



# SAFETY DATA SHEET

Product name: FeF Strong Cetrimide Solution 40% BP Pharma with ethanol Page: 2/11  
Revision: Print date: 2022-12-06  
SDS-ID: EU-EN/1.0

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## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

CLP: The product is classified: Acute Tox. 4;H302 - Skin Irrit. 2;H315 - Eye Dam. 1;H318 - STOT SE 3;H335 - STOT RE 2;H373 - Aquatic Acute 1;H400 - Aquatic Chronic 1;H410

### 2.2. Label elements



Danger

Contains: Reaction mass of dodecyltrimethylammonium bromide and tetradonium bromide

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

P260 Do not breathe vapour/spray.

P262 Do not get in eyes, on skin, or on clothing.

P280 Wear 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.

P273 Avoid release to the environment.

### 2.3. Other hazards

This product is not flammable.  
Please note that although this material has a flash-point below 55°C, it does not maintain combustion.

PBT/vPvB: This product does not contain any PBT or vPvB substances.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

The product contains: quaternary ammonium compounds, organic solvent and water.

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.

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CLP:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
10	64-17-5	200-578-6	01-2119457610-43-0002	Ethanol	Flam. Liq. 2;H225	
40	-	946-512-6	01-2120765182-56-0000	Reaction mass of dodecyltrimethylammonium bromide and tetradonium bromide	Acute Tox. 4;H302 Skin Irrit. 2;H315 Eye Dam. 1;H318 STOT SE 3;H335 STOT RE 2;H373 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	

<u>Chemical name:</u>	<u>SCL</u>	<u>M (ac)</u>	<u>M (chr)</u>
Ethanol	-	-	-
Reaction mass of dodecyltrimethylammonium bromide and tetradonium bromide	Skin Irrit. 2;H315: C ≥ 2.5%	100	1

References: The full text for all hazard statements is displayed in section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<u>Inhalation:</u>	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.
<u>Eye contact:</u>	Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring along these instructions.
<u>Ingestion:</u>	Immediately rinse mouth and drink 1-2 glasses of water. Keep person under observation. If uncomfortable: Transportation to hospital. Bring along these instructions.

### 4.2. Most important symptoms and effects, both acute and delayed

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

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

Medical attention/treatments: Treat symptomatically.

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## 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.(HBr, NOx)

### **5.3. Advice for firefighters**

Protective equipment for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions: Avoid inhalation of vapours and spray mist and contact with skin and eyes.  
Follow precautions for safe handling described in this safety data sheet.

### **6.2. Environmental precautions**

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: Small spillages: Absorb spillage with suitable absorbing material.  
Large spillages: Dam and absorb spillages with sand, earth or other non-combustible 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 vapours and spray mist 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: Follow rules for flammable liquids.

Storage conditions: Store in tightly closed original container in a well-ventilated place. Do not store near heat sources or expose to excessive temperatures.

### **7.3. Specific end use(s)**

Specific use(s): 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. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours and spray mist. 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: In case of inadequate ventilation use suitable respirator. It is recommended to use respiratory equipment with combination filter, type A2/P3. The use of filtering respirators should be limited to max. 3 hours per day.

Hand protection: Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. 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 contact.

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: Clear and colourless to slightly yellow viscous solution.  
Odour: Odour of alcohol.  
pH: Not available.  
Boiling point: Not available.  
Flash point: 49°C  
Explosion limits: Not available.  
Vapour pressure: Not available.  
Relative density: 1,0  
Solubility: Miscible with: Water and lower alcohols.  
Decomposition temperature (°C): Not available.

### 9.2. Other information

Other data: Please note that although this material has a flash-point below 55°C, it does not maintain combustion.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity: None known.

### 10.2. Chemical stability

Stability: Stable under the prescribed storage 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 200°C, the following substance(s) will be released: Alkyl bromides. Amines.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### **11.1. Information on toxicological effects**

Acute Toxicity (Oral): Harmful if swallowed.

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 skin irritation.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin 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: May cause respiratory irritation.

STOT - Repeated exposure: May cause damage to organs through prolonged or repeated exposure if swallowed.

Aspiration hazard: Based on available data, the classification criteria are not met.

Inhalation: May cause respiratory irritation. In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.

Skin contact: Irritating and degreasing.

Eye contact: Risk of serious damage to eyes. Immediate first aid is necessary.

Ingestion: Causes stomach pain, vomiting, diarrhoea and convulsions. Harmful if swallowed.

Toxicological data: Reaction mass of dodecyltrimethylammonium bromide and tetradonium bromide: LD50 (oral, rat): 390 mg/kg

### **11.2. Information on other hazards**

Endocrine disrupting properties: The substance is not identified as having endocrine disrupting properties.

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## SECTION 12: ECOLOGICAL INFORMATION

### **12.1. Toxicity**

Ecotoxicity: Very toxic to aquatic life with long lasting effects.

Reaction mass of dodecyltrimethylammonium bromide and tetradonium bromide:  
M-factor (acute): 100  
M-factor (chronic): 1

EC50 (Daphnia magna, 48 hours): 0,022 mg/l  
NOEC (Algae, 72 h): 0,023 mg/l

### **12.2. Persistence and degradability**

Degradability: The product is expected to be biodegradable.

### **12.3. Bioaccumulative potential**

Bioaccumulative potential: 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**

Endocrine disrupting properties: The substance is not 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 / 07 06 07

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## SECTION 14: TRANSPORT INFORMATION

### **14.1. UN number**

UN-No: 3082

### **14.2. UN proper shipping name**

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Reaction mass of dodecyltrimethylammonium bromide and tetradonium bromide)

### **14.3. Transport hazard class(es)**

Class: 9

### **14.4. Packing group**

PG: III

### **14.5. Environmental hazards**

Marine pollutant: Yes.

Environmentally Hazardous substance: Yes.

### **14.6. Special precautions for user**

Special precautions: None known.

### **14.7. Transport in bulk according 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 (EEC) 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.  
Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, with amendments.  
Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work, with amendments.  
Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work, with amendments.  
Directive 2009/148/EC of the European Parliament and of the Council of 30 November 2009 on the protection of workers from the risks related to exposure to asbestos at work, with amendments.  
Council Directive 94/33/EC of 22 June 1994 on the protection of young people 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.

Abbreviations and acronyms used in the safety data sheet: CSA = Chemical Safety Assessment.  
EC50 = Effective 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.  
SCL = Specific Concentration Limit.  
STOT = Specific Target Organ Toxicity.  
vPvB = very Persistent and very Bioaccumulative.

Additional information: Classification according to Regulation (EC) No. 1272/2008: Calculation method.

Wording of H-statements:

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H373c	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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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](http://www.dhigroup.com).

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