Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Chlorhexidine Gluconate Solution, 20%
Commercial Name Not available.
Product Use Pharmaceutical ingredient for further manufacturing, Antiseptic/ Antimicrobial. External use only
Restrictions On Use Not available.

Product Code 30-4323

Company
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: CFR 1910.1200 Acute aquatic toxicity (Category 1) Chronic aquatic toxicity (Category 2)

Signal Word DANGER

Hazard Statement(s) May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention P261: Avoid breathing mist P264: Wash hands and skin thoroughly after handling P271: Use outdoors or well-ventilated area P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment P280: Wear protective gloves/protective clothing/eye protection/face protection P284: In case of inadequate ventilation, wear respirator protection

Response P305/P338/P351: IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. P310: Immediately call POISON CENTER or doctor/physician. P391: Collect spillage

Storage Not available.

Disposal P501 Dispose of contents/container to an approved waste disposal plant.

Section 3: Composition/Information on Ingredients

Substance/Mixture Mixture
Components Chlorhexidine Gluconate and USP Purified Water
% By Weight 19-21% and 79-81%
CAS# 18472-51-0, 7732-18-
Molecular Weight 897.76 g/mol
Chemical Formula C22H30C12N10 2C6H12O7
Synonym(s) 1,6-Bis(N5-p-chlorophenyl]-N1-biguanido) hexane; 1.1'-Hexamethylenebis(5-[pchlorophenyl] biguanide) Chlorhexidine digluconate; D-Gluconic acid, compound with n,n'-bis (4- chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediimidamide (2: 1); 1,6-Bis(N5-[p-chlorophenyl]-N1-biguanido)hexane; 1,1'-Hexamethylenebis(5-[p-chlorophenyl]biguanide)

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Chlorhexidine Gluconate	18472-51-0	19-21		
Water	7732-18-5	79-81		

Section 4: First-Aid Measures

Inhalation May cause irritation to the respiratory tract. Allow the victim to rest in a well- ventilated area; supply fresh air. Keep warm and at rest. If required, provide artificial respiration. Seek immediate medical attention.

Skin Contact May cause irritation. Remove contaminated clothing immediately. After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing. Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Eye Contact May cause irritation. Check for and remove any contact lenses. Immediatel y flush eyes with running water for at least 1 5 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention immediately.

Ingestion Do NOT induce vomiting. Thoroughly wash mouth with water (do NOT swallow). Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Symptoms/Effects

Acute Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Noncorrosive for skin. Non-sensitizer for skin. Non-permeator by skin.

Delayed Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Noncorrosive for skin. Non-sensitizer for skin. Non-permeator by skin. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can cause target organs damage.

Immediate Medical Attention

Not available.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Dry chemical, alcohol-resistant foam, carbon dioxide, water fog.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...), halogenated compounds.

Firefighters Special Equipment and Precautions

Firefighters should wear full protective gear. Self-contained breathing apparatus. Small fire: Use dry chemical powder. Large fire: Use water spray, fog or foam. Do not use water jet. Firefighters should wear full protective gear. Self-contained Breathing Apparatus (SCBA) if there is a risk of exposure to products of decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. See Section 8. Methods for Cleaning Small Spill: Dilute with water and mop up; or absorb with an inert dry material and place in an appropri ate waste disposal container. Methods for Cleaning Large Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Dispose in accordance with local, state and federal regulations. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Avoid runoff into storm sewers and ditches which lead to waterways

Section 7: Handling and Storage

Handling: Avoid contact with eyes, skin and clothing. Avoid ingestion. Wash hands thoroughly after handling. Use normal personal hygiene. Use with adequate ventilation. Avoid breathing dust/gas/fumes/vapor/spray. Keep away from heat. Keep away from sources of ignition. Empty containers present a fire risk. Evaporate the residue under a fume hood. Ground all equipment containing material. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Storage: Recommended storage at Controlled Room Temperature per USP <659>. Keep container dry and tightly closed. Product is slightly hygroscopic and should be stored in dry, cool, ventilated area. Do not freeze. Keep away from incompatible materials. Combu stible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Engineering Controls: Provide exhaust ventilation or othe engineering controls to keep the airborn concentrations of vapors below their respective threshold limit value. Ensure that eyewashstations and safety showers are proximal to the
Personal Protection	Hand Protection: Wear impervious gloves to minimize skin contact. Recommended neoprene or nitrile gloves. Eye Protection: Chemical goggles or safety glasses. Skin and Body Protection: Wear suitable lab coat. Respiratory Protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient. Consult a specialist BEFORE handling this product.

