

## VIROLAC FILM +

Code: 0 72R 1

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

Version 5.0.0

Revision: 27/03/15

Print Date : 27/03/15

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

#### 1.1. Product identifier

Trade name **VIROLAC FILM +**

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

Use of the product

**LIQUID ACID  
UDDER HYGIENE  
After milking**

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

Company identification

**Manufacturer: HYPRED S.A.  
57, Boulevard Jules VERGER B.P. 10180  
35803 DINARD CEDEX - FRANCE  
Tél : 33 2 99 16 50 00  
Fax : 33 2 99 16 50 20  
e-mail : hypred@hypred.fr**

For information regarding this safety data sheet, please contact :  
hypred.regulatory@roullier.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 your medical practitioner 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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Eye irritation - H319: Causes serious eye irritation.  
Category 2

EUH 208: Contains Mentha arvensis, extracts. May produce an allergic reaction.

### 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 :

Warning

Hazard statement(s) :

H319: Causes serious eye irritation.

EUH 208: Contains Mentha arvensis, extracts. May produce an allergic reaction.

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

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**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
5% <= Glycerol < 15%	56-81-5	200-289-5		Not classified	Not classified	(2)
5% <= Propane-1,2-diol < 10%	57-55-6	200-338-0	01-2119456809-23	Not classified	Not classified	(2)
1% <= L-(+)-lactic acid < 3%	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)
0.1% <= Mentha arvensis, extracts < 1%	90063-97-1	290-058-5		N Xi , R38 R43 R51/53	Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Chronic 2 H411	(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.

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### 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.

## 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 :

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

VIROLAC FILM + is non-flammable.

### 5.3. Advice for firefighters

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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 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.

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### 7.3. Specific end use(s)

VIROLAC FILM + 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
Glycerol	GBR	OEL 8h	10	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 :

For operators having allergic reaction, wearing chemical resistant protective gloves is recommended.

##### Skin protection :

No special protection measure is required.

##### Respiratory protection :

No special protection measure is required.

##### Thermal hazards :

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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	Opaque liquid
Colour	Dark green
Odour	Mentholated
Odour threshold	Non available
Pure pH	2.8±0.2
pH value at 10g/l	Non available
Freezing point :	-7 °C
Boiling point	> 100 °C
Evaporation rate:	Non available
Flammability	Not applicable
Vapour pressure	Non available
Vapour density	Non available
Mass density	1.04±0.02 g/cm <sup>3</sup>
Relative density	1.04±0.02
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****10.1. Reactivity**

None under normal conditions of use.

**10.2. Chemical stability**

Stable in the recommended storage and handling conditions.

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**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 &gt; 2,000 mg/kg. - MSDS supplier

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

Mentha arvensis, extracts : LD 50 - oral rat 4,450 mg/kg. - MSDS supplier

Mentha arvensis, extracts : LD 50 - dermal rabbit &gt; 5,000 mg/kg. - MSDS supplier

## Skin corrosion/irritation

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

Mentha arvensis, extracts : Cutaneous contact . Irritating - MSDS supplier

## Serious eye damage/eye irritation

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

## Sensitisation

Mentha arvensis, extracts : Skin sensitisation . Sensitizing - MSDS supplier

## Carcinogenicity

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

**Mix-related data:**

## Acute toxicity

. Not determined

## Skin corrosion/irritation

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



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Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

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

Respiratory sensitization . The mixture is not considered as a respiratory 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 :** 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.**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

Mentha arvensis, extracts : fishes . Toxic for fishes - MSDS supplier

Degradability

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

Bioaccumulation

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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****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 2001/119/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 2001/119/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

**SECTION 14: Transport information****ROAD TRANSPORT:**

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*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 :**

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

**Waste regulations :**

Directive 2008/98/EC of 19/11/2008 relating to waste.

Decision 2000/532/EC amended 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

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**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 :**

Revision of the safety data sheet according to 453/2010/EC Regulation.

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

R38 : Irritating to skin.

R41 : Risk of serious damage to eyes.

R43 : May cause sensitization by skin contact.

R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.

H318 : Causes serious eye damage.

H411 : Toxic to aquatic life with long lasting effects.

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

MSDS supplier

International limit values for chemical agents

**Historical :**

Version 5.0.0

Cancels and replaces previous version 4.0.



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