



	<b>Material Safety Data Sheet</b>	Rev.date: 22.08.2022 Version 1
	DM Vet Chlorhexidine powder	Page:  2/8

## SECTION 3: Composition/information on ingredients

### 3.1./3.2. Substances/Mixtures

ingredient	Index-no.	CAS/EU-no.	CLP Classification	W/W%	Note
Chlorhexidine dihydrochloride	-	3697-42-5/ 223-026-6	H410:Aquatic toxic(acute),M=10) Aquatic toxic(chronic):M:1) H319: Eye irr.2	≤1	
Zinc oxide	030-013-00-7	1314-13-2/ 215-222-5	H400;Aquatic acute 1,M=1 H410; Aquatic Chronic 1,,M=1	≤3	-

See full text of H-phrases in section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- Inhalation: Seek fresh air. Seek medical advice in case of discomfort.
- Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of discomfort.
- Skin contact: Intended for contact with skin.
- Eye contact: Flush with water (preferable using eye wash equipment) until the irritation subsides. Remove contact lenses. Seek medical advice if symptoms persistent

Additional information:When obtaining medical advice, show the safety data sheet or label.  
Symptoms: See section 11.

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

May cause slight irritation to the eyes.

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

When obtaining medical advice, show the safety data sheet or label.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

All extinguishing agents can be used. Do not use water stream, as it may spread the fire.

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

The product is not flammable.

### 5.3. Advice for firefighters

If there is a risk of exposure to vapor and flue gases, a self-contained breathing apparatus must be worn.

	<b>Material Safety Data Sheet</b>	Rev.date: 22.08.2022 Version 1
	DM Vet Chlorhexidine powder	Page:  3/8

## SECTION 6: Accidental release measures

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

Not relevant.

### 6.2. Environmental precautions

Do not discharge large quantities of concentrated spills and residue into drains. See section 12.

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

Collect spillage and transfer to suitable waste containers. See section 13 for instructions on disposal.

### 6.4. Reference to other sections

See above.

---

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Do not formate dust.

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

The product should be stored safely and away from children. Keep in tightly closed original packaging.

### 7.3. Specific end use(s)

See section 1.

---

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Occupational exposure limits according to EH40/2005 Workplace exposure limits (Fourth edition, 2020): -

#### DNEL and PNEC values:

DNEL- Zinc Oxide:

##### Workers:

Inhalation	Chronic Systemic	5mg/m <sup>3</sup>
Inhalation	Chronic Local	0,5mg/m <sup>3</sup>
Dermal	Chronic Systemic	83mg/kg bw/day

##### Consumers:

Inhalation	Chronic Systemic	2,5mg/kg bw/day
Dermal	Chronic Systemic	83 mg/kg bw/day
Oral	Chronic Systemic	0,83 mg/kg bw/day

PNEC – Zinc Oxide:

Freshwater	20,6 µg/L
Marine water	6,1µg/L
Soil	35,6mg/kg soil dw

DNEL- Chlorhexidine dihydrochloride

No data

	<b>Material Safety Data Sheet</b>	Rev.date: 22.08.2020 Version 1
	DM Vet Chlorhexidine powder	Page:  4/8

## 8.2. Exposure controls

There are no exposure scenarios for this product.

### Appropriate engineering controls:

Wash hands after use.

### Personal protective equipment:

Breathing equipment:	Not required.
Hand protection:	Not required.
Eye protection:	Not required.
Body and skin protection:	Not required.

### Environmental exposure controls:

Not relevant.

## SECTION 9: Physical and chemical properties

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

Appearance:	White powder
Odour:	Neutral
Odour threshold:	Not relevant
pH:	Not relevant
Melting point/ Freezing Point (°C):	Not relevant
Initial boiling point and boiling range (°C):	Not relevant
Flash point (°C):	Not flammable
Evaporation rate (n-BuAc=1):	Not relevant
Flammability (solid, gas):	Not relevant
Upper / lower flammability or explosion limits (vol-%):	Not relevant
Vapour pressure (mbar):	Not relevant
Vapour density (air=1)	Not relevant
Relative density(g/ml):	Not relevant
Solubility(ies):	Not soluble in water
Partition coefficient: n-octanol/water:	Not relevant
Auto-ignition temperature (°C):	Not relevant
Decomposition temperature (°C):	Not relevant
Viscosity (mm <sup>2</sup> /sec):	Not relevant
Explosive properties:	Not relevant
Oxidising properties:	Not relevant

### 9.2. Other information

Soluble in fat:	Not relevant
Surface tension (mN/m,25°C)	Not relevant

	<b>Material Safety Data Sheet</b>	Rev.date: 22.08.2020 Version 1
	DM Vet Chlorhexidine powder	Page:  5/8

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not reactive.

### 10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

### 10.3. Possibility of hazardous reactions

No risk of hazardous reactions..

