



Basic Pharma Life Science Pvt. Ltd.

Manufacturers of Intermediates and Fine Chemicals

Plot No. 146/B, Opp. New Fire Station, GIDC Estate, Ankleshwar- 393 002. Gujarat India

Q & Q

Ph. : +91-2646-645714 / 226037 Tele Fax : +91-2646-226037 Email: basicpharma@gmail.com

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name : **Chlorhexidine Digluconate Solution**
 Synonyms : Chlorhexidine Gluconate 20%
 CAS No. 18472-51-0
 EINECS No. 242-354-0
 Additional Information : None

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

Identified use(s) Antiseptic, disinfectant

1.3 Details of the supplier of the safety data sheet

Company Identification : **Factory & Office:**
 Basic Pharma Life Science Pvt Ltd
 Plot No. 146/B, GIDC Estate,
 Opp New Fire Station
 Ankleshwar - 393002, Gujarat,
 India
 Phone: +91-2646-645714/226037
 E-mail: basicpharma@gmail.com
 +91-9825056886

1.4 Emergency Phone No.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation (EC) No. 1272/2008 (CLP).

Acute toxicity, Oral (category 4)

Eye irritation (category 2)

Acute aquatic toxicity (category 1)

Chronic aquatic toxicity (category 2)

H302: Harmful if Swallowed

H319: Causes serious eye irritation.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

According to Directive 67/548/EEC & Directive 1999/45/EC

Xi , N

R41: Risk of serious damage to eyes.

R50 + R53: Very toxic to aquatic organisms.

2.2 Label elements

Label elements

Hazard pictogram(s)



Signal word(s)

Hazard statement(s)

Precautionary statement(s)

Warning

H302: Harmful if Swallowed

H319: Causes serious eye irritation.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P391: Collect spillage.

P233: Keep container tightly closed.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P330: Rinse mouth.

P403+P235: Store in a well-ventilated place. Keep cool.

P501: Dispose of contents/container to a licensed disposal company



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Label elements	Xi , N
Risk Phrases	R41: Risk of serious damage to eyes. R50+R53: Very toxic to aquatic organisms.
Safety Phrases	S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37+S39: Wear protective gloves/protective clothing/eye protection/face protection. S46: If swallowed, seek medical advice immediately and show this container or label. S61: Avoid release to the environment. Refer to special instructions/Safety Data Sheets.

2.3 Information pertaining to special dangers for human and environment

This material is considered to represent risk of serious damage to eyes.
Acutely toxic towards fish, acutely very toxic to daphnia magna and algae.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

According to Regulation (EC) No. 1272/2008 (CLP).

Hazardous ingredient(s)	CAS No.	Hazard pictogram(s)	Hazard statement(s)
Chlorhexidine digluconate 20% w/v	18472-51-0	07, 09	H302,H319,H400,H411
Water 80% w/w	7732-18-5	None	None.

For full text of H/P phrases see section 16.

According to Directive 67/548/EEC & Directive 1999/45/EC

Hazardous ingredient(s)	CAS No.	Hazard Symbol	Risk Phrases
Chlorhexidine digluconate 20% w/v	18472-51-0	Xi , N	R41,R50,R53
Water 80% w/w	7732-18-5	None.	None.

For full text of R phrases see section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove persons affected by vapour to fresh air. If breathing becomes difficult, call a physician. Apply artificial respiration only if patient is not breathing or under medical supervision.
Skin Contact	Remove contaminated clothing immediately and drench affected skin with plenty of water, then wash with soap and water. Continue to wash the affected area for at least 15 minutes. If symptoms occur obtain medical attention. Contaminated clothing should be thoroughly cleaned.
Eye Contact	Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.
Ingestion	Seek medical treatment. Do not give anything by mouth to an unconscious or convulsing person.

4.2 Most important symptoms and effects, both acute and delayed

Severe irritant to the eye. Accidental ingestion is likely to result in irritation of the gastrointestinal tract.

4.3 First-aid equipment and medical advice for special treatment.

Symptomatic treatment and supportive therapy as indicated.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Extinguish with carbon dioxide, dry chemical, foam or waterspray.

5.2 Special hazards arising from the substance or mixture

Dike fire control water for later disposal. Disposal should be in accordance with local, state or national legislation. Contain effluent and prevent effluent from entering sewers and waterways. Contain the goods or any materials used in fire fighting.

5.3 Advice for fire fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

5.4 Further Information

Not available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable respiratory protective equipment. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated clothing should be thoroughly cleaned.



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6.2 Environmental precautions

Eliminate sources of ignition. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Disposal should be in accordance with local, state or national legislation. Ventilate area and wash spill site after material pick up is complete.

6.3 Methods and materials for containment and cleaning up

Evacuate the area. Adsorb spillages. Prevent liquid entering sewers, basements and any watercourses. Transfer to a container for disposal or recovery.

6.4 Reference to other sections

Collect mechanically and dispose of according to Section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Antiseptic, disinfectant

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits : No Occupational Exposure Limit assigned.

8.2 Exposure controls

Engineering Controls

Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures.

Personal protection equipment

Eye/face protection

Safety spectacles. Complete eye protection.

Contact lenses may represent a special hazard.

Have available eyewash bottle with clean water.

Skin protection

Wear suitable gloves. Preferred protection: nitrile gloves.

Respiratory protection

Where engineering controls are not fitted or inadequate wear suitable respiratory protective equipment. Facilities, conditions of use and the amount of material handled will determine the type of personal protective equipment required.

