

**SAFETY DATA SHEET**

according to Regulation (EC) No. 453/2010  
Dental Use



Date Issued : 03/02/2006  
SDS No : 34-001.9  
Date Revised : 05/31/2016  
Revision No : 8

**ChlorCid© & ChlorCid© V****SECTION 1 : Identification of the substance/preparation and of the company/undertaking****1.1. Product identifier**

Product code : CC/66004, CV/69004  
Product name : ChlorCid© & ChlorCid© V  
Product description : 3% Sodium Hypochlorite Solution

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

Relevant identified uses : Professional Dental Sodium Hypochlorite Solution

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

Ultradent Products, Inc.  
505 W. 10200 S.  
South Jordan, UT 84095

**1.4. Emergency telephone number**

CHEMTREC (NORTH AMERICA) :(800) 424 - 9300  
(INTERNATIONAL) :+1(703) 527 - 3887

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Directive 1999/45/EC**

: The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Danger symbols : Xi

R phrases : R36/38

**Classification according to Regulation(EC) No 1272/2008 [CLP]**

Health : Skin Corrosion, Category 1B

Environmental : Acute Hazards to the Aquatic Environment, Category 1

**2.2. Label elements****Classification according to Directive 1999/45/EC**

Hazard pictogram(s) : Xi



Irritant

R& statement(s) : R36/38: Irritating to eyes and skin.

**Classification according to Regulation(EC) No 1272/2008 [CLP]**



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**ULTRADENT**  
PRODUCTS, INC.

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<b>Hazard pictogram(s)</b>	:	 
		Corrosive    Environment
<b>Signal Word</b>	:	DANGER
<b>Hazard statement(s)</b>	:	H314: Causes severe skin burns and eye damage. H400: Very toxic to aquatic life.
<b>Precautionary statement(s)</b>	:	
<b>Prevention</b>	:	P280: Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response</b>	:	P305: IF IN EYES: P351: Rinse cautiously with water for several minutes. P315: Get immediate medical advice/attention. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P332+P313: If skin irritation occurs: Get medical advice/attention. P301: IF SWALLOWED: P330: Rinse mouth. P331: Do NOT induce vomiting. P314: Get medical advice/attention if you feel unwell.
<b>Storage</b>	:	P273: Avoid release to the environment.
<b>Disposal</b>	:	P501: Dispose of in compliance with governmental regulation.(EC1975L0442-20/11/2003)

### 2.3. Other hazards

Conclusion The substance does not fulfill the PBT and vPvB criteria for screening assessment; there are no indications of P or B properties.

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Not Applicable

### 3.2. Mixtures

Chemical Name	CAS	EINECS No.	Wt.%	Classification according to Directive 67/548/EEC	Classification according to Regulation(EC) No 1272/2008 [CLP]
Sodium Hypochlorite	7681-52-9	231-668-3	3	C; N; R34; R50/53	Skin Corr.,Cat. 1B; Aquatic Acute,Cat. 1; H314; EUH031; H400
Sodium Hydroxide	1310-73-2	215-185-5	≤ 3	C; R34	Skin Corr.,Cat. 1B; H314

For full text of H-statements and R-phrases: see SECTION 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Following eyes** : Immediately flush eyes with plenty of water for at least 15 minutes. Get

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immediate medical attention.

- Following skin** : Wash with soap and water. Get medical attention if irritation develops or persists.
- Following ingestion** : If swallowed, rinse mouth with water, Do NOT Induce Vomiting. Give victim a glass of water or milk. Call a physician or poison control center if you feel unwell.
- Following inhalation** : No specific treatment is necessary since this material is not likely to be hazardous by inhalation.

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

- Eyes** : Irritating to eyes.
- Skin** : May cause skin irritation.
- Ingestion** : Irritating to mouth, throat, and stomach.
- Inhalation** : None expected for this product.

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

- Notes to physician** : Causes eye irritation.

## SECTION 5: Fire fighting measures

### 5.1. Extinguishing media

- Extinguishing media** : Water spray, fog, or mist, foam, dry chemical, carbon dioxide(CO<sub>2</sub>)

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

- Hazardous combustion products** : None known.

### 5.3. Advice for firefighters

- Fire fighting procedures** : General: Evacuate all personnel; use protective equipment for fire-fighting. Use self-contained breathing apparatus when the product is involved in fire.

