



SAFETY DATA SHEET

Preparation Date: 8/29/2016 Revision Date: Not Applicable Revision Number: Not Applicable

1. IDENTIFICATION

Product identifier

Product code: C4066

Product Name: Chlorhexidine Acetate, USP

Other means of identification

Synonyms: 1,6-Bis(5-(p-chlorophenyl)biguandino)hexane diacetate

1,1'-Hexamethylenebis(5-(p-chlorophenyl)biguanide) diacetate

Hibitane diacetate Chlorhexidine acetate

1,6-Di(4'-chlorophenyldiguanidino)hexane diacetate

CAS #: 56-95-1
RTECS # DU1930000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Disinfectant.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000.

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Serious eye damage/eye irritation	Category 1

Label elements

Danger

Hazard statements Harmful if swallowed

Fatal if inhaled

Causes serious eye damage

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Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Causes mild skin irritation

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection Wear eye/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Chlorhexidine Diacetate	56-95-1	100

4. FIRST AID MEASURES

First aid measures

General Advice: 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.

Skin Contact: Wash off immediately with soap and plenty of water. Get medical attention if irritation

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develops. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a

physician immediately.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. 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. Immediate medical attention is

required.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Fatal if inhaled. Coughing and wheezing. Sore throat. Causes eye irritation. May cause eye

injury. Risk of serious damage to eyes. Mild skin irritation. Ingestion may cause vomiting

and nausea.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

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.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon monoxide; Carbon dioxide; Nitrogen oxides;

hydrogen chloride gas

Hazardous Combustion Products: No information available.

Specific hazards: May be combustible at high temperatures

Special Protective Actions for Firefighters

Specific Methods: Water mist may be used to cool closed containers. Dike

fire-control water for later disposal; do not scatter the

material.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust

formation. Avoid breathing dust. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning upSweep up and shovel into suitable containers for disposal. Avoid creating dust.

Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors/dust. Avoid dust formation. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store in a segrated and approved area. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Chlorhexidine Diacetate	56-95-1	None	None	None	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Chlorhexidine Diacetate	56-95-1	None	None	None	None

Australia and Mexico

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Components	CAS-No.	Australia	Mexico
Chlorhexidine Diacetate	56-95-1	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Use process enclosures, local exhaust ventilation, or other

> engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure

limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles

Long sleeved clothing. Chemical resistant apron. Gloves. Skin and body protection:

Respiratory protection: Wear respirator with dust filter.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and Hygiene measures:

immediately after handling the product. When using, do not eat, drink or smoke.

Formula:

Lower Explosion Limit (%): No information available

Vapor pressure @ 20°C (kPa):

Density (g/cm3):

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color: Solid Crystals. Crystalline. White.

Odor: Taste

Odorless. No information available. C22H30Cl2N10.2C2H4O2

Molecular/Formula weight: Flammability: Flashpoint (°C/°F): No information available No information available. 625.60

Flash Point Tested according to:

Not available

Miscibility:

Autoignition Temperature (°C/°F):

No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 153-156°C/307.4-312.8°F No information available

Boiling point/range(°C/°F): **Bulk density:**

No information available No information available No information available

Specific gravity: :Ha

No information available No information available

No information available

Evaporation rate: Vapor density: VOC content (g/L): No information available No information available No information available

Odor threshold (ppm): Partition coefficient **Viscosity:**

Solubility:

No information available No information available (n-octanol/water): No information available

Miscible with water Soluble in Ethanol

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Slightly soluble in glycerol

10. STABILITY AND REACTIVITY

Reactivity

Reactive with strong oxidizing agents

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Avoid dust formation. Incompatible materials.

Incompatible Materials: Strong oxidizing agents

<u>Hazardous decomposition</u> When heated to decomposition it emits toxic fumes. Carbon monoxide. Carbon

products: dioxide. Nitrogen oxides (NOx). Hydrogen chloride gas.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Chlorhexidine Diacetate

CAS-No. | 56-95-1 **LD50/oral/rat** = 1180-1710 mg/kg Oral LD50 Rat

LD50/oral/mouse = 2 g/kg Oral LD50 Mouse

LD50/dermal/rabbit = >2000 mg/kg

LD50/dermal/rat = No information available

LC50/inhalation/rat = 0.3-0.43 mg/l

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 1180 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 2000 mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = > 2000 mg/kg

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LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available **VALUE-Gas** = No information available

VALUE-Dust/Mist = 0.3 mg/l

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Mild skin irritation.

Eye Contact: Causes eye irritation. Risk of serious damage to eyes. May cause eye injury.

Inhalation Fatal if inhaled. May cause irritation of respiratory tract. Symptoms may include

coughing and wheezing. May cause sore throat.

Ingestion Harmful if swallowed. Causes digestive (gastrointestinal) tract irritation. May cause

headache, nausea, vomiting.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Chlorhexidine Diacetate	56-95-1	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available.

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STOT - repeated exposure

Target Organs: No information available.

12. ECOLOGICAL INFORMATION

No information available.

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Chlorhexidine Diacetate	56-95-1	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: Toxic solids, organic, n.o.s. (chlorhexidine diacetate)

Hazard Class: 6.

Subsidiary Class No information available Packing group: No information available Emergency Response Guide No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information available

Symbol(s): [DOT]: (G) - Identifies proper shipping names for which one or more technical

names of the hazardous material must be entered in parentheses, in association

with the basic description.

Description: UN2811,Toxic solids, organic, n.o.s. ,6.1,PG II

TDG (Canada)

UN-No: UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant Marine Pollutant

Description: UN2811,TOXIC SOLID, ORGANIC, N.O.S.,6.1,PG II

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ADR

UN-No: UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Hazard Class: 6.1 Packing Group: II

Subsidiary Risk: No information available

Description: UN2811 Toxic solid, organic, n.o.s.,6.1,II

IMO / IMDG

UN-No: UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A

RID

UN-No: UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Description: UN2811 Toxic solid, organic, n.o.s.,6.1,II

ICAO

UN-No: UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Description: UN2811, Toxic solid, organic, n.o.s., 6.1, PG II

IATA

UN-No: UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group: II ERG Code: 6L

Special Provisions No information available

Description: UN2811, Toxic solid, organic, n.o.s., 6.1, PG II

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Chlorhexidine	56-95-1	Not Listed	Not present	Not present	Not present	Present	Present	Present
Diacetate								200-302-4

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

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Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
·				Reproductive	Reproductive
				Toxicity	Toxicity:
Chlorhexidine Diacetate	56-95-1	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Chlorhexidine Diacetate	56-95-1	None	None	None	None	None

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Chlorhexidine Diacetate	56-95-1	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

D1B Toxic materials

E Corrosive material

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Chlorhexidine Diacetate	56-95-1	Present	Not Listed
Components		CAS-No	CEPA Schedule I - Toxic Substances

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Chlorhexidine Diacetate	56-95-1	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Chlorhexidine Diacetate	56-95-1	Not listed

EU Classification

R-phrase(s)

R22 - Harmful if swallowed.

R26 - Very toxic by inhalation.

R41 - Risk of serious damage to eyes.

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Components	CAS-No.	Classification	Concentration	Safety Phrases
			Limits:	

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Chlorhexidine Diacetate 56-95-1 No information

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

T+ - Very toxic. Xn - Harmful. Xi - Irritant.

T+







16. OTHER INFORMATION

Preparation Date:8/29/2016Revision Date:Not ApplicablePrepared by:Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

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