

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

071471671

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

071399674

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**Curodont Repair Fluoride Plus**

Revision date: 03/31/2022

Product code:

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**1. Identification****Product identifier**

Curodont Repair Fluoride Plus

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

mouthwash

**Uses advised against**

Any non-intended use.

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

Company name: vVARDIS AG  
Street: Sihlbruggstrasse 109  
Place: CH-6340 Baar  
Telephone: +41415014230  
Internet: <https://eu.vvardis.com/>  
Responsible Department: spc@vvardis.com

**Emergency phone number:** +41415014230 (9:00-17:00, Mo.-Fr.)**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**

Serious eye damage/eye irritation: Eye Irrit. 2A

**Label elements****29 CFR Part 1910.1200****Signal word:** Warning**Pictograms:****Hazard statements**

Causes serious eye irritation

**Precautionary statements**

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Wash hands thoroughly after handling.  
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.

**Hazards not otherwise classified**

The components in this formulation (&gt;0,1%) do not meet the criteria for classification as PBT or vPvB.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
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18472-51-0	D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)	ca. 1 %
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**4. First-aid measures****Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

**After contact with skin**

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

**After contact with eyes**

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>) Dry extinguishing powder. alcohol resistant foam. Atomized water.

**Unsuitable extinguishing media**

High power water jet.

**Specific hazards arising from the chemical**

Can be released in case of fire: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General advice**

See protective measures under point 7 and 8.

**For non-emergency personnel**

Wear personal protection equipment (refer to section 8).

**For emergency responders**

No special measures are necessary.

**Environmental precautions**

Discharge into the environment must be avoided.

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### Methods and material for containment and cleaning up

#### For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

#### For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

### Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

#### Advice on safe handling

Wear suitable protective clothing. (See section 8.)

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Advice on general occupational hygiene

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work.

#### Further information on handling

General protection and hygiene measures: See section 8.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

#### Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

#### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.  
Recommended storage temperature: 20°C  
Protect against: frost. UV-radiation/sunlight. heat. Humidity

## 8. Exposure controls/personal protection

### Control parameters

#### Exposure limits

CAS No.	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
-	Fluorides (as F)	-	2.5		TWA (8 h)	PEL
7681-49-4	Sodium fluoride (as F)	-	2.5		TWA (8 h)	REL

#### Additional advice on limit values

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

### Exposure controls

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### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). Standards: EN 166 or 29 CFR 1910.133

#### Hand protection

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of the glove material 0,4 mm

Breakthrough time  $\geq$  8 h

Butyl rubber. - Thickness of the glove material 0,5 mm

Breakthrough time  $\geq$  8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of the glove material 0,5 mm

Breakthrough time  $\geq$  8 h

NBR (Nitrile rubber). - Thickness of the glove material 0,35 mm

Breakthrough time  $\geq$  8 h

PVC (Polyvinyl chloride). - Thickness of the glove material 0,5 mm

Breakthrough time  $\geq$  8 h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The selected protective gloves should satisfy the specifications of standards like EN 374.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

#### Skin protection

Suitable protective clothing: Lab apron.

#### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Exceeding exposure limit values

Suitable respiratory protective equipment: half-mask with filter EN 149 or 29 CFR 1910.134 .

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

#### Environmental exposure controls

No special precautionary measures are necessary.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	liquid
Color:	clear
Odor:	characteristic

#### Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined

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Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	not determined

**Explosive properties**

none

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined

**Self-ignition temperature**

Gas:

not determined

Decomposition temperature:	not determined
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**Oxidizing properties**

none

pH-Value (at 20 °C):	7,48
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Viscosity / dynamic:	not determined
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Viscosity / kinematic:	not determined
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Flow time:	not determined
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Water solubility:	not determined
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**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:

**SECTION 12: Ecological information**

Vapor pressure:	not determined
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Density (at 20 °C):	0,9990 g/cm <sup>3</sup>
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Relative vapour density:	not determined
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**Other information****Information with regard to physical hazard classes**

Sustaining combustion:	Not sustaining combustion
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**Other safety characteristics**

Solvent separation test:	not determined
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Solvent content:	not determined
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Solid content:	not determined
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Evaporation rate:	not determined
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**Further Information****10. Stability and reactivity****Reactivity**

No information available.

**Chemical stability**

Stability:	Stable
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The product is chemically stable under recommended conditions of storage, use and temperature.

**Possibility of hazardous reactions**

Hazardous reactions:	Will not occur
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No information available.

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**Conditions to avoid**

Protect against: UV-radiation/sunlight. heat.

**Incompatible materials**

Materials to avoid: Oxidising agent, strong. Reducing agents, strong.

**Hazardous decomposition products**Can be released in case of fire: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).**11. Toxicological information****Information on toxicological effects****Route(s) of Entry**

Ingestion: May be harmful if swallowed. Inhalation: May be harmful if inhaled. Skin contact: May cause irritation. Eye contact: May cause irritation.

**Toxicokinetics, metabolism and distribution**

No data available.

**Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Components					
	Exposure route	Dose	Species	Source	Method	
18472-51-0	D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)					
	oral	LD50 mg/kg	2270	Rat	ECHA Dossier	OECD Guideline 401
	dermal	LD50 mg/kg	> 5000	Rabbit	ECHA Dossier	EPA - Proposed Guidelines for Tox

**Irritation and corrosivity**

Causes serious eye irritation

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**Sensitizing effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**Specific target organ toxicity (STOT) - single exposure**

Based on available data, the classification criteria are not met.

**Specific target organ toxicity (STOT) - repeated exposure**

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Fluorides (CAS 16984-48-8) inorganic, used in drinking-water is listed in group 3.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Specific effects in experiment on an animal**

No data available.

**Information on other hazards****Endocrine disrupting properties**

No data available.

**12. Ecological information**

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**Ecotoxicity**

The product has not been tested.

CAS No	Components					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
18472-51-0	D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)					
	Acute fish toxicity	LC50 2,08 mg/l	96 h	Danio rerio	ECHA Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 0,081 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 0,087 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
	Crustacea toxicity	NOEC 0,0206 mg/l	21 d	Daphnia magna	ECHA Dossier	OECD Guideline 211
	Acute bacteria toxicity	(EC50 25 mg/l)	3 h	activated sludge of a predominantly domestic sewage	ECHA Dossier	OECD Guideline 209

**Persistence and degradability**

The product has not been tested.

CAS No	Components			
	Method	Value	d	Source
	Evaluation			
18472-51-0	D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)			
	OECD 301A / ISO 7827 / EEC 92/69 annex V, C.4-A	71	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			

**Bioaccumulative potential**

No indication of bioaccumulation potential.

**Partition coefficient n-octanol/water**

CAS No	Components	Log Pow
18472-51-0	D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)	-1,81

**BCF**

CAS No	Components	BCF	Species	Source
18472-51-0	D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)	42	Leuciscus idus melanotus	Ecotoxicol. Environ.

**Mobility in soil**

No data available.

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

**Other adverse effects**

No data available.

**Further information**

Do not allow to enter into surface water or drains.



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**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

**RCRA Hazardous wastes (Resource Conservation and Recovery Act)**

None

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**14. Transport information****US DOT 49 CFR 172.101****Proper shipping name:**Not a hazardous material with respect to these transport regulations. &&  
Not controlled under DOT**Marine transport (IMDG)****UN number or ID number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)****UN number or ID number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**Special precautions for user**

See section 8.

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

not relevant

**15. Regulatory information****U.S. Regulations****National Inventory TSCA**

All components are listed in the TSCA 8 (b) inventory as "active" or exempted.

**National regulatory information**

SARA Section 304 CERCLA:

Sodium fluoride (7681-49-4): Reportable quantity = 1,000 (454) lbs. (kg)

SARA Section 311/312 Hazards:

D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13

-tetraazatetradecanediamidine (2:1) (18472-51-0): Immediate (acute) health hazard

Sodium fluoride (7681-49-4): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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**Additional information**

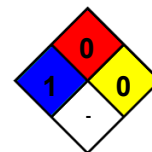
This preparation is hazardous in the sense of regulation 29 CFR Part 1910.1200.

**16. Other information****Hazardous Materials Information Label (HMIS)**

Health:	1
Flammability:	0
Physical Hazard:	0
Personal Protection:	A

**NFPA Hazard Ratings**

Health:	1
Flammability:	0
Reactivity:	0
Unique Hazard:	-

**Changes**

Revision date:	03/31/2022
Revision No:	1,0
Rev. 1.0; Initial release: 31.03.2022	

**Abbreviations and acronyms**

ACGIH: American Conference of Governmental Industrial Hygienists  
 ASTM: American Society for Testing and Materials.  
 ATE: acute toxicity estimate  
 BCF: Bio concentration factor  
 ECHA: European Chemicals Agency  
 CAS: Chemical Abstracts Service  
 CFR: Code of Federal Regulations  
 DOT: Department of Transportation  
 d: days  
 EC50: Half maximal effective concentration  
 EN: European Norm  
 EPA: Environmental Protection Agency  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 h: hours  
 HMIS: Hazardous Materials Identification System  
 IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
 IBC: Intermediate Bulk Container  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO: International Civil Aviation Organization  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 LOAEL: Lowest observed adverse effect level  
 LOAEC: Lowest observed adverse effect concentration  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 MARPOL: marine pollution  
 NOAEL: No observed adverse effect level  
 NOAEC: No observed adverse effect concentration  
 NTP: National Toxicology Program  
 N/A: not applicable  
 NFPA: National Fire Protection Association

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UN: United Nations

OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PBT: Persistent bioaccumulative toxic

RTECS: Registry of Toxic Effects of Chemical Substances

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

SARA: Superfund Amendments and Reauthorization Act

STEL: short-term exposure limits

TSCA: Toxic Substances Control Act

TWA: time weighted average

VOC: Volatile Organic Compounds

**Other data**

Classification according 29 CFR Part 1910.1200: - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*