Safety data sheet
according to UK REACH

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

· **Product identifier**

· **Trade name: ChlorCid™, ChlorCid™ V, ChlorCid™ Surf**

· **Article number:** SDS 34-001.12R01, 69004, 66004, 1005564, 4613, 97, 4612, 4612-JP, 1467
· **Relevant identified uses of the substance or mixture and uses advised against**
Professional Dental Sodium Hypochlorite Solution
· **Application of the substance / the mixture** Professional Dental Sodium Hypochlorite Solution

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Ultradent Products Inc.
505 W. Ultradent Drive (10200 S)
South Jordan, UT 84095-3942
USA
onlineordersupport@ultradent.com
(800) 552-5512

EC Responsible Person
Ultradent Products GmbH
Am Westhover Berg 30
51149 Cologne Germany
Email: infoDE@ultradent.com
Office Phone: +49(0)2203-35-92-0

· **Further information obtainable from:** Customer Service
· **Emergency telephone number:**
CHEMTREC (NORTH AMERICA) : +1 (800) 424-9300
(INTERNATIONAL) : +(703) 527-3887

2 Hazards identification

· **Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

corrosion

Eye Dam. 1 H318 Causes serious eye damage.

environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Skin Irrit. 2 H315 Causes skin irritation.

· **Label elements**
· **Labelling according to Regulation (EC) No 1272/2008** Void

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· **Hazard pictograms** GHS05, GHS09
· **Signal word** Danger

· **Hazard-determining components of labelling:**
Sodium Hypochlorite
Sodium Hydroxide
· **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
· **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P280	Wear protective gloves / eye protection / face 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.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

· **Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 7681-52-9 EINECS: 231-668-3	Sodium Hypochlorite Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1), EUH031 Specific concentration limit: EUH031: C ≥ 5 %	>1-<5%
CAS: 1310-73-2 EINECS: 215-185-5	Sodium Hydroxide Skin Corr. 1A, H314	>1-<5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

· **Description of first aid measures**
· **General information:**
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.
National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.
Immediately remove any clothing soiled by the product.
· **After inhalation:**
Supply fresh air.

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If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Call a doctor immediately.
In case of unconsciousness place patient stably in side position for transportation.

· ***After skin contact:***
If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.

· ***After eye contact:***
Seek immediate medical advice.
Rinse opened eye for several minutes under running water. Then consult a doctor.

· ***After swallowing:***
Do not induce vomiting without medical advice.
Never give anything by mouth to an unconscious person.
Seek immediate medical advice.
Call a doctor immediately.

· ***Most important symptoms and effects, both acute and delayed***
Causes skin irritation. Causes eye burns. Can burn mouth, throat, and stomach. Irritating to respiratory system. Nausea. Vomiting. May cause methemoglobinemia and cyanosis.
Shallow respiration.

· ***Indication of any immediate medical attention and special treatment needed*** *Treat symptomatically.*

5 Firefighting measures

· ***Extinguishing media***

· ***Suitable extinguishing agents:***
Use fire fighting measures that suit the environment.
Use fire extinguishing methods suitable to surrounding conditions.

· ***Special hazards arising from the substance or mixture***
Contact with combustible or organic materials may cause fire.
Contact with metals may evolve flammable hydrogen gas.

· ***Advice for firefighters:***

· ***Protective equipment:***
Wear fully protective suit.
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures***
Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Ensure adequate ventilation
Keep people at a distance and stay on the windward side.
Wear protective equipment. Keep unprotected persons away.

· ***Environmental precautions:***
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. See Section 12 for additional Ecological information.
Prevent entry into basements or confined areas.
Do not flush into surface water or sanitary sewer system.
Do not allow to penetrate the ground/soil.

