

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

1.1 Product identifier

ECSLAB

Product name	:	DEKASEPTOL GEL
Product code	:	104258E
Use of the Substance/Mixture	:	Disinfectant
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	:	Medical devices . Manual process
Recommended restrictions on use	:	Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

1.4 Emergency telephone number

Emergency telephone	:	+441618841235
number		+32-(0)3-575-5555 Trans-European

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Section: 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Chronic aquatic toxicity, Category 2

H411

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms



DEKASEPTOL GEL		
Hazard Statements	: H411	Toxic to aquatic life with long lasting effects.
Precautionary Statements	: Prevention: P273	Avoid release to the environment.

2.3 Other hazards

None known.
Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration:
	EC-No.	REGULATION (EC) No 1272/2008	[%]
	REACH No.		
Dioctyl dimethyl ammonium chloride	5538-94-3 226-901-0 01-2120767055-53- 0000	Acute toxicity Category 3; H301 Acute toxicity Category 2; H330 Acute toxicity Category 3; H311 Skin corrosion Sub-category 1B; H314 Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 1; H410	>= 0.25 - < 0.5
benzalkonium chloride	68424-85-1 270-325-2 01-2119983287-23	Acute toxicity Category 4; H302 Skin corrosion Category 1B; H314 Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 1; H410	< 0.1
glucoprotamin	164907-72-6 403-950-8 01-0000015357-68	Acute toxicity Category 4; H302 Acute toxicity Category 2; H330 Skin corrosion Category 1B; H314 Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400	< 0.1
Substances with a workp	lace exposure limit :		
2-(2-butoxyethoxy)ethanol		Eye irritation Category 2; H319	>= 0.5 - < 1
For the full text of the H-S		in this Section, see Section 16.	
	SURES		

4.1 Description of first aid measures

In case of eye contact	: Rinse with plenty of water.
In case of skin contact	: Rinse with plenty of 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

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

DEKASEPTOL GEL

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.
Unsuitable extinguishing media	:	None known.

5.2 Special hazards arising from the substance or mixture

	Specific hazards during firefighting	:	Not flammable or combustible.
	Hazardous combustion products	:	Depending on combustion properties, decomposition products may include following materials: Carbon oxides nitrogen oxides (NOx) Hydrogen chloride
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

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 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	:	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

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	:	Use only with adequate ventilation. Wash hands thoroughly after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	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) : Medical devices . Manual process

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-(2- butoxyethoxy)ethanol	112-34-5	TWA	10 ppm 67.5 mg/m3	UKCOSSTD
		STEL	15 ppm 101.2 mg/m3	UKCOSSTD

DNEL

2-(2-butoxyethoxy)ethanol	:	End Use: Workers
		Exposure routes: Inhalation
		Potential health effects: Short-term - local
		Value: 101.2 mg/m3
		End Use: Workers
		Exposure routes: Dermal
		Potential health effects: Long-term systemic effects

Value: 20 mg/kg
End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 67.5 mg/m3
End Use: Workers Exposure routes: Inhalation Potential health effects: Short-term - local Value: 67.5 mg/m3

PNEC

PNEC		
2-(2-butoxyethoxy)ethanol	:	Fresh water
		Value: 1 mg/l
		Marine water
		Value: 0.1 mg/l
		Intermittent use/release
		Value: 3.9 mg/l
		Sewage treatment plant
		Value: 200 mg/l
		Sediment
		Value: 4 mg/kg
		Soil
		Value: 0.4 mg/kg
		Oral
		Value: 56 mg/kg

