



Specialized in chemicals

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Material Safety Data Sheet

Chlorhexidine

Section 1: Chemical Product and Company Identification

Molecular formula: C₂₂H₃₀Cl₂N₁₀

CAS Nr: 55-56-1

EINECS: 200-238-7

Molecular weight: 505.45

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Chlorhexidine	55-56-1	100

Toxicological Data on Ingredients:

Section 3: Hazards Identification

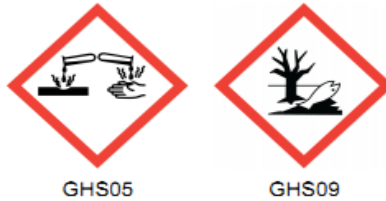
Appearance: white crystalline.

Target Organs: None known.

Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP):



Signal word (CLP): Danger

Section 4: First Aid Measures

Eyes: Rinse with water while holding the eyes wide open. Contact lenses should be removed. Obtain medical attention if pain, blinking or redness persists. Continue to rinse eye with clean water for 20-30 minutes, retracting eyelids often.

Skin: Rinse skin with water/shower. Wash with plenty of soap and water. Flush with lukewarm water for 15 minutes. If skin irritation persists, take medical advice.

Ingestion: Rinse mouth out with water. If you feel unwell, seek medical advice. Do NOT induce vomiting.

Inhalation: Move to fresh air in case of accidental inhalation. Assure fresh air breathing. Obtain medical attention if breathing difficulty persists. If breathing is difficult, give oxygen.

Section 5: Fire and Explosion Data

Special hazards arising from the substance or mixture: Fire hazard: Beware, risk of formation of toxic and corrosive gases

Extinguishing Media: Suitable extinguishing media: Small amounts, Use extinguishing media appropriate for surrounding fire; Large amounts, Not applicable.

Advice for firefighters: Precautionary measures fire: Small amounts: Use normal individual fire protective equipment. Large amounts: Not applicable.

Section 6: Accidental Release Measures

General measure: Avoid raising dust. Wear suitable protective clothing, gloves and eye or face protection. Avoid any direct contact with the product. Avoid all contact with skin, eyes, or clothing. Do not breathe dust/fume/gas/mist /spray. Large amounts: Not applicable.

Emergency procedures: Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Wear suitable protective clothing and gloves.

For emergency responders: No additional information available

Environmental precautions: No additional information available

Methods for cleaning up: Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Ensure waste is collected and contained. Clean thoroughly. Collect all waste in suitable and Labeled containers and dispose according to local legislation.

Section 7: Handling and Storage

Additional hazards when processed: Small amounts: See Heading 1. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended.

Precautions for safe handling: Handle and open container with care. See Heading 8. Do not handle until all safety

precautions have been read and understood. Avoid any direct contact with the product.

Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures. Small amounts: Material should be handled in a laboratory hood whenever possible.

Technical measures: Comply with applicable regulations

Storage conditions: To guarantee the quality and properties of the product, keep: dry, Keep in a cool, well-ventilated place away from heat. Store in original container, Store according to local legislation

Incompatible products: Strong oxidizing agents.

Section 8: Exposure Controls/Personal Protection

Appropriate engineering controls: Material should be handled in a laboratory hood whenever possible.

Personal protective equipment:



Hand protection: Gloves. Chemical resistant PVC gloves (to European standard EN 374 or equivalent).

Eye protection: Wear eye protection. DIN EN 166.

Respiratory protection: Quarter mask (DIN EN 140). Wear appropriate breathing apparatus if air renewal not sufficient to maintain dust under TLV.

Skin and body protection: Lab coat. Wear suitable protective clothing. DIN EN 13034.

Section 9: Physical and Chemical Properties

Physical State: Solid

Appearance: white crystalline.

Odor: No available.

pH: Not available.

Melting point: 132 °C ~136 °C

Boiling point: No available.

Freezing point: Not available.

Flash point: Not available.

Vapor Pressure: Not available.

Log Pow: 4,066 at 20 °C.

Viscosity, kinematic: Not available.

Explosive properties: Not available.

Explosive limits: Not available.

Relative density: Not available.

Evaporation Rate: Not available.

Decomposition Temperature: Not available.

Molecular Formula: C₂₂H₃₀Cl₂N₁₀

Molecular Weight: 505.45

Section 10: Stability and Reactivity Data

Reactivity: Stable under normal conditions

Chemical stability: No additional information available

Small amounts: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Large amounts: Not applicable.

Incompatible materials: Small amounts: None under normal use. Large amounts: Not applicable.

Hazardous decomposition products: When heated to decomposition, emits dangerous fumes. Large amounts: Not applicable.

Section 11: Toxicological Information

LD50 oral rat: 2515 mg/kg

Skin corrosion/irritation: Causes skin irritation.

Respiratory or skin sensitization: Causes serious eye damage.

Germ cell mutagenicity: Not classified

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity: May cause respiratory irritation.

Specific target organ toxicity: Not classified

Aspiration hazard: No data available

Potential Adverse human health effects and symptoms: Avoid any direct contact with the product. Small amounts: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. See first aid section of this material safety data sheet. Large amounts: Not applicable.

Section 12: Ecological Information

Ecology – general: Small amounts: See Heading 2.Hazardous waste. Use suitable disposal containers. **Large amounts:** Not applicable.

LC50 fishes 1: 1, 4 mg/l LC50-96 Hour – fis

Persistence and degradability: No additional information available

Bioaccumulative potential: Log Pow: 4066 at 20 °C

Mobility in soil: No additional information available

Results of PBT and vPvB assessment: No additional information available

Other adverse effects: No additional information available

Section 13: Disposal Considerations

Regional legislation (waste): Dispose in a safe manner in accordance with local/national regulations.

Waste disposal recommendations: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Section 14: Transport Information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

UN number: 3077

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport document description: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (E)

Transport hazard classes: Class (UN): 9; Class (IATA): 9; Class (IMDG): 9; Hazard labels (UN): 9

Packing group: Packing group (UN): III; Packing group (IMDG): III

Environmental hazards: Dangerous for the environment

Hazard identification number (No.) : 90

Classification code (UN): M7

Tunnel restriction code: E

Ship Safety Act: Miscellaneous dangerous substances & articles

Air transport: Civil Aeronautics Law: Miscellaneous dangerous substances & articles

Section 15: Other Regulatory Information

EU-Regulations: No REACH Annex XVII restrictions

National regulations: No additional information available

Chemical safety assessment: No additional information available

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 implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.