

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Skin and Hand Disinfectant; Chlorhexidine

1. Identification of the substance/mixture and of the company/undertaking:

1.1. Product identifiers

Product Name : Skin and Hand Disinfectant; Chlorhexidine
Trademark : Manochol CHX4
Product REF No : 6162

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

Preoperative hand antisepsis in health-care personnel to inactivate microorganisms (normal and transient flora) present on the hands and forearms.

1.3. Detailers of the supplier of the safety data sheet:

Company Name : GBL Gül Biyoloji Laboratuvarı Sanayi ve Ticaret Anonim Şirketi
Address : HQ: Serifali Mah. Hattat Sk. No:10 P.O.: 34775 Ümraniye İstanbul TÜRKİYE
Factory: Dudullu OSB Mah. İMES C Blok 305 Sk. No:16 P.O.: 34775 34775 Ümraniye İstanbul TÜRKİYE
Telephone : +90 216 364 15 00
Fax : +90 216 314 15 69
E-mail : export@gbl.com.tr

1.4. Emergency telephone number:

Company: +90 216 364 15 00 or contact your local emergency telephone number

2. Hazard identification:

2.1. Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008

Flammable liquids, Category 2; H225

Eye irritation, Category 2; H319

Specific target organ toxicity – single exposure, Category 3; H336

For the full text of the H-statements mentioned in this Section, see Section 16.

2.2. Label Elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word : Danger

Hazard statement(s) :

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Precautionary statement(s) :

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

Supplemental Hazard Statements : None.

2.3. Other hazards: None.

3. Composition/information of ingredients:

3.1. Substance:

Not applicable.

3.2. Mixture:

Component	Classification	Concentration
Chlorhexidine digluconate CAS No: 18472-51-0 EC No: 242-354-0	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	$\geq 1 - < 3\%$
Isopropyl alcohol CAS No: 67-63-0 EC No: 200-661-7	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	$\geq 65 - < 75\%$

For the full text of the H-statements mentioned in this Section, see Section 16.

4. First aid measures:

4.1. Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Remove the victim into fresh air. If respiratory irritation, dizziness, nausea or headache occurs, seek immediate medical attention. Apply artificial respiration if breathing stops.

In case of skin contact

No hazard. Remove contaminated clothing and wash skin with water. Launder contaminated clothing before use.

In case of eye contact

Rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists.

If swallowed

Give large amounts of water to drink. Do not induce vomiting. Contact a doctor.

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

No data available.

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

No data available.

5. Firefighting measures:

5.1. Extinguishing media

Suitable extinguishing media

Water spray, carbon dioxide, dry chemical powder or alcohol stable foam.

Unsuitable extinguishing media

No data available.

5.2. Special hazards arising from the substance or mixing

Thermal decomposition may produce toxic fumes of ammonia, hydrogen chloride and oxides of carbon and nitrogen.

5.3. Advice for firefighters

Special protective masks and protective clothing should be worn during fire fighting. Use a self-contained breathing apparatus.

5.4. Further information

No data available.

6. Accidental release measures:

6.1. Personal precautions, protective equipment and emergency procedures

Eliminate all possible sources of ignition. Make sure there is good ventilation. For personal protection see section 8.

6.2. Environmental precautions

Do not let the product enter drains.

6.3. Methods and materials for containment and cleaning up

Stop leaks if possible. Collect spillage with non-combustible absorbent materials (sand, soil) and place in waste containers in accordance with local/national regulations.

6.4. Reference to other sections

For disposal see section 13.

7. Handling and storage:

7.1. Precautions for safe handling

For industrial or professional use only. Keep away from heat/sparks/open flames/hot surfaces.
- No smoking. Use only non-sparking tools. Make sure there is good ventilation. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Ensure adequate and good ventilation. The tank must be cool and dry. Smoking, eating and drinking should be prohibited in the environment. Store the substance/preparation in its original container.

For the recommended storage temperature, see the product label.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls/personal protection:

8.1. Control parameters

Isopropyl alcohol [CAS No 67-63-0]:

OSHA PEL: TWA 400 ppm (980 mg/m³)

NIOSH REL: TWA 400 ppm (980 mg/m³)

NIOSH REL: STEL 500 ppm (1225 mg/m³)

Chlorhexidine digluconate [CAS No 18472-51-0]:

No data available.

