



Product name: FeF Cetrimide Ph.Eur. Page: 1/12

Revision: 2019-11-05 Print date: 2022-11-03

SDS-ID: GB-EN/15.0

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

#### 1.1. Product identifier

Product name: FeF Cetrimide Ph.Eur.

<u>CAS-No.:</u> 1119-97-7 <u>EC No.:</u> 214-291-9

REACH Reg. No: 01-2119989161-33-0000

Container size: 25 kg

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

Application: Preservative and active ingredient in the cosmetic and pharmaceutical industries.

<u>Identified use(s):</u> Manufacture of substances.

Formulation & (re)packing of substances and mixtures.

Formulation of articles with cosmetics, personal care products, pharmaceuticals.

Use as a processing aid.

Use in cosmetics and personal care products.

Use in laboratories.

Use of articles with cosmetics, personal care products, pharmaceuticals.

<u>Uses advised against:</u> None.

## 1.3. Details of the supplier of the safety data sheet

Supplier: Novo Nordisk Pharmatech A/S

Københavnsvej 216 DK-4600 Køge Tel:+45 56 67 10 00

www.novonordiskpharmatech.com

Supplier: Azelis UK Limited

Axis House, Tudor Rd, Runcorn

WA7 1BD Cheshire United Kingdom

Responsible for safety data

sheet authoring:

nnprinfo@novonordiskpharmatech.com

## 1.4. Emergency telephone number

Emergency telephone: + 45 56 67 10 00

(Only during office hours)

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# **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1. Classification of the substance or mixture

<u>CLP:</u> 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

<u>Contains:</u> Tetradonium bromide

EC No.: 214-291-9

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 dust.

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

PBT/vPvB: This substance is not classified as PBT or vPvB.

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

# 3.1. Substances

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CLP:

%: CAS-No.: EC No.: REACH Reg. Chemical name: Hazard classification: Notes:

No:

100 1119-97-7 214-291-9 - 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

1

<u>Chemical name:</u> <u>SCL</u> <u>M (ac)</u> <u>M (chr)</u>

Tetradonium bromide Skin Irrit. 2;H315:  $C \ge 2.5\%$  100

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

Inhalation: Dust inhalation: Move injured person into fresh air and keep person calm under

observation. If uncomfortable: Seek hospital and bring these instructions.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water. If irritation

persists: Seek medical attention and bring along these instructions.

Eye contact: Do not rub eye. 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.

Immediately rinse mouth and drink plenty of water. Keep person under

observation. If person becomes uncomfortable seek hospital and bring 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.

#### **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1. Extinguishing media

<u>Extinguishing media:</u> Use fire-extinguishing media appropriate for surrounding materials.

#### 5.2. Special hazards arising from the substance or mixture

<u>Specific hazards:</u> During fire, gases hazardous to health may be formed.(HBr, NOx)

#### 5.3. Advice for firefighters

Protective equipment for fire- Selection of respiratory protection for fire fighting: follow the general fire

<u>fighters:</u> precautions indicated in the workplace.

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#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid inhalation of dust and contact with skin and eyes. Use work methods which

minimise dust production. Follow precautions for safe handling described in this

safety data sheet.

6.2. Environmental precautions

<u>Environmental</u> Do not discharge into drains, water courses or onto the ground.

precautions:

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Collect spillage with shovel, broom or the like. Flush contaminated area with

plenty of water.

6.4. Reference to other sections

<u>References:</u> For personal protection, see section 8.

For waste disposal, see section 13.

# **SECTION 7: HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

<u>Safe handling advice:</u> Observe good chemical hygiene practices. Avoid inhalation of dust and contact

with skin and eyes. Change contaminated clothing. Avoid eating, drinking and

smoking when using the product.

<u>Technical measures:</u> Use work methods which minimise dust production. Avoid spreading dust.

Technical precautions: Mechanical ventilation required. Provide easy access to water supply and eye

wash facilities.

7.2. Conditions for safe storage, including any incompatibilities

<u>Technical measures for safe</u> No special precautions.

storage:

Storage conditions: Store in closed original container. 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

Occupational exposure limits:

 CAS-No.:
 Chemical name:
 As:
 Exposure limits:
 Type:
 Notes:
 References:

 Dusts, respirable dust
 4 mg/m3
 TWA
 EH40

 Dusts, total inhalable dust
 10 mg/m3
 TWA
 EH40

Notes: EH40: EH40/2005.

DNEL/PNEC: DNEL:

Acute Toxicity (Inhalation): - Local Effects: 0,05 mg/m³ Acute Toxicity (Dermal): - Local Effects: 250 µg/cm² Long term systemic effect - (Inhalation): 0,05 mg/m³ Long term systemic effect - (Dermal): 0,4 mg/kg/day Long Term - Local Effects - (Dermal): 50 µg/cm²

PNEC:

Freshwater: 0.026 µg/l Marinewater: 0.0026 µg/l Intermittent release: 0.54 µg/l

STP: 0.19 mg/l Soil: 0.21 mg/kg

8.2. Exposure controls

Engineering measures: Provide adequate ventilation. Observe occupational exposure limits and

minimise the risk of inhalation of dust. An eye wash bottle must be available at

the work site.

<u>Personal protection:</u> Personal protection equipment should be chosen according to the CEN

standards and in discussion with the supplier of the personal protective

equipment.

Respiratory equipment: During dust-raising work: Use respiratory equipment with particle filter, type

P2. The use of filtering respirators should be limited to max. 3 hours per day.

<u>Hand protection:</u> Wear protective gloves. Nitrile gloves are recommended. Other types of gloves

can be recommended by the glove supplier.