8.2 Exposure controls

Appropriate engineering controls

Engineering measures	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measu	res	
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.
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, (EU) 2016/425), 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 containmen	t around storage vessels.
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Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Colour:blueOdour:citruspH:10.0, 100 %Flash point:Not applicable.Odour Threshold:Not applicable and/or not determined for the mixtureMelting point/freezing point:Not applicable and/or not determined for the mixtureInitial boiling point and boiling range:Not applicable and/or not determined for the mixtureFlammability (solid, gas):Not applicable and/or not determined for the mixtureUpper explosion limit:Not applicable and/or not determined for the mixtureLower explosion limit:Not applicable and/or not determined for the mixtureVapour pressure:Not applicable and/or not determined for the mixtureRelative density:Not applicable and/or not determined for the mixtureRuto-ignition temperature:Not applicable and/or not determined for the mixtureAuto-ignition temperature:Not applicable and/or not determined for the mixtureThermal decomposition:Not applicable and/or not determined for the mixtureViscosity, kinematic:Not applicable and/or not determined for the mixtureViscosity, kinematic:Not applicable and/or not determined for the mixtureCotalizing properties:Not applicable	Appearance	:	gel
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Explosive properties : Not applicable and/or not determined for the mixture	Thermal decomposition	:	Not applicable and/or not determined for the mixture
	Viscosity, kinematic	:	Not applicable and/or not determined for the mixture
Oxidizing properties : The substance or mixture is not classified as oxidizing.	Explosive properties	:	Not applicable and/or not determined for the mixture
	Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

9.2 Other information

Not applicable and/or not determined for the mixture

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

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Depending on combustion properties, decomposition products may include following materials: Carbon oxides nitrogen oxides (NOx) Hydrogen chloride

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure	:	Inhalation, Eye contact, Skin contact
Product		
Acute oral toxicity	:	Acute toxicity estimate : > 2,000 mg/kg
Acute inhalation toxicity	:	4 h Acute toxicity estimate : > 20 mg/l Test atmosphere: vapour
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.

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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	: Dioctyl dimethyl ammonium chloride LD50 rat: 238 mg/kg
	benzalkonium chloride LD50 rat: 344 mg/kg
	2-(2-butoxyethoxy)ethanol LD50 rat: 3,306 mg/kg
Components	
Acute inhalation toxicity	 Dioctyl dimethyl ammonium chloride 4 h LD50 rat: 0.07 mg/l Test atmosphere: dust/mist
	glucoprotamin 4 h LC50 rat: 0.3 mg/l Test atmosphere: dust/mist
Components	
Acute dermal toxicity	: Dioctyl dimethyl ammonium chloride LD50 rabbit: 259 mg/kg
	benzalkonium chloride LD50 rabbit: 3,340 mg/kg
	2-(2-butoxyethoxy)ethanol LD50 rabbit: 2,764 mg/kg
Potential Health Effects	
Eyes	: Health injuries are not known or expected under normal use.
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 exp	osure
Eye contact	: No symptoms known or expected.
Skin contact	: No symptoms known or expected.

DEKASEPTOL GEL

Ingestion	:	No symptoms known or expected.
Inhalation	:	No symptoms known or expected.

Section: 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Environmental Effects	:	Toxic to aquatic life with long lasting effects.
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	:	Dioctyl dimethyl ammonium chloride 96 h LC50 Oncorhynchus mykiss (rainbow trout): 0.35 mg/l
		2-(2-butoxyethoxy)ethanol 96 h LC50 Fish: 1,300 mg/l
Components		
Toxicity to daphnia and other aquatic invertebrates	:	Dioctyl dimethyl ammonium chloride 96 h LC50: 0.073 mg/l
		benzalkonium chloride 48 h EC50 Daphnia magna (Water flea): 0.016 mg/l
Components		
Toxicity to algae	:	Dioctyl dimethyl ammonium chloride 72 h EC50 Pseudokirchneriella subcapitata (algae): 0.122 mg/l
		glucoprotamin 72 h EC50: > 0.01 mg/l

12.2 Persistence and degradability

Product	
Biodegradability	: The surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC
Components	
Biodegradability	: Dioctyl dimethyl ammonium chloride Result: Poorly biodegradable
	benzalkonium chloride Result: Biodegradable
	glucoprotamin Result: Readily biodegradable.

2-(2-butoxyethoxy)ethanol Result: Readily biodegradable.

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 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. Dispose of in accordance with local, state, and federal regulations.
Guidance for Waste Code selection	Organic wastes containing not dangerous substances with concentration >= 0.1%. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations.

