

**NOVODIP**

Code: 0 755 0

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

Version 6.0.0

Revision: 01/03/19

Print Date : 24/03/19

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

**1.1. Product identifier**

Trade name                      **NOVODIP**

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

Use of the product

**HYGIENE OF TEATS AFTER MILKING  
TEAT DIPPING AFTER MILKING**

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

Company identification

**1.4. Emergency telephone number**

Emergency phone number

**INRS  
30, rue Olivier Noyer  
75014 Paris - FRANCE  
Tél : + 33 (0) 1 45 42 59 59**

**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.

Serious damage to eyes - Category 1      H318: Causes serious eye damage.

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## 2.2. Label elements

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

#### Hazard pictograms(s) :



#### Signal word :

Danger

Contains : L-(+)-lactic acid+ D-gluconic acid compound with N,N"bis (4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)

#### Hazard statement(s) :

H318: Causes serious eye damage.

#### Precautionary statement(s) :

P264: Wash with water and soap thoroughly after handling.

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

P305 + P351 + P338 + P310: 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.

## 2.3. Other hazards

No additional information available.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

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Not applicable as this involves a mixture.

### 3.2. Mixtures

Chemical nature of the mixture : LIQUID DISINFECTANT

Substance(s)	CAS number(s)	EINECS number(s)	No registration REACH	Classification according to Regulation 1272/2008/EC	Type
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)
D-gluconic acid compound with N,N"bis (4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)<1%	18472-51-0	242-354-0	Biocidal active substance, regarded as already registered	Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M Factor (Acute) 10 M Factor (Chronic) 1	(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 case of faintness , get medical advice/attention. Show this safety data sheet to the doctor.

#### In the event of inhalation :

Bring to fresh air.

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

No measurement particular necessary.

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

Rinse at once with a soft stream of water for at least 15 minutes, eyes wide open.  
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 :** Prolonged or repeated contact with the skin can cause irritation.

**Eye contact :** Can cause irreversible ocular lesions.

**Ingestion :** Can induce mouth and digestive tract irritation .

**Inhalation :** Inhaling vapours or aerosols can irritate the nose and throat, a cough and difficulty breathing.

### 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 :**

Sprayed water or water mist.  
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

Possible formation of toxic gas in case of fire.  
- carbon monoxide (CO)

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- carbon dioxide (CO<sub>2</sub>)

#### 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 :

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

Intervention limited to trained staff.

#### 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, soak 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.  
Wash the hands and any other zone exposed with a soft soap and water, before eating, drinking, smoking, and before leaving work.

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Ensure a sufficient ventilation in case of risk of formation of vapours or aerosols.

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

##### 7.2.1. Storage :

Keep only in the original container.

Conceive the installations and take all measure to avoid the pollutions of waters and soil contamination.

Keep container closed.

Keep at moderate temperature in a clean and dry place,

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

High density polyethylene recommended.

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

NOVODIP 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
		EMV (Exposure medium value) :	10	mg/m <sup>3</sup>	(Brouillard)	MSDS supplier
Xanthan gum	FRA	EMV (Exposure medium value) :	10	mg/m <sup>3</sup>	(poussières)	MSDS supplier
			30	mg/m <sup>3</sup>	(poussières totales)	MSDS supplier
	DEU	MAK	6	mg/m <sup>3</sup>		MSDS supplier

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#### 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 :

Wear chemical resistant protective gloves (for example in vinyl alcohol, nitrile rubber, polychloropropene)



###### Skin protection :

To choose the means of body protection according to the activity and the type of exposure, for example: apron, boots, combination of protection against the chemicals conform to the standards INTO 465,466468

###### Respiratory protection :

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No special protection measure is required.

If the ventilation is insufficient, wear an approved mask fitted with a particle filter and adhere to the manufacturer's instructions.



#### **Thermal hazards :**

Not applicable

#### **Health measures :**

Safety shower and eye wash fountain near to workplace.