Eye protection: Wear goggles/face shield.

Skin protection: Wear suitable protective clothing.

Hygiene measures: Wash hands after contact.

Wash contaminated clothing before reuse.

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: A white or almost white crystalline powder.

Manufacture of substances.: Solution.

Odour: Not available. Odour threshold: Not available. pH: Not available.

Melting point / freezing point: 245°C (101,3 kPa)

**Boiling point:** Not relevant. Decomposes prior to boiling

Flash point: Not relevant. Solid.

Evaporation rate: Negligible.

Flammability (solid, gas): Not flammable. **Explosive limits** Not relevant.

Vapour pressure: < 0,001 Pa (25°C) (calculated)

Vapour density: Not relevant. 0,5 g/cm3 (20°C) Relative density: Solubility: Soluble in water.

200 g/l (20°C) (calculated)

Partition coefficient (n-

octanol/water):

log Kow: 2,2 (20°C)

210°C (1013 hPa) Auto-ignition

temperature (°C):

>200°C **Decomposition** 

temperature (°C):

Viscosity: Not relevant. Solid.

Explosive properties: None. Oxidising properties: None.

9.2. Other information

Other data: Surface tension: 42 mN/m (20°C) (in water: 336 mg/l)

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# **SECTION 10: STABILITY AND REACTIVITY**

10.1. Reactivity

Reactivity: None known.

10.2. Chemical stability

Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

<u>Hazardous Reactions:</u> None known.

10.4. Conditions to avoid

Conditions/materials to avoid: Heating.

10.5. Incompatible materials

<u>Incompatible materials:</u> Strong oxidising substances.

10.6. Hazardous decomposition products

Hazardous decomposition If heated to more than 200°C, the following substance(s) will be released: Alkyl

products: 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 Skin sensitisation: Based on available data, the classification criteria are not met.

sensitisation: Respiratory sensitisation: Data lacking.

<u>Germ cell mutagenicity:</u>

<u>Carcinogenicity:</u>

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

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

Reproductive Toxicity:

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

<u>STOT - Single exposure:</u> May cause respiratory irritation.

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

swallowed.

Aspiration hazard: Data lacking.

<u>Inhalation:</u> Dust irritates the respiratory system, and may cause coughing and difficulties in

breathing.

Skin contact: Causes skin irritation.

<u>Eye contact:</u> Causes serious eye damage. Immediate first aid is necessary.

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

Specific effects: May cause damage to organs through prolonged or repeated exposure if

swallowed. Target organs: Gastro-intestinal tract.

<u>Toxicological data:</u> Acute Toxicity (Oral LD50): 390 mg/kg (rat)

Acute Toxicity (Dermal LD50): 2150 mg/kg (rabbit)

Acute Toxicity (Inhalation): Adverse Effects: 1,8 mg/m³ (Mouse)

# 11.2. Information on other hazards

Endocrine disrupting

The substance is not identified as having endocrine disrupting properties.

properties:

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# **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1. Toxicity

<u>Ecotoxicity:</u> Very toxic to aquatic life with long lasting effects.

M-factor (acute): 100 M-factor (chronic): 1

Freshwater fish:

LC50 (Danio rerio, 96 hours): 1,81 mg/l NOEC (Pimephales sp.): 0.46 mg/l

Freshwater invertebrates:

EC50 (Daphnia magna, 48 hours):  $22 \mu g/l = 0,022 mg/l$  NOEC (Daphnia magna, 21 days):  $23 \mu g/l = 0,023 mg/l$ 

Freshwater algae:

EC50 (Pseudokirchneriella subcapitata, 72 hours):  $5,38 \mu g/l = 0,00538 mg/l$  NOEC:  $1,3 \mu g/l = 0,0013 mg/l$  (Pseudokirchnerella subcapitata, 72 hours)

Aquatic Microorganisms: EC50/LC50: 19 mg/l

Soil Macroorganisms: NOEC: 620 mg/kg

Toxicity to terrestrial plants:

EC50: 0,2 mg/l

Soil Microorganisms: EC50/LC50: 2000 mg/kg

NOEC: 21 mg/kg

Toxicity to other terrestrial organisms: NOEC: 1028 mg/kg (Chironomus riparius)

#### 12.2. Persistence and degradability

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

Soil: Half-life: 58 days (22°C)

#### 12.3. Bioaccumulative potential

<u>Bioaccumulative potential:</u> The product is not bioaccumulating.

BCF 750

12.4. Mobility in soil

Mobility: The product adsorbs to soil particles.

Koc: 31000 (20°C): log Koc: 4,49 (20°C):

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# 12.5. Results of PBT and vPvB assessment

PBT/vPvB: This substance is not classified as PBT or vPvB.

## 12.6. Endocrine disrupting properties

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

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

#### **SECTION 14: TRANSPORT INFORMATION**

## 14.1. UN number

UN-No: 3077

# 14.2. UN proper shipping name

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Tetradonium bromide)

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

Class: 9

14.4. Packing group

PG:

# 14.5. Environmental hazards

Marine pollutant: Yes.
Environmentally Hazardous Yes.

substance:

#### 14.6. Special precautions for user

<u>Special precautions:</u> None known.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

<u>Transport in bulk:</u> 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: UK Statutory Instruments, 2021 No. 904, CONSUMER PROTECTION

ENVIRONMENTAL PROTECTION HEALTH AND SAFETY. The REACH etc.

(Amendment) Regulations 2021.

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.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019 No.

720), as amended.

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No.

2677) with amendments.

EH40/2005, Workplace exposure limits 2005, with