## SECTION 6: Accidental release measures

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

- General procedures** : Refer to Section 8 for Personal Protective Equipment.

### 6.2. Environmental precautions

- Water spill** : Do not allow to enter sewers or drains that may lead to waterways.

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

- Small Spill** : ONLY PEOPLE WEARING PPE SHOULD CLEANUP SPILLS. Wipe up small amounts with chemical resistant or damp rag which is washed with large amounts of water after each use. After cleaning, flush away traces with water.
- Large Spill** : ONLY PEOPLE WEARING PPE SHOULD CLEAN UP SPILLS. Absorb with inert, damp non-combustible material, then flush area with water.

### 6.4. Reference to other sections

- Reference to other sections** : Not Applicable
- Additional information** : PPE MUST BE WORN WHILE CLEANING UP ANY SPILLS. IF PEOPLE ARE NOT WEARING PPE THEY MUST BE EVACUATED FROM THE AREA OF

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THE SPILL.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling** : Use suitable protective equipment.  
**Storage** : See product labeling.

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

**Shelf life** : See product labeling

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

**Specific end use(s)** : Professional Dental Sodium Hypochlorite Solution

**SECTION 8: Exposure controls / personal protection**

**8.1. Control parameters**

**Control parameters** : Sodium Hydroxide CAS: 1310-73-2

Exposure Limit	Limit Values
OSHA Permissible Exposure Limit(PEL)- General Industry	2mg/m3 TWA
OSHA PEL - Construction Industry	2mg/m3 TWA
OSHA PEL - Shipyard Employment	2mg/m3 TWA
National Institute for Occupational Safety and Health(NIOSH) Recommended Exposure Limit(REL)	2mg/m3 Ceiling
CAL/OSHA PEL	2mg/m3 Ceiling
American Conference of Governmental Industrial Hygienists(ACGIH) Threshold Limit Value (TLV) (2001)	2mg/m3 Ceiling

**International Regulations**

Country	Exposure Limits	Limit Values
Australia	Peak limitation(199)	2mg/m3
Federal Republic of Germany	Short term level	2mg/m3, 4mg/m3, 5 minutes. 8 times per shift(1990)
United Kingdom	10 min Short term exposure limit (STEL)	2mg/m3 (1991)

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Sodium Hypochlorite CAS: 7681-52-9

Exposure Limit	Limit Values
Occupational Exposure Limits	TLV Not Established
American Industrial Hygiene Association (WEEL) Recommends	2mg/m3
NIOSH Recommended exposure limit (REL)	0.5ppm (as Chlorine)

Poly Acrylic Acid CAS 9003-01-4

Exposure Limit	Limit Values
Occupational Exposure Limits	TLV not established
Maximum workplace concentration (MAK)	0.05 mg/m3

## 8.2. Exposure controls

- Eye/face protection** : Wear eye protection
- Skin protection** : Wear suitable protective clothing and gloves.
- Respiratory protection** : Good general ventilation should be sufficient to control airborne levels.

## SECTION 9: Physical and chemical properties

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

- Physical state** : Liquid
- Appearance** : Clear
- Colour** : CV/69004 Yellow, CC/66004 Yellow to yellowish-green
- Odour** : Chlorine

### 9.2. Other information

- Percent volatile** : Not Available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

- Reactivity** : Stable

### 10.2. Chemical stability

- Chemical stability** : Stable when stored and handled under recommended conditions.

### 10.3. Possibility of hazardous reactions

- Hazardous polymerization** : None

### 10.4. Conditions to avoid

- Conditions to avoid** : Contact with acids liberates toxic gas.

### 10.5. Incompatible materials

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**Incompatible materials** : Ammonia, reducing agents, combustible materials, organic materials, acids

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** : None known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute

**Dermal LD<sub>50</sub>** : > 39500 mg/kg (rabbit)

**Notes** : ~ 2% of the mixture consists of components of unknown toxicity (dermal).

**Oral LD<sub>50</sub>** : > 4500 mg/kg (rat)

**Notes** : ~ 2% of the mixture consists of components of unknown toxicity (oral).

**Inhalation LC<sub>50</sub>** : Not able to calculate ATE mix(inhalation) due to lack of data on the components.

**Notes** : 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.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Aquatic toxicity (acute)** : Do not allow to enter sewers or drains that may lead to waterways.