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 : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, name N.O.S. (1-octanaminium, n,n-dimethyl-n-octyl-, chloride) 14.3 Transport hazard : 9 class(es) 14.4 Packing group : 111 14.5 Environmental hazards : Yes 14.6 Special precautions for : None user Air transport (IATA) 14.1 UN number : 3082 14.2 UN proper shipping : Environmentally hazardous substance, liquid, n.o.s. name (1-octanaminium, n,n-dimethyl-n-octyl-, chloride) : 9 14.3 Transport hazard class(es) : 111 14.4 Packing group 14.5 Environmental hazards : Yes 14.6 Special precautions for : None user Sea transport (IMDG/IMO) 14.1 UN number : 3082 14.2 UN proper shipping : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. name (1-octanaminium, n,n-dimethyl-n-octyl-, chloride) 14.3 Transport hazard : 9 class(es) 14.4 Packing group : 111 14.5 Environmental hazards : Yes 14.6 Special precautions for : None user 14.7 Transport in bulk : Not applicable. according to Annex II of MARPOL 73/78 and the IBC Code

Section: 15. REGULATORY INFORMATION

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

according to Detergents Regulation EC 648/2004	:	less than 5 %: Cationic surfactants, Non-ionic surfactants Other constituents: Perfumes Preservation agents: glucoprotamin
		glucoprotamin
		Allergens: Limonene

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

No Chemical Safety Assessment has been carried out on the product.

Section: 16. OTHER INFORMATION

Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

Classification	Justification
Chronic aquatic toxicity 2, H411	Calculation method

Full text of H-Statements

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS – Australian Inventory of Chemical Substances; ASTM – American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL -Domestic Substances List (Canada); ECHA – European Chemicals Agency; EC-Number – European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS – Globally Harmonized System; GLP – Good Laboratory Practice; IARC – International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 – Half maximal inhibitory concentration; ICAO – International Civil Aviation Organization; IECSC – Inventory of Existing Chemical Substances in China; IMDG – International Maritime Dangerous Goods; IMO – International Maritime Organization; ISHL – Industrial Safety and Health Law (Japan); ISO – International Organisation for Standardization; KECI – Korea Existing Chemicals Inventory; LC50 – Lethal Concentration to 50 % of a test population; LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD – Organization for Economic Co-operation and Development; OPPTS – Office of Chemical Safety and Pollution Prevention; PBT – Persistent, Bioaccumulative and Toxic substance; PICCS Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR – (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID – Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT – Self-Accelerating Decomposition Temperature; SDS – Safety Data Sheet;

TCSI – Taiwan Chemical Substance Inventory; TRGS – Technical Rule for Hazardous Substances; TSCA – Toxic Substances Control Act (United States); UN – United Nations; vPvB – Very Persistent and Very Bioaccumulative

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 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.

Annex: Exposure Scenarios

Exposure Scenario: Medical devices . Manual process

Life Cycle Stage	:	Widespread use by professional workers	
Product category	:	PC35	Washing and cleaning products (including solvent based products)

Contributing scenario controlling environmental exposure for:

Environmental release category	:	ERC8a	Wide dispersive indoor use of processing aids in open systems
Daily amount per site	:	7.5 kg	
Type of Sewage Treatment Plant	:	Municipal s	ewage treatment plant

Contributing scenario controlling worker exposure for:

Process category	:	PROC10	Roller application or brushing	
Exposure duration	:	480 min		
Operational conditions and risk management measures	:	Indoor		
		Local Exha	ust Ventilation is not required	
General ventilation		Ventilation	rate per hour	1
Skin Protection	:	No		
Respiratory Protection		No		
	•			

Contributing scenario controlling worker exposure for:

Process category	:	PROC8a	Transfer of substance or preparation (chargi discharging) from/ to vessels/ large containe dedicated facilities	
Exposure duration	:	60 min		
Operational conditions and risk management measures	:	Indoor		
		Local Exha	ust Ventilation is not required	
General ventilation		Ventilation I	rate per hour	1
Skin Protection	:	Yes: See Se	ection 8	
Respiratory Protection	:	No		