The user must determine the Individual protection equipments adequate according to his analysis of the risks and in collaboration with the suppliers of E.P.I. Taking into account the diversity of the types, it is necessary to respect the instructions of the manufacturers. Procedures of work must be established to minimize the contact of the operator with the product: shower, ocular fountain near the places of work and systematic washing of the individual protection equipments after each use.

To handle in well ventilated zones.

Prohibit contact with skin and eyes and inhalation of vapours.

After using, wash systematically all personal protective equipment.

After contact with skin, wash immediately and abundantly with water and soap, use neither abrasive product, nor solvent, nor fuel.

Handle in accordance with good industrial hygiene practices and the safety instructions.

#### **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**



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Appearance	Viscous liquid
Colour	Dark blue
Odour	Mentholated
Odour threshold	Not available
Pure pH	2.5
pH value at 10g/l	Not applicable
Freezing point :	Not available
Boiling point	0 °C
Flash point	Not applicable
Evaporation rate:	Not available
Flammability	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Mass density	1.05 g/cm <sup>3</sup>
Relative density	1.05
Solubility in water	dissolvable
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity	Not available
Explosive properties	Not applicable
Oxidising properties	non-oxidising

**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**

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Storage below the freezing point.  
Excessive heat (>50°C)

#### 10.5. Incompatible materials

Alkalines.

#### 10.6. Hazardous decomposition products

The thermal decomposition products can include carbon monoxide and carbon dioxide.

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

D-gluconic acid compound with N,N"bis (4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) ( 18,87% ) : LD 50 - oral rat > 2,000 mg/kg. - MSDS supplier  
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

###### Skin corrosion/irritation

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

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

D-gluconic acid compound with N,N"bis (4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) ( 18,87 % ) : Eye contact : . Risk of serious damage of eyes - MSDS supplier  
L-(+)-lactic acid ( 80% ) : Eye irritation . Risk of serious damage of eyes - MSDS supplier

###### Carcinogenicity

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

##### **Mix-related data: :**

###### Acute toxicity

. No data available.

###### Skin corrosion/irritation

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Skin corrosivity . The mix is not considered to be corrosive or irritating for the skin under the criteria of Regulation 1272/2008/EC.

Serious damage to eyes/eye irritation

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

Respiratory / skin sensitisation

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

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 :** Prolonged or repeated contact with the skin can cause irritation.

**Eye contact :** Can cause irreversible ocular lesions.

**Ingestion :** Can induce mouth and digestive tract irritation .

**Inhalation :** Inhaling vapours or aerosols can irritate the nose and throat, a cough and difficulty breathing.

## **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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#### 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

D-gluconic acid compound with N,N"bis (4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) : LC 50 fishes 2.08 mg/L. - MSDS supplier

D-gluconic acid compound with N,N"bis (4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) : EC 50 daphnia (Daphnia magna) 0.087 mg/L. - MSDS supplier

D-gluconic acid compound with N,N"bis (4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) : EC 50 algae 0.081 mg/L. - MSDS supplier

#### CHRONIC TOXICITY

D-gluconic acid compound with N,N"bis (4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) : NOEC daphnia 0.02 mg/L. - MSDS supplier

#### Degradability

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

D-gluconic acid compound with N,N"bis (4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) ( 18,87% ) : . Difficult to biodegrade - MSDS supplier

#### Bioaccumulation

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

D-gluconic acid compound with N,N"bis (4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) : Log Koc > 3.9 . - MSDS supplier

#### **Mix-related data: :**

##### Acute toxicity

fishes . No data available.

daphnia . No data available.

. No data available.

##### CHRONIC TOXICITY

. No data available.

##### Degradability

. No data available.

##### Bioaccumulation

. No data available.

##### Mobility

. No data available.

#### **Conclusion :**

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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 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):**

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#### **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. **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) :

#### **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

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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 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 :**

Not concerned

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

H315 : Causes skin irritation.

H318 : Causes serious eye damage.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

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

MSDS supplier

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**Historical :**

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Cancel and replaces previous version .