



Product name:	FeF Benzalkonium chloride Solution 17% USP/NF	Page:	1/11
Revision:	2022-12-05	Print date:	2023-06-28
		SDS-ID:	EU-EN/1.1

FeF Benzalkonium chloride Solution 17% USP/NF

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier	
Product name:	

Container size: 25 kg

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

Application:	Pharmaceutical industry
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1.3. Details of the supplier of the safety data sheet

<u>Supplier:</u>	Novo Nordisk Pharmatech A/S
	Københavnsvej 216
	DK-4600 Køge
	Tel:+45 56 67 10 00
	www.novonordiskpharmatech.com
Responsible for safety data	nnprinfo@novonordiskpharmatech.com

sheet authoring:

1.4. Emergency telephone number

<u>Emergency telephone:</u> National Poison Control Centres are available in Member Countries.

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture		
<u>CLP:</u>	Skin Corr. 1B;H314 - Eye Dam. 1;H318 - Aquatic Acute 1;H400 - Aquatic Chronic 2;H411	
2.2. Label elements		



	Danger
<u>Contains:</u>	Quaternary ammonium compounds, benzyl C12-16 (even numbered)- alkyldimethyl chlorides
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
P262	Do not get in eyes, on skin, or on clothing.
P273	Avoid release to the environment.
P280	Wear protective clothing, gloves, eye and face protection.
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/doctor.
2.3. Other hazards	
<u>PBT/vPvB:</u>	This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

The product contains: Aqueous solution of quaternary ammonium compounds. This product is a UVCB substance and its composition will be variable, so reported properties may vary or require a range of values to describe them.

CLP:

<u>%:</u>	CAS-No.:	<u>EC No.:</u>	<u>REACH Reg.</u> <u>No:</u>	Chemical name:	Hazard classification:	<u>Notes:</u>
17	68424-85-1	939-253-5	01-2119965180- 41-0009	Quaternary ammonium compounds, benzyl C12-16 (even numbered)- alkyldimethyl chlorides	Acute Tox. 4;H302 Skin Corr. 1B;H314 Eye Dam. 1;H318 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	

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<u>Chemical name:</u>	<u>SCL</u>	<u>M (ac)</u>	<u>M (chr)</u>	ATE(o) (mg/kg bw)	<u>ATE(d)</u> (mg/kg bw)	<u>ATE(i)</u> (vapour, mg/L)
Quaternary ammonium compounds, benzyl C12-16 (even numbered)-alkyldimethyl chlorides		10) 1		-	
References:	The full text for all h	azard sta	atements	is display	ed in sectio	on 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures			
Inhalation:	Move into fresh air and keep at rest. Inhalation of aerosols: Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring along these instructions.		
<u>Skin contact:</u>	Remove contaminated clothes and rinse skin thoroughly with water. In case of eczema or other skin disorders: Seek medical attention and bring along these instructions.		
Eye contact:	Immediately flush with plenty of water. Remove any contact lenses and open eyelids widely. Call an ambulance. Continue flushing during transport to hospital. Bring along these instructions.		
Ingestion:	Immediately rinse mouth and drink plenty of water. Call an ambulance. Bring along these instructions. Do not induce vomiting.		
4.2. Most important symptoms and effects, both acute and delayed			

<u>Symptoms/effects:</u> See section 11 for more detailed information on health effects and symptoms.

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

<u>Medical attention/treatments:</u> Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Specific hazards:	During fire, gases hazardous to health may be formed.
	Water used for fire extinguishing, which has been in contact with the product,
	may be corrosive.

5.3. Advice for firefighters

Protective equipment for fire-	Use air-supplied respirator during fire fighting. Severe corrosive hazard. Wear
fighters:	chemical protection suits.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures		
Personal precautions:	Avoid inhalation of spray mist and contact with skin and eyes. Follow precautions for safe handling described in this safety data sheet.	
6.2. Environmental precaution	<u>15</u>	
Environmental precautions:	Do not discharge into drains, water courses or onto the ground.	
6.3. Methods and material for containment and cleaning up		
Methods for cleaning up:	Absorb spillage with suitable absorbing material. Flush contaminated area with plenty of water.	
6.4. Reference to other sections		
References:	For personal protection, see section 8. For waste disposal, see section 13.	