8.2. Exposure controls

Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Personal protective equipment

Eye/face protection: Chemical goggles or safety glasses.

Skin protection: No hazard.

Body protection: Wear suitable working clothes.

Respiratory protection: None required under normal product handling conditions.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let the product enter drains.

9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Color	Light yellow.
Odor	Alcohol.
pH	6,0 ± 0,2
Melting point	No data available.
Boiling point	80°C – 100°C
Flash point	67 °F
Evaporation rate	No data available.
Flammability	No data available.
Upper/lower flammability or explosive limits	2%/12% volume
Vapor pressure	No data available.
Vapor density	No data available.
Density	0,86 ± 0,10
Water solubility	Soluble.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

9.2. Other safety information

No data available.

10. Stability and reactivity:

10.1. Reaction

No data available.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Storage in excess heat over a long period of time.

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

Thermal decomposition may produce toxic fumes of ammonia, hydrogen chloride and oxides of carbon and nitrogen.

11. Toxicological information:

11.1. Information on toxicological effects

Acute toxicity

Isopropyl alcohol [CAS No 67-63-0]:

LD50 Oral – rat – 5840 mg/kg

LD50 intraperitoneal – mouse – 933 mg/kg

LD50 Skin – rabbit – 13 g/kg

Chlorhexidine digluconate [CAS No 18472-51-0]:

LD50 Oral – rat – > 90 mg/kg

Skin corrosion/irritation

Not classified.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

Specific target organ toxicity – single exposure

Not classified.

Specific target organ toxicity – repeated exposure

Not classified.

Aspiration hazard

Not classified.

11.2. Additional information

No data available.

12. Ecological information:

12.1. Toxicity

Isopropyl alcohol [CAS No 67-63-0]:

LC50/96h Pimephales promelas: 9640 mg/L

EC50/48h Daphnia magna: 13299 mg/L

EC50/72h Desmodesmus subspicatus: > 1000 mg/L

Chlorhexidine digluconate [CAS No 18472-51-0]:

LC50/96h Brachydanio rerio: 3.6 mg/L

EC50/24h Daphnia magna: 4.2 mg/L

12.2. Persistence and degradability

Isopropyl alcohol [CAS No 67-63-0]:

Log Pow: 0.05 (at 25°C)

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

13. Disposal considerations:

13.1. Waste treatment methods:

Waste materials must be disposed of in accordance with Directive 2008/98/EC and other National and Local Regulations. Leave chemicals in original containers. Do not mix with other waste. Treat uncleaned containers as the product itself.

14. Transport information:

ADR/RID

ADR/RID Class	: 3
UN Number	: 1219
Packaging Group	: II
Propper Shipping Name	: ISOPROPANOL (ISOPROPYL ALCOHOL)
Label	: 3



Tunnel Code	: D/E
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IMDG

IMDG Class	: 3
UN Number	: 1219
Packaging Group	: II
Propper Shipping Name	: ISOPROPANOL (ISOPROPYL ALCOHOL)
EmS	: F-E; S-D

ICAO/IATA

ICAO/IATA Class	: 3
UN Number	: 1219
Packaging Group	: II
Propper Shipping Name	: ISOPROPANOL (ISOPROPYL ALCOHOL)

15. Regulatory information

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

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

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out.

16. Other information:

Full text of H-statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long-lasting effects.

Abbreviations:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS No	Chemical Abstracts Service number
EC No	European Inventory of Existing Commercial Chemical Substances
EC50	Effective concentration, 50 percent

EmS	Emergency Schedule
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Good
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
REL	Recommended exposure limit
RID	International Carriage of Dangerous Goods by Rail
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

Notice to Reader: The information contained herein is accurate to the latest knowledge and describes the product from the point of view of health and environmental protection as well as safe handling. The information presented in this SDS refers to the technical product only and will not apply to any processed product. Final determination of suitability of any materials is the sole responsibility of the user.