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

No special precautions regarding contact with other materials at the recommended storage conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity:** No known hazards

Substance	Exposure	Art	Test	Results
Zinc Oxide	Oral	Rat	LD50	>2000mg/kg bw
Zinc Oxide	Inhalation	Rat	LD50/4h	>1,79mg/kg L
Zinc Oxide	Dermal	Rat	LD50	>2000mg/kg bw
Chlorhexidine dihydrochloride	Oral	Rat	LD50	>5110mg/kg bw
Chlorhexidine dihydrochloride	Inhalation	Rat	LD50/4h	No information
Chlorhexidine dihydrochloride	Dermal	Rat	LD50	No information

**Skin corrosion/irritation:** No known hazard.

**Serious eye damage/irritation:** May cause eye irritation.

**Respiratory or skin sensitization:** No known hazards

**Germ cell mutagenicity:** No known hazards

**Carcinogenicity:** No known hazards

**Reproductive toxicity:** No known hazards

**STOT-single exposure:** No known hazards

**STOT-repeated exposure:** No known hazards

**Aspiration hazard:** No known hazards

	<b>Material Safety Data Sheet</b>	Rev.date: 22.08.2022 Version 1
	DM Vet Chlorhexidine powder	Page:  6/8

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Test duration	Species	Test	Result
Zinc oxide	96 hours	Fish	LC50	1,793mg/L
Zinc oxide	48 hours	Daphnia	EC50	7,5mg/L
Zinc oxide	72 hours	Algae	EC50	1,12mg/L
Chlorhexidine dihydrochloride	96 hours	Fish	LC50	>1,0 - 1,8mg/L
Chlorhexidine dihydrochloride	48 hours	Daphnia	EC50	0,055mg/L
Chlorhexidine dihydrochloride	72 hours	Algae	EC50	0,062mg/L

### 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
No data	-	-	-

### 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
No data	-	-	-

### 12.4. Mobility in soil:

Test data are not available

### 12.5. Results of PBT and vPvB assessment

The mixture does not meet the criteria for PBT or vPvB.

### 12.6. Other adverse effects

Toxic to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste. Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

#### EWC Code:

18 02.05

#### Specific labelling: -

#### Contaminated packaging:

Uncleansed packaging is to be disposed of via the local waste-removal scheme.

## SECTION 14: Transport information

The product is covered by the rules for transport of dangerous goods. According to ADR 2017 Substances/products covered by UN3077/UN3082 are not regarded as dangerous goods if carried in quantities of less than 5 kg(or 5L) due to SP 375.

### 14.1 -14.4.:

ADR

UN-no.:	Proper shipping name	Transport hazard class(es)	Packing group
3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Solid,n.o.s(Zinc oxide+Chlorhexidienne dihydrochloride)	9	III

IMGD

UN-no.:	Proper shipping name	Transport hazard class(es)	Packing group
3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Solid,n.o.s(Zinc oxide+Chlorhexidienne dihydrochloride)	9	III

"All intellectual rights and information in this document concerning formula, ingredients mixture ect. is reserved Diafarm. Unauthorised copying, lending ect. of this information is prohibited"

	<b>Material Safety Data Sheet</b>	Rev.date: 22.08.2022 Version 1
	DM Vet Chlorhexidine powder	Page:  7/8

**14.5. Environmental hazards: -**

If the quantity transported exceeds 5 kg or litre must be labelled with an environmental hazard

**14.6. Special precautions for user: -**

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

Not relevant

**SECTION 15: Regulatory information**

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

EH40/2005 WELs(United Kingdom(UK), 8/2007).

**Restrictions for application: -**

**Demands for specific education: -**

**Additional labelling: -**

**15.2. Chemical safety assessment**

Chemical safety assessment has not been performed.

**SECTION 16: Other information**

**Other information:**

**Sources:**

EC regulation 1907/2006 (REACH).

Directive 2000/532/EC.

EC Regulation 1272/2008 (CLP).

**Full text of H-phrases as mentioned in section 2+3:**

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

H412 Harmful to aquatic life with long lasting effects

**Classification according to Regulation (EC) Nr. 1272/2008:**

Aquatic Chronic 2; H411	Calculation method
-------------------------	--------------------

**Abbreviations and acronyms used in the safety data sheet:**

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals. Regulation (EC) No 1907/2006.

CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

CAS-Number.: Chemical Abstracts Service number.

EC-Number.: EINECS and ELINCS Number (see also EINECS and ELINCS).

DNEL: Derived No Effect Level.

PNEC(s): Predicted No Effect Concentration(s).

STOT: Specific Target Organ Toxicity.

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

LC50: Lethal Concentration to 50 % of a test population.

EC50: The effective concentration of substance that causes 50% of the maximum response.

PBT: Persistent, Bioaccumulative and Toxic.

vPvB: Very Persistent and Very Bioaccumulative

**Other:** The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

**“All intellectual rights and information in this document concerning formula, ingredients mixture ect. is reserved Diafarm. Unauthorised copying, lending ect. of this information is prohibited”**