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice:	Observe good chemical hygiene practices. Avoid inhalation of spray mists and contact with skin and eyes. Immediately change drenched clothing.	
Technical measures:	Keep the workplace clean. Use work methods which minimise aerosol production.	
Technical precautions:	Provide easy access to water supply and eye wash facilities.	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures for safe storage:	No special precautions.	
Storage conditions:	Store in closed original container. Do not store near heat sources or expose to excessive temperatures.	
7.3. Specific end use(s)		
<u>Specific use(s):</u>	Not relevant.	

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No occupational exposure limit assigned. Please note that there may be national occupational exposure limits.

8.2. Exposure controls

Engineering measures:	Provide adequate ventilation. Minimise the risk of formation of aerosols. An eye wash bottle must be available at the work site.
Personal protection:	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Respiratory equipment:	Risk of inhalation of spray mist: Use respiratory equipment with particle filter, type P2. The use of filtering respirators should be limited to max. 3 hours per day.
Hand protection:	Wear protective gloves. Nitrile gloves are recommended. The most suitable glove must be chosen in collaboration with the supplier of gloves, who can inform about the breakthrough time of the glove material.
Eye protection:	Wear goggles/face shield.
Skin protection:	Wear apron or protective clothing in case of splashes.
Hygiene measures:	Wash hands after contact.
Environmental Exposure Controls:	Not available.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties			
Physical state:	Liquid.		
<u>Colour:</u>	Colourless. / Yellowish.		
<u>Odour:</u>	Not available.		
<u>pH:</u>	6-8		
Melting point / freezing point:	Not available.		
Boiling point:	Not available.		
Flash point:	Not available.		
Explosion limits:	Not relevant.		
Vapour pressure:	Not available.		
Relative density:	~ 0,99		
<u>Solubility:</u>	Miscible with: Water and lower alcohols.		
Viscosity:	Not available.		
9.2. Other information			
Other data:	Not relevant.		

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity		
Reactivity:	None known.	
10.2. Chemical stability		
<u>Stability:</u>	Stable under normal temperature conditions.	
10.3. Possibility of hazardous	reactions	
Hazardous Reactions:	None known.	
10.4. Conditions to avoid		
Conditions/materials to avoid:	Heating.	
10.5. Incompatible materials		
Incompatible materials:	Strong oxidizing substances.	
10.6. Hazardous decomposition products		
Hazardous decomposition products:	If heated to more than 150°C, the following substance(s) will be released: Benzyl chloride and Methyl chloride.	

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity (Oral):	Based on available data, the classification criteria are not met.
Acute Toxicity (Dermal):	Based on available data, the classification criteria are not met.
Acute Toxicity (Inhalation):	Based on available data, the classification criteria are not met.
Skin Corrosion/Irritation:	Causes severe skin burns and eye damage.
Serious eye damage/irritation:	Causes serious eye damage.
<u>Respiratory or skin</u> sensitisation:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive Toxicity:	Based on available data, the classification criteria are not met.
STOT - Single exposure:	Based on available data, the classification criteria are not met.
STOT - Repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.
Inhalation:	Inhalation of aerosols: Burning pain. Increased flow of saliva (froth at the mouth) and vomiting, sometimes with bloody vomit. Restlessness, confusion and weakness, laboured breathing, bluish colouring of skin and mucous membranes, shock and unconsciousness.
Skin contact:	Causes burns.
Eye contact:	Corrosive. Immediate first aid is necessary. Risk of serious damage to eyes.
Ingestion:	Causes burns. Burning pain. Increased flow of saliva (froth at the mouth) and vomiting, sometimes with bloody vomit. Restlessness, confusion and weakness, laboured breathing, bluish colouring of skin and mucous membranes, shock and unconsciousness.
Specific effects:	None known.
Toxicological data:	Quaternary ammonium compounds, benzyl C12-16 (even numbered)- alkyldimethyl chlorides: LD50 (oral, rat): 795 mg/kg
11.2. Information on other haze	ards

