



Complying to 91/155/EC, 93/112/EC

Product Safety Data Sheet

Vetasept Chlorhexidine Hand Rub

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Vetasept Chlorhexidine Hand Rub
Product Code	XHG 015
Supplier	Animalcare Ltd, Common Road, Dunnington, York, YO19 5RU, Telephone No. +44 (0) 1904 487687 Fax No. +44 (0) 1904 487611 E-Mail: animalcare@animalcare.co.uk. Emergency Telephone +44 (0) 1904 487687 (daytime)

2. COMPOSITION / INFORMATION ON COMPONENTS

	CAS No.	FINECS No.
Chlorhexidine Gluconate	18472-51-0	242-354-0
Industrial Methylated Spirit	64-17-5	200-578-6
Other ingredients:		
Glycerin	56-81-5	
Purified Water		

3. HAZARDS IDENTIFICATION

Under normal conditions and use it is unlikely to cause any health hazard.

Main hazards: Highly flammable. Harmful by inhalation and if swallowed.

Main health hazards: May cause irritation to eyes. 300-400ml of liquid can be fatal if ingested.



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4. FIRST AID MEASURES

Skin contact:	Wash skin with plenty of water in the case of accidental contact
Eye Contact:	Rinse thoroughly immediately with plenty of water for at least 5 minutes keeping eyelid open. Obtain medical attention if irritation persists.
Inhalation:	Remove from exposure. Keep warm and rest. If there is any difficulty breathing give oxygen. Obtain medical attention.
Ingestion:	Wash mouth out with water. Do not induce vomiting. Have patient drink plenty of water in small sips (for dilution).

5. FIRE FIGHTING MEASURES

Extinguishing Agents:	Water spray, fog or alcohol resistant foam. Keep containers and surroundings cool with water.
Unsuitable Agents:	Do not use water jets.
Protective Equipment:	Wear self contained breathing apparatus for fire fighting.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear protective clothing.
Environmental Precautions:	Try to prevent the material from entering drains or water courses. Obtain advice of the Local Authority or waste disposal company.
Procedures for clean up:	Contain and absorb using earth, sand or inert material. Dispose of absorbed material in accordance with Local Authority regulations.

7. HANDLING AND STORAGE

Use in a well ventilated area. Avoid inhalation of vapour, eye contact and skin contact.

Storage area should be dry, well ventilated and away from sources of heat, ignition and direct sunlight.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Data for product is given below:

UK Occupational Exposure

Standards:

UKEH4O: OES 1000ppm (1900mg/m³) 8hr TWA

General Protection and Hygiene:

The usual precautionary measures for dealing with chemicals should be observed. No eating, drinking, smoking or snuffing of tobacco at work. Wash face and/or hands before break and end of work. Avoid contact with skin, eyes and clothing.

Respiratory Protection::

Respiratory protection if there is a risk of exposure to high vapour concentrations.

Eye Protection:

Chemical goggles

Body Protection:

No particular protective equipment required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Colour: Colourless

Odour: IMS

Viscosity: Not available

Solubility: Freely soluble in water

Density: 0.870 to 0.903 at 20°C

pH Value: Approximately 6.0 – 9.0

Flashpoint: 20 - 21°C

Ignition temp: 365°C

IMS is highly flammable and can form explosive mixtures with air. It is also volatile (boiling point

78°C. The vapour density is 1.59 times that of air.

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Hazardous

decomposition products:

Combustion will generate oxides of carbon, and hydrogen chloride. Avoid light effect/suns rays.

Hazardous reactions:

Avoid oxidising agents. Sulphuric Acid, Nitric Acid.



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11. TOXICOLOGICAL INFORMATION

Toxicological properties:

- Oral:** Harmful
LD50 (rat) > 2000 mg/kg (Chlorhexidine Gluconate Solution).
LD50 (rat) > 6200 to 17800 mg/kg (Industrial Methylated Spirit)
- Dermal:** Repeated contact may cause irritation, skin sensitisation.
- Inhalation:** Harmful
- Permissible concentrations (Air):**
UKEH40: OES 1000ppm (1900mg/m³) 8hr TWA.
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12. ECOLOGICAL INFORMATION

Mobility: This product is volatile and will partition to the air phase.
The product will dissolve rapidly in water. The product is poorly absorbed onto soils and sediments.

Persistence/

Degradability: This product is expected to be readily biodegradable.

Bio-accumulation:

Data for ethanol suggests that is unlikely to bio-accumulate. Data for Chlorhexidine Gluconate suggests that is likely to bio-accumulate.

Ecotoxicity: Data for ethanol is given below:

Tests on the following species gave a 48h > 9000 of LC50mg/l: fish/daphnia.
Toxicity threshold concentration (cell multiplication inhibition test) 5000mg/l: algae.
Bacterial inhibition tests show that the material is not inhibitory to biomass.

Data for chlorhexidine gluconate given below:

Aquatic toxicity

Acute fish toxicity: LC50 (96h) = 10.4mg/l: LCO (96h) = 10.0mg/l:

Brachydanio rerio, OECD 203.

Toxicity to crustaceans: EC50 (48h) > 0.05mg/l < 0.10mg/l, Daphnia pulex, DEV, DIN 38412, T.11.

Toxicity to algae: IC50 (72h) = 0.011mg/l. Scenedesmus subspicatus, OECD 201.

Subacute toxicity to algae: IC50 (10 days) = 4.4mg/l, green algae.

Behaviour in water treatment plants:



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Pseudomonas putida, beginning obstruction of cell multiplication with approximately 3mg/1, DEV, DIN 38412, T.8

Further ecological information: COD value 219000mg/1. BOD5 value: 0mg/1

13. DISPOSAL CONSIDERATIONS

Product Disposal: Dispose of in accordance with the regulations issued by the appropriate local authorities.

Container Disposal: Do not cut, puncture or weld on or near the container. Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be disposed of by land fill or incinerated as appropriate. Do not incinerate closed containers.

14. TRANSPORT INFORMATION

Land Transport ADR/RID

ADR/RID Class: 3
Item: 3 (b)
UN-Number: 1987
Hazard Label: 33
Description of Goods: Ethanol solution

Maritime Transport IMDG

IMDG Class: 3.2
UN Number: 1987
Packaging Group: II
EMS Number: 3-06
MFAG: 305
Marine Pollutant: YES
Proper Shipping Name: Alcohols (Contains ethanol)

Air Transport ICAO-TI and IATA-DGR

ICAO/IATA Class: 3
UN/ID Number: 1987
Packaging Group: II
Proper Shipping Name: Alcohols N.O.S (Contains ethanol).



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15. REGULATORY INFORMATION

Classification: Harmful, Flammable

Labelling: Flammable



Symbol(s):

R-Phrases:

R11 Highly Flammable

R20/22 Harmful by inhalation and if swallowed.

R36 Irritation to eyes.

S-Phrases:

S1/2 Keep locked up and out of reach of children.

S7 Keep containers tightly closed.

S16 Keep away from sources of ignition – No Smoking.

S24 Avoid contact with skin.

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 label where possible).

16. OTHER INFORMATION

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of their use.