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Should not be released into the environment.
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Stop leak if you can do it without risk. Neutralize with Sodium Thiosulfate or Sodium Bisulfite. Dilute with water.
Absorb spill with inert material (e.g. vermiculte, dry sand or earth).
Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· **Precautions for safe handling:**
Do not inhale vapor or mist.
Avoid release to the environment
Do not ingest.
Avoid contact with eyes, skin, and clothing.
· **Information about fire - and explosion protection:** *No special measures required.*

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Keep at temperature not exceeding 35□/95□. It can be stored at temperatures between 2 and 30 deg. C. Store away from incompatible materials. Store in a segregated and approved area.
Store only in the original receptacle.
Provide ventilation for receptacles.
· **Information about storage in one common storage facility:** *Not required.*
· **Further information about storage conditions:**
Store in a cool place.
Protect from exposure to the light.
See product labelling.
Keep container tightly sealed.
· **Specific end use(s)** *Professional Dental Sodium Hypochlorite Solution*

8 Exposure controls/personal protection

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
1310-73-2 Sodium Hydroxide	
WEL	Short-term value: 2 mg/m³

· **Additional information:** *The lists valid during the making were used as basis.*

· **Exposure controls**
· **Appropriate engineering controls** *No further data; see section 7.*

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· ***Individual protection measures, such as personal protective equipment***
· ***General protective and hygienic measures:***
Do not eat or drink while working.
When using do not smoke.
Observe good industrial hygiene practices.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
· ***Respiratory protection:***
Vapor respirator
Be sure to use an approved/certified respirator or equivalent.
· ***Hand protection***

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· ***Material of gloves***
The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· ***Penetration time of glove material***
The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· ***Eye/face protection***
Face protection

Tightly sealed goggles

· ***Body protection:***
Chemical resistant protective suit.
Boots

9 Physical and chemical properties

· ***Information on basic physical and chemical properties***
· ***General Information***

· ***Physical state***	*Fluid*
· ***Colour:***	*According to product specification*
· ***Odour:***	*Characteristic*
· ***Odour threshold:***	*Not determined.*
· ***Melting point/freezing point:***	*Undetermined.*
· ***Boiling point or initial boiling point and boiling range***	*Undetermined.*
· ***Flammability***	*Not applicable.*

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· **Lower and upper explosion limit**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Flash point:**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **pH at 20 °C**	11-13
· **Viscosity:**	
· **Kinematic viscosity**	Not determined.
· **Dynamic:**	Not determined.
· **Solubility**	
· **water:**	Not miscible or difficult to mix.
· **Partition coefficient n-octanol/water (log value)**	Not determined.
· **Vapour pressure:**	Not determined.
· **Density and/or relative density**	
· **Density:**	Not determined.
· **Relative density**	Not determined.
· **Vapour density**	Not determined.

· **Other information**	
· **Appearance:**	
· **Form:**	Fluid
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product does not present an explosion hazard.
· **Change in condition**	
· **Evaporation rate**	Not determined.

· **Information with regard to physical hazard classes**	
· **Explosives**	Void
· **Flammable gases**	Void
· **Aerosols**	Void
· **Oxidising gases**	Void
· **Gases under pressure**	Void
· **Flammable liquids**	Void
· **Flammable solids**	Void
· **Self-reactive substances and mixtures**	Void
· **Pyrophoric liquids**	Void
· **Pyrophoric solids**	Void
· **Self-heating substances and mixtures**	Void
· **Substances and mixtures, which emit flammable gases in contact with water**	Void
· **Oxidising liquids**	Void
· **Oxidising solids**	Void
· **Organic peroxides**	Void
· **Corrosive to metals**	Void
· **Desensitised explosives**	Void

10 Stability and reactivity

· **Reactivity**
Decomposition of sodium hypochlorite takes place within a few seconds with the following salts: ammonium acetate, ammonium carbonate; ammonium nitrate, ammonium oxalate and ammonium phosphate.
Primary amines and sodium hypochlorite react to form normal chloroamines, which are explosive.

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Chloramine gas may be evolved when ammonia and bleach are mixed.
Mixing sodium hypochlorite with ammonia, acids, detergents or organic matter (e.g urine, feces, etc.) will release chlorine gas.
Chlorination of ethyleneimine with sodium hypochlorite gives the explosive compound 1-chloroethyleneimine.
Evolves flammable hydrogen gas on contact with metals.
It may be a fire risk in contact with organic materials.
Contact with combustible materials (wood, paper, oil, clothing, etc.) may cause fire.
Stable at normal conditions. Unstable in air unless mixed with sodium hydroxide. Slowly decomposes on contact with air. Decomposed by carbon dioxide from air. Decomposed by hot water. Sensitive to light. Exposure to light accelerates decomposition.

· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** *Stable at normal conditions.*
· **Possibility of hazardous reactions:** *Hazardous polymerization does not occur.*
· **Conditions to avoid:**
Heat
Releases chlorine when heated above 35□.
Light
Air
Incompatible materials
· **Incompatible materials:**
Incompatible with ammonium acetate, ammonium carbonate, ammonium nitrate, ammonium oxalate, and ammonium phosphate, primary amines, phenyl acetonitrile, ethyleneimine, methanol, acidified benzyl cyanide, formic acid, urea, nitro compounds, methylcellulose, cellulose, aziridine, and ether
Acids
Metals
Amines
Combustible Materials
Organic materials
Reducing Agents
Ammonia
· **Hazardous decomposition products:**
When heated to decomposition it emits toxic fumes.
Hydrogen chloride gas
Sodium oxides
Chlorine
Hydrogen chloride (HCl)

11 Toxicological information

· **Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** *Based on available data, the classification criteria are not met.*

· **LD/LC50 values relevant for classification:**		
7681-52-9 Sodium Hypochlorite		
Oral	LD50	5,800 mg/kg (mouse)
1310-73-2 Sodium Hydroxide		
Oral	LD50	130-340 mg/kg (rat)
	LC50 Fish	160 mg/l (Fish)
Dermal	LD50	1,350 mg/kg (rabbit)
	Absolute lethal concentration	180 ppm (Fish)

· **Primary irritant effect:**
· **Skin corrosion/irritation** *Causes skin irritation.*

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· **Serious eye damage/irritation** Causes serious eye damage.
· **Information on other hazards**

· **Endocrine disrupting properties**
None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
1310-73-2 Sodium Hydroxide	
EC50	40.38 mg/kg (Water Flea)

· **Persistence and degradability** No further relevant information available.
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
· **Other adverse effects**
· **Remark:**
Very toxic for fish
Toxic for fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
Toxic for aquatic organisms
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation**
Disposal should be in accordance with applicable regional, national and local laws and regulations.
Dispose of contents/container in accordance with international, federal, state, and local regulations.

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN number or ID number**
· **ADR, IMDG, IATA** UN1719

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· **UN proper shipping name**	
· **ADR**	1719 CAUSTIC ALKALI LIQUID, N.O.S. (Sodium Hydroxide, Sodium Hypochlorite), ENVIRONMENTALLY HAZARDOUS
· **IMDG**	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium Hydroxide, Sodium Hypochlorite), MARINE POLLUTANT
· **IATA**	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium Hydroxide, Sodium Hypochlorite)
· **Transport hazard class(es)**	
· **ADR, IMDG**	
· **Class**	8 Corrosive substances.
· **Label**	8
· **IATA**	
· **Class**	8 Corrosive substances.
· **Label**	8
· **Packing group**	
· **ADR, IMDG, IATA**	II
· **Environmental hazards:**	Product contains environmentally hazardous substances: Sodium Hypochlorite
· **Marine pollutant:**	Symbol (fish and tree)
· **Special marking (ADR):**	Symbol (fish and tree)
· **Special precautions for user**	Warning: Corrosive substances.
· **Hazard identification number (Kemler code):**	80
· **EMS Number:**	F-A,S-B
· **Segregation groups**	(SGG18) Alkalis
· **Stowage Category**	A
· **Segregation Code**	SG22 Stow "away from" ammonium salts SG35 Stow "separated from" SGG1-acids
· **Maritime transport in bulk according to IMO instruments**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **Transport category**	2
· **Tunnel restriction code**	E

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· **IMDG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, SODIUM HYPOCHLORITE), 8, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

7681-52-9	Sodium Hypochlorite	Listed
1310-73-2	Sodium Hydroxide	12% of total caustic alkalinity

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category** E1 Hazardous to the Aquatic Environment
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
· **Chemical safety assessment:**
This product is composed of dilute sodium hypochlorite, which has a known toxicological profile. The product is only to be used by licensed dental professionals according to its intended use.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases from Section 3**
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH031 Contact with acids liberates toxic gas.

· **Department issuing SDS:** Environmental, Health, and Safety
· **Contact:** Customer Service

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· ***Abbreviations and acronyms:***
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
ATE: Acute toxicity estimate values
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
· **** Data compared to the previous version altered.***