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

Version 6.1.0

Revision: 15/07/19

Print Date : 30/10/19

Eye irritation - Category 2 H319: Causes serious eye irritation.

2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :



Signal word :

Warning

Contains : L-(+)-lactic acid

Hazard statement(s) :

H319: Causes serious eye irritation.

Precautionary statement(s) :

P102: Keep out of reach of children.P280: Wear eye protection.P305 + P351 + P338: IF IN EYES:
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.P337 + P313: If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No additional information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable as this involves a mixture.

VIROLAC SPRAY

Code: 071U3

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

Version **6.1.0**

Revision: **15/07/19**

Print Date : 30/10/19

3.2. Mixtures

Chemical nature of the mixture : LIQUID ACID

Substance(s)	CAS number(s)	EINECS number(s)	No registration REACH	Classification according to Regulation 1272/2008/EC	Type
5% <= Propane-1,2-diol < 10%	57-55-6	200-338-0	01-2119456809-23	Not classified	(2)
1% <= L-(+)-lactic acid < 3%	79-33-4	201-196-2	Biocidal active substance, regarded as already registered	Eye Dam. 1 H318 Skin Irrit. 2 H315	(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 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 :

IF IN EYES: 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.

In the event of ingestion :

Rinse mouth.

Do NOT induce vomiting.

Get medical advice.

VIROLAC SPRAY

Code: 071U3

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

Version **6.1.0**

Revision: **15/07/19**

Print Date : 30/10/19

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

Skin contact : non irritating

Eye contact : Causes serious eye irritation.

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 :

All the extinction agents are usable.

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

VIROLAC SPRAY 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 :

VIROLAC SPRAY

Code: 071U3

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

Version 6.1.0

Revision: 15/07/19

Print Date : 30/10/19

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 :

Keep only in the original container.

Keep protected from frost.

Keep container closed.

7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.

7.3. Specific end use(s)

VIROLAC SPRAY is for use as a biocide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values :

VIROLAC SPRAY

Code: 071U3

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

Version **6.1.0**

Revision: **15/07/19**

Print Date : 30/10/19

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 ³		International limit values for chemical agents
		EMV (Exposure medium value) :	10	mg/m ³	(Brouillard)	MSDS supplier

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 :

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 :

No special protection measure is required.

VIROLAC SPRAY

Code: 071U3

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

Version **6.1.0**

Revision: **15/07/19**

Print Date : 30/10/19

Skin protection :

No special protection measure is required.

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	Blue
Odour	Agreeable
Odour threshold	Not available
Pure pH	2.8±0.3
pH value at 10g/l	Not available
Freezing point :	-2 °C
Boiling point	> 100 °C
Flash point	Not applicable
Evaporation rate:	Not available
Flammability	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Mass density	1.01±0.01 g/cm ³
Relative density	1.01±0.01
Solubility in water	Soluble in water in all proportions
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

9.2. Other information

VIROLAC SPRAY

Code: 071U3

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

Version 6.1.0

Revision: 15/07/19

Print Date : 30/10/19

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 : LC 50 - inhalation rat 7.94 mg/L. - MSDS supplier

L-(+)-lactic acid (100%) : LD 50 - oral rat 3,543 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

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

VIROLAC SPRAY

Code: 071U3

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

Version 6.1.0

Revision: 15/07/19

Print Date : 30/10/19

Carcinogenicity

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

Mix-related data:

Acute toxicity

. Not determined

Skin corrosion/irritation

Skin irritation (OECD 404): . non irritating

Serious damage to eyes/eye irritation

Eye irritation . Causes serious eye irritation according to the criteria of the 1272/2008/EC.

Respiratory / skin sensitisation

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

Skin sensitisation . The mixture is not considered as a skin 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 : Causes serious eye irritation.

Ingestion : May cause digestive troubles.

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

VIROLAC SPRAY

Code: 071U3

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

Version 6.1.0

Revision: 15/07/19

Print Date : 30/10/19

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

Substance-related data:

Acute toxicity

L-(+)-lactic acid : LC 50 - 96h fishes (Lepomis macrochirus) 130 mg/L. - MSDS supplier

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

L-(+)-lactic acid : EC 50 - 48h daphnia (Daphnia magna) 130 mg/L. - MSDS supplier

L-(+)-lactic acid (80%) : EC 50 - 72h algae (Pseudokirschnerella subcaptata) 2,800 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

12.6. Other adverse effects

VIROLAC SPRAY

Code: 071U3

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

Version **6.1.0**

Revision: **15/07/19**

Print Date : 30/10/19

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.

EmS number :

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

VIROLAC SPRAY

Code: 071U3

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

Version 6.1.0

Revision: 15/07/19

Print Date : 30/10/19

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 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

VIROLAC SPRAY

Code: 071U3

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

Version 6.1.0

Revision: 15/07/19

Print Date : 30/10/19

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 :

H315 : Causes skin irritation.

H318 : Causes serious eye damage.

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.