Environmental exposure controls

Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	Liquid
Colour.	Clear.
Odour	Odourless.
Odour threshold (ppm)	Not applicable.
pH (Value)	5.5 - 7.0
Melting point (°C)	Not applicable.
Boiling Point (°C)	Not available.
Flash point (°C)	Not available.
Flammability (solid, gas)	Not applicable.
Vapour pressure (mmHg)	Not available.
Vapour density (Air=1)	Not available.
Density (g/ml)	1.06-1.07
Solubility (Water)	Soluble.
Partition coefficient	Not available.
Auto ignition point (°C)	Not available.
Decomposition temperature (°C)	Not available.
Viscosity (mPa. s)	1.47 cSt (cm ² /s)
Explosive Properties	Not available.
Oxidising Properties	Not available.

9.2 Additional Information

The substance is produced, handled and marketed as aqueous solution, which prevents flammability.



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10. STABILITY AND REACTIVITY

10.1 Reactivity

Due to the cationic character of Chlorhexidine salts, they are chemically incompatible with anionic compounds. Keep away from sulfates, borates, bicarbonates, chlorides...

10.2 Chemical Stability

Stable under normal conditions.

10.3 Hazardous Reactions

None known.

10.4 Conditions to avoid

Keep away from heat, sources of ignition and direct sunlight.

10.5 Incompatible materials:

Keep away from strong acids, strong bases and oxidizing agents.
Chemically incompatible with anionic compounds.

10.6 Hazardous Decomposition Product(s)

Combustion or thermal decomposition will evolve toxic and irritant vapours.

11. TOXICOLOGICAL INFORMATION

11.1 General information

See Section: 2.

11.2 Information on toxicological effects

Acute toxicity

Ingestion

LD50 oral (rat) = 2000 mg/kg

Accidental ingestion may cause human health damage.

It is likely to result in irritation of the gastrointestinal tract.

Inhalation

No information available. May be harmful if inhaled.

Skin Contact

It is not expected to cause significant or prolonged irritation by skin contact.

Repeated exposure may cause dermal disturbances. It is not expected to cause systemic harmful effects after skin contact.

Eye Contact

May cause severe damage to eyes.

Skin Corrosion/Irritation

This material showed low primary skin irritation potential to rabbit skin.

Eczema and leg ulcer patients patch tested with 1% chlorhexidine digluconate solutions developed contact dermatitis. Topical applications of solutions in patients have caused urticaria, dyspnea and anaphylactic shock.

Eyes corrosion/irritation

Severe irritant to the eye. This material is considered to represent risk of serious damage to eyes.

Respiratory/skin sensitization

Some allergic reactions may develop after skin contact.

Mutagenicity

There is no evidence of mutagenic potential.

Carcinogenicity

There is no evidence that this product represents a carcinogenic risk under normal conditions of handling and use.

Reproductive toxicity

No evidence of reproductive toxicity or teratogenic potential.

STOT - single exposure

May cause irritation to the respiratory system.

STOT - repeated exposure

None known.

Aspiration hazard

None known.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity (Fish) 2,08 mg/L (as pure chlorhexidine digluconate)

Acute toxicity (Daphnia magna) 0,087 mg/l (as pure chlorhexidine digluconate)

Acute toxicity (Algae) 0,081 mg/l (as pure chlorhexidine digluconate)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in Soil

No data available

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Other adverse effects

Acutely toxic towards fish, acutely very toxic to daphnia magna and algae.



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13. DISPOSAL CONSIDERATIONS

Waste treatment methods	Bury on an authorised landfill site or incinerate under approved controlled conditions, using incinerators suitable for the disposal of noxious chemical waste.
Additional Information	Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

14.1 UN Number

ADR/RID :	3082
IMDG :	3082
IATA :	3082

14.2 UN Proper shipping name

ADR/RID :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORHEXIDINE DIGLUCONATE)
IMDG :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORHEXIDINE DIGLUCONATE)
IATA :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORHEXIDINE DIGLUCONATE)

14.3 Transport hazard class(es)

ADR/RID :	9
IMDG :	9
IATA :	9

14.4 Packaging Group

ADR/RID :	III
IMDG :	III
IATA :	III

14.5 Environmental hazards

ADR/RID :	Yes
IMDG :	Yes
IATA :	Yes

14.6 Special Precautions for User

Further Information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

15.3 The Components of this Product are reported in the following Inventories:

AICS (Australia)	On the inventory, or in compliance with the inventory
IECSC (China)	On the inventory, or in compliance with the inventory
KECI (Korea)	On the inventory, or in compliance with the inventory
NZIoC (New Zealand)	On the inventory, or in compliance with the inventory
PICCS (Philippines)	On the inventory, or in compliance with the inventory
TSCA (USA)	On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

16.1 GLOSSARY

H-statements:

H302: Harmful if Swallowed
H319: Causes serious eye irritation.
H400: Very toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

Risk phrases:

R41: Risk of serious damage to eyes.
R50+R53: Very toxic to aquatic organisms.

16.2 Additional Information

All information contained herein is provided for guidance only, and is offered in good faith and under the belief that it is accurate. The information in this Material Safety Data Sheet refers to the above product, but may not be valid for combination with other products or any other processes. Basic Pharma Life Science Pvt Ltd. makes no warranty of merchantability, or fitness for any particular purpose, or any other warranty, express or implied, regarding the accuracy or completeness of this information. The safety of this product, or the hazards related to its use. Users should make their own investigations to determine the suitability of the information or product for their particular purposes and on the condition that because of the nature of the product, they assume all risk with respect to it. In no event Basic Pharma Life Science Pvt Ltd shall be liable for any claims, losses, or damages or any third party or for lost profits or any special, direct, incidental or consequential damages arising from the use of this information or the product.