

HYDREX SURGICAL SCRUB**Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Product name : HYDREX SURGICAL SCRUB
Product code : 110825E
Use of the Substance/Mixture : Skin antiseptic
Substance type: : Mixture

For professional users only.

Product dilution information : No dilution information provided.

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

Identified uses : Drug
Recommended restrictions on use : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : Ecolab Ltd.
PO Box 11; Winnington Avenue
Northwich, Cheshire, United Kingdom CW8 4DX
+ 44 (0)1606 74488
ccs@ecolab.com

1.4 Emergency telephone number

Emergency telephone number : Food & Beverage, Institutional, Agriculture, Textile Hygiene:
Northwich: +44 (0)1606 74488
Healthcare Leeds: +44 (0)113 232 2480
Healthcare Swansea: +44 (0)1252 717616
Poison Information Centre telephone number : Not Available
Date of Compilation/Revision : 14.10.2014
Version : 1.0

Section: 2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Serious eye damage/eye irritation , Category 1 H318
Acute aquatic toxicity , Category 1 H400

Classification (67/548/EEC, 1999/45/EC)

Xi; IRRITANT R36
N; DANGEROUS FOR THE ENVIRONMENT R50

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Although the product is not classified as dangerous, we recommend you to take the safety advice given below into account.

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H318 Causes serious eye damage.
H400 Very toxic to aquatic life.

Precautionary Statements : **Prevention:**
P273 Avoid release to the environment.
Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.

Hazardous components which must be listed on the label:
Chlorhexidine gluconate

2.3 Other hazards

None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. REACH No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration: [%]
Alkylamineoxides	70592-80-2 274-687-2	Xi; R36-R38	Acute toxicityCategory 4; H302 Serious eye damage/eye irritationCategory 2; H319 Skin corrosion/irritationCategory 2; H315	>= 3 - < 5
methanol	67-56-1 200-659-6	F-T; R11- R23/24/25- R39/23/24/25	Flammable liquidsCategory 2; H225 Acute toxicityCategory 3; H301	>= 0.1 - < 0.25

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			Acute toxicityCategory 3; H331 Acute toxicityCategory 3; H311 Specific target organ toxicity - single exposureCategory 1; H370	
Chlorhexidine gluconate	18472-51-0 242-354-0	N-Xn-Xi-T; R22-R41- R50-R23	Acute toxicityCategory 4; H302 Acute toxicityCategory 2; H330 Serious eye damage/eye irritationCategory 1; H318 Acute aquatic toxicityCategory 1; H400	>= 3 - < 5
WEL substance :				
glycerin	56-81-5 200-289-5		Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.	>= 10 - < 20
ethanol	64-17-5 200-578-6 01-2119457610-43	F; R11	Flammable liquidsCategory 2; H225	>= 2.5 - < 5

For the full text of the R-phrases mentioned in this Section, see Section 16.

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

Section: 4. FIRST AID MEASURES

4.1 Description of first aid measures

- In case of eye contact : Rinse with water.
- In case of skin contact : Rinse with water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

Section: 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Fire Hazard
Keep away from heat and sources of ignition.
Flash back possible over considerable distance.

Hazardous combustion products : Decomposition products may include the following materials:
Carbon oxides
nitrogen oxides (NOx)
Sulphur oxides
Oxides of phosphorus

5.3 Advice for firefighters

Special protective equipment for firefighters : Use personal protective equipment.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel : Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Advice for emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

6.4 Reference to other sections

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See Section 1 for emergency contact information.
 For personal protection see section 8.
 See Section 13 for additional waste treatment information.

Section: 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
 Hygiene measures : No specific measures identified.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep away from heat and sources of ignition. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
 Storage temperature : 0 °C to 25 °C

7.3 Specific end uses

Specific use(s) : Drug

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

CAS-No.	Components	Value type (Form of exposure)	Control parameters	Update	Basis
64-17-5	ethanol	TWA	1,000 ppm 1,920 mg/m3	2005-04-06	UKCOSSTD
67-56-1	methanol	TWA	200 ppm 266 mg/m3	2005-04-06	UKCOSSTD
		STEL	250 ppm 333 mg/m3	2005-04-06	UKCOSSTD

DNEL

methanol	:	End Use: Workers Exposure routes: Dermal Potential health effects: Acute systemic effects Value: 40 mg/cm2
	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 260 mg/m3
	:	End Use: Workers

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	<p>Exposure routes: Inhalation Potential health effects: Acute local effects Value: 260 mg/m3</p>
	<p>End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 40 mg/cm2</p>
	<p>End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 260 mg/m3</p>
	<p>End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 260 mg/m3</p>
	<p>End Use: Consumers Exposure routes: Dermal Potential health effects: Acute systemic effects Value: 8 mg/cm2</p>
	<p>End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 50 mg/m3</p>
	<p>End Use: Consumers Exposure routes: Ingestion Potential health effects: Acute systemic effects Value: 8 ppm</p>
	<p>End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 50 mg/m3</p>
	<p>End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 8 mg/cm2</p>
	<p>End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 50 mg/m3</p>
	<p>End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 8 ppm</p>
	<p>End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 50 mg/m3</p>

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PNEC	
methanol	: Fresh water Value: 154 mg/l
	: Marine water Value: 15.4 mg/l
	: Intermittent use/release Value: 1540 mg/l
	: Sediment Value: 570.4 mg/kg
	: Soil Value: 23.5 mg/kg
	: Sewage treatment plant Value: 100 mg/l

8.2 Exposure controls

Appropriate engineering controls

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : No specific measures identified.