Endocrine disruptingThe product does not contain any substance identified as having endocrine
disrupting properties.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity:

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Quaternary ammonium compounds, benzyl C12-16 (even numbered)alkyldimethyl chlorides: M-factor (acute): 10 M-factor (chronic): 1 LC50 (Fish): $0,1 < LC50 \le 1 mg/l$ (96 hours) EC50 (Daphnia): $0,01 < EC50 \le 0,1 mg/l$ (48 hours) $0,001 < NOEC \le 0,01 mg/l$

12.2. Persistence and degradability

<u>Degradability:</u> The product is readily biodegradable.

12.3. Bioaccumulative potential

<u>Bioaccumulative potential:</u> Bioaccumulation: Is not expected to be bioaccumulable.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT/vPvB:

This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

<u>Endocrine disrupting</u> The product does not contain any substance identified as having endocrine disrupting properties.

12.7. Other adverse effects

Other adverse effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste.

Waste from residues: EWC-code: 07 05 07

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SECTION 14: TRANSPOR	T INFORMATION
14.1. UN number	
<u>UN-No:</u>	3265
14.2. UN proper shipping nam	<u>10</u>
Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Benzalkonium chloride)
14.3. Transport hazard class(es)
<u>Class:</u>	8
14.4. Packing group	
<u>PG:</u>	II
14.5. Environmental hazards	
Marine pollutant:	Yes.
Environmentally Hazardous substance:	Yes.
14.6. Special precautions for u	<u>user</u>
Special precautions:	None known.
14.7. Transport in bulk accord	ing to Annex II of MARPOL and the IBC Code
Transport in bulk:	Not relevant.

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SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Special provisions:	As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.
National regulation:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, with amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work, with amendments. Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives, with amendments. 2014/955/EC: Commission Decision of 18 December 2014 amending Decision 2000/532/EC as regards the list of wastes.

15.2. Chemical Safety Assessment

CSA status:

No chemical safety assessment has been carried out.

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SECTION 16: OTHER INFORMATION

For restrictions on use see section 15.

used in the safety data sheet:ATE(o) = Acute Toxicity Estimate, oral. ATE(i) = Acute Toxicity Estimate, inhalation. bw = body weight. CSA = Chemical Safety Assessment. EC50 = Effective Concentration 50%. LD50 = Lethal Concentration 50%. LD50 = Lethal Dose 50%. M(ac) = M-factor acute toxicity. M(chr) = M-factor chronic toxicity. NOEC = No Observed Effect Concentration. PBT = Persistent, Bioaccumulative and Toxic. vPB = very Persistent and very Bioaccumulative.Additional information:Classification according to Regulation (EC) No. 1272/2008: Calculation method.Wording of H-statements:Harmful if swallowed.H302Harmful if swallowed.H314Causes severe skin burns and eye damage.H306Very toxic to aquatic life.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.	Abbreviations and acronyms	ATE(d) = Acute Toxicity Estimate, dermal.
bw = body weight.CSA = Chemical Safety Assessment.EC50 = Effective Concentration 50%.LC50 = Lethal Concentration 50%.LD50 = Lethal Concentration 50%.LD50 = Lethal Concentration 50%.M(ac) = M-factor acute toxicity.M(chr) = M-factor chronic toxicity.NOEC = No Observed Effect Concentration.PBT = Persistent, Bioaccumulative and Toxic.vPvB = very Persistent and very Bioaccumulative.Additional information:Classification according to Regulation (EC) No. 1272/2008: Calculation method.Wording of H-statements:H302Harmful if swallowed.H314Causes serious eye damage.H318Causes serious eye damage.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.	used in the safety data sheet:	ATE(o) = Acute Toxicity Estimate, oral.
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H410 Very toxic to aquatic life with long lasting effects.	H318	Causes serious eye damage.
	H400	Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.	H410	Very toxic to aquatic life with long lasting effects.
	H411	Toxic to aquatic life with long lasting effects.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark. www.dhigroup.com.