Section 9: Physical and Chemical Properties

Appearance	Colorless to pale yellow liquid.
Odor	Not available.
Odor Threshold	Not available.

Melting Point	Not available.	**pH**	5.5 – 7.0
Freezing Point	Not available.	**Vapor Pressure**	The highest known value is 17.535
Boiling Point/Range	Approximately 97°C	**Vapor Density**	The highest known value is 0.62 (A
Decomposition temperature	Not available.	**Viscosity**	Not available.
Partition Coefficient: n-octanol/water	Not available.	**Evaporation Rate**	Not available.
Flash Point	>200F	**Autoignition temperature**	Not available.
Flammability	Not available.	**Flammability or Explosive Limits:**	
		Lower	Not available.
		Upper	Not available.

Solubility(ies)	Easily soluble in cold water.
Other	Molecular Weight: 897.76

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	The product is stable at normal handling and storage conditions
Hazardous Polymerization	Will not occur under normal conditions.
Conditions to Avoid	Do not allow contact with air. Avoid extremely low and high temperatures.
Incompatible Materials	Keep away from sulfates, borates, bicarbonates and chlorides ; strong oxidizing agents. Strong alkalis. Strong acids.
Hazardous Decomposition Products	Toxic fumes such as oxides of carbon--carbon monoxide, carbon dioxide and hydrogen chloride gas.

Section 11: Toxicological Information

RTECS Not applicable.

Acute Toxicity
(LD50) 1260 mg/kg (mouse); 2000 mg/kg (rat)

Skin Corrosion/Irritation
Not available.

Serious Eye Damage/Irritation
Not available.

Respiratory or Skin Sensitization
Not available.

Germ Cell Mutagenicity
Not available.

Carcinogenicity
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA

Reproductive Toxicity
Not available.

Routes of Entry
Eye and skin contact, inhalation, ingestion.

Symptoms Related to Exposure
Not available.

Potential Health Effects
Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant) or inhalation. Non-corrosive for skin. Non-sensitizer for skin. Nonpermeable by skin.

Target Organ(s) The substance is toxic to lungs, mucous membrane s.

Section 12: Ecological Information

Ecotoxicity
Very toxic to aquatic life with long-lasting effects. Hazardous to environment. Avoid contaminating waterways. Ecotoxicity information for Components (20%): Test Time Result Species EC50 48h 0.087 mg/L Daphnia IC50 72h 0.011 mg/L Algae LC50 96h 10.4 mg/L Fish

Persistance and Degradability
Degree of elimination: 94% Evaluation: slowly biodegradable Not expected to bioaccumulate.

Bioaccumulative Potential
Not available

Mobility in Soil
Not available.

Other Adverse Effects
Do not allow product to reach ground water, water course or sewage systems. Danger to drinking water. Poisonous for fish.

Section 13: Disposal Considerations

Waste Disposal
Dispose of contents/container in accordance with local/state/federal regulations.

Disposal of Container
Not available.

Other Considerations
Not available.

Section 14: Transport Information

DOT Classification
Non-hazardous. Safe for road, sea and air. Land: Not classified as dangerous for transport by land (Australian Code for the Transport of Dangerous Goods by Road & Rail) DOT Classification: Not a DOT-controlled material (United States) Identification: Not applicable. Special Provisions for Transport: Not applicable. IATA/AIR TRANSPORT: Not Regulated

Section 15: Regulatory Information

Regulations
Federal and State Regulations TSCA 8 (b) inventory: Chlorhexidine gluconate: Water SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Acute Health Hazard New Jersey Right To Know Components Water (CAS: 7732-18-5) D-Gluconic acid, compound with N,N''-bis(4-chlorophenyl) -3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) (CAS: 18472-51-0) Pennsylvania Right To Know Components Water (CAS: 7732-18-5) D-Gluconic acid, compound with N,N''-bis(4-chlorophenyl) -3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) (CAS: 18472-51-0) Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other
WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

Section 16: Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or impled, with respect to such information, and we assume no liability resulting from its use. Users should make theri own infvestigaions to determine the suitability of the information for their purposes. In no event shall lab express international be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary ddamages, howsoever arising, even if Lab Express has been advised of teh possibility of such damages.