Eye/face protection (EN 166) : No special protective equipment required.

Hand protection (EN 374) : No special protective equipment required.

Skin and body protection (EN 14605) : No special protective equipment required.

Respiratory protection (EN 143, 14387) : None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, 89/686/EEC), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Environmental exposure controls

General advice : Consider the provision of containment around storage vessels.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : clear, red

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Odour	: Perfumes, fragrances
pH	: 6.0, 100 %
Flash point	: 70 °C closed cup
Odour Threshold	: no data available
Melting point/freezing point	: no data available
Initial boiling point and boiling range	: no data available
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: 1.03
Water solubility	: soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

9.2 Other information

no data available

Section: 10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

None known.

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10.6 Hazardous decomposition products

Decomposition products may include the following materials:

Carbon oxides
nitrogen oxides (NO_x)
Sulphur oxides
Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Toxicity

Acute oral toxicity : Acute toxicity estimate : > 2,000 mg/kg
Acute inhalation toxicity : There is no data available for this product.
Acute dermal toxicity : Acute toxicity estimate : > 2,000 mg/kg
Skin corrosion/irritation : There is no data available for this product.
Serious eye damage/eye irritation : There is no data available for this product.
Respiratory or skin sensitization : There is no data available for this product.
Carcinogenicity : There is no data available for this product.
Reproductive effects : There is no data available for this product.
Germ cell mutagenicity : There is no data available for this product.
Teratogenicity : There is no data available for this product.
STOT - single exposure : There is no data available for this product.
STOT - repeated exposure : There is no data available for this product.
Aspiration toxicity : There is no data available for this product.

Components

Acute oral toxicity : Alkylamineoxides
LD50 rat: 1,041 mg/kg

Chlorhexidine gluconate
LD50 rat: 1,445 mg/kg

glycerin
LD50 rat: 18,300 mg/kg

ethanol

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LD50 rat: 10,470 mg/kg

Components

Acute inhalation toxicity : Chlorhexidine gluconate
4 h LC50 : 0.365 mg/l

ethanol
4 h LC50 rat: 117 mg/l

Components

Acute dermal toxicity : Chlorhexidine gluconate
LD50 rabbit: > 2,000 mg/kg

glycerin
LD50 rabbit: 23,000 mg/kg

ethanol
LD50 rabbit: 15,800 mg/kg

Potential Health Effects

Eyes : Causes serious eye damage.
Skin : Health injuries are not known or expected under normal use.
Ingestion : Health injuries are not known or expected under normal use.
Inhalation : Health injuries are not known or expected under normal use.
Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : Redness, Pain, Corrosion
Skin contact : No symptoms known or expected.
Ingestion : No symptoms known or expected.
Inhalation : No symptoms known or expected.

Section: 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Environmental Effects : Very toxic to aquatic life.

Product

Toxicity to fish : no data available
Toxicity to daphnia and other aquatic invertebrates : no data available
Toxicity to algae : no data available

Components

Toxicity to fish : Alkylamineoxides

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96 h LC50 Fish : 2.6 mg/l

methanol
96 h LC50: 15,400 mg/l

glycerin
96 h LC50 Fish : 855 mg/l

ethanol
96 h LC50 Fish : 11,000 mg/l

Components

Toxicity to daphnia and other aquatic invertebrates : methanol
48 h EC50: > 10,000 mg/l

Chlorhexidine gluconate
48 h EC50: 0.06 mg/l

Components

Toxicity to algae : methanol
72 h EC50: 22,000 mg/l

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

Product

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in

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compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

European Waste Catalogue : 200129* - detergents containing dangerous substances

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

14.1 UN number : 3082
14.2 UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine digluconate)
14.3 Transport hazard class(es) : 9
14.4 Packing group : III
14.5 Environmental hazards : Yes
14.6 Special precautions for user : None

Air transport (IATA)

14.1 UN number : 3082
14.2 UN proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (Chlorhexidine digluconate)
14.3 Transport hazard class(es) : 9
14.4 Packing group : III
14.5 Environmental hazards : Yes
14.6 Special precautions for user : None

Sea transport (IMDG/IMO)

14.1 UN number : 3082
14.2 UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine digluconate)
14.3 Transport hazard class(es) : 9
14.4 Packing group : III
14.5 Environmental hazards : Yes
14.6 Special precautions for user : None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable.

Section: 15. REGULATORY INFORMATION

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

National Regulations

Take note of Dir 94/33/EC on the protection of young people at work.

Other regulations : The Chemicals (Hazard Information and Packaging for Supply) Regulations.
The Control of Substances Hazardous to Health Regulations.
Health and Safety at Work Act.

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

Section: 16. OTHER INFORMATION

Full text of R-Phrases

R11	Highly flammable.
R22	Harmful if swallowed.
R23	Toxic by inhalation.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R36	Irritating to eyes.
R38	Irritating to skin.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.

Full text of H-Statements

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H370	Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H400	Very toxic to aquatic life.

Full text of other abbreviations

Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a

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guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.