### 12.2. Persistence and degradability

**Persistence and degradability** : Not classified

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** : Not classified

### 12.4. Mobility in soil

**Mobility in soil** : Not Available

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** : Conclusion The substance does not fulfill the PBT and vPvB criteria for screening assessment; there are no indications of P or B properties.

### 12.6. Other adverse effects

**Environmental data** : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal method** : Dispose of in compliance with governmental regulation.(EC 1975L0442-20/11/2003)

## SECTION 14: Transport information

### 14.1. UN number

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UN number : 3266

**14.2. UN proper shipping name**

UN proper shipping name : Corrosive, Liquid, Basic, Inorganic, N.O.S. (Sodium Hypochlorite Mixture)

**14.3. Transport hazard class(es)**

Primary hazard class/division : 8

Hazard classification : 8

**14.4. Packing group**

Packing group : II

**14.5. Environmental hazards**

Marine pollutant #1 : NAP

**14.6. Special precautions for user**

ADR - road : NAP

RID - rail : NAP

IMDG - sea : NAP

IATA - air : NAP

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Transport in bulk : NAP

**SECTION 15: Regulatory information**

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

RoHS : US Medical Device (not sold in the EU)

**15.2. Chemical safety assessment**

Chemical safety assessment : See Section 11

Additional information : WARNING! This product contains a chemical that is listed under IARC Monographs Category 3. Polyacrylic Acid.

**SECTION 16: Other information**

Relevant R-phrases and/or H-statements (number and full text) : R34: Causes burns.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Aquatic Acute, Cat. 1: Acute Hazards to the Aquatic Environment, Category 1  
Skin Corr., Cat. 1B: Skin Corrosion, Category 1B  
EUH031: Contact with acids liberates toxic gas.  
H314: Causes severe skin burns and eye damage.  
H400: Very toxic to aquatic life.

Prepared by : Anu Kattoju

Revision summary : This SDS replaces the 02/17/2016 SDS. Revised: **Section 1:** MSDS No. **Section 2:** EMERGENCY OVERVIEW - IMMEDIATE CONCERNS 2.3. Other hazards. **Section 8:** . **Section 9:** PERCENT VOLATILE. **Section 11:** ACUTE ( DERMAL LD<sub>50</sub> (rabbit), DERMAL LD<sub>50</sub> (rabbit), DERMAL LD<sub>50</sub> (rabbit),

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ORAL LD<sub>50</sub> (rat), INHALATION LC<sub>50</sub> (rat), ORAL LD<sub>50</sub> (rat), ORAL LD<sub>50</sub> (rat), ORAL LD<sub>50</sub> (rat) ). **Section 12:** CHEMICAL FATE INFORMATION, DISTRIBUTION, ECOTOXICOLOGICAL INFORMATION, ENVIRONMENTAL DATA, BIOACCUMULATION/ACCUMULATION, AQUATIC TOXICITY (ACUTE) ( 48-HOUR EC<sub>50</sub>, 96-HOUR EC<sub>50</sub> ), SECTION 12: Ecological information. **Section 14:** VESSEL (IMO/IMDG) - MARINE POLLUTANT #1 ROAD AND RAIL (UK only) (CDG) - SPECIAL PROVISIONS SECTION 14: Transport information, ADR - road, IMDG - sea, IATA - air. **Section 15:** COMMENTS. **Section 16:** GENERAL STATEMENTS.

**General statements**

: NAP = Not Applicable  
 NE = Not Established  
 TLV = Threshold Limit Value  
 PEL = Permittable exposure limits  
 MAK = Maximum Workplace Concentration  
 STEL = Short-term exposure limit  
 STEV = Short-term exposure value  
 TWA = Time Weighted Average  
 PPE = Personal Protective Equipment

**Manufacturer disclaimer**

: FOR DENTAL USE ONLY: Use as directed. The information and recommendations are taken from sources (raw material SDS(s) and manufacturer's knowledge) believed to be accurate; however, the manufacturer, makes no warranty with respect to the accuracy of the information or the suitability of the recommendation and assumes no liability to any user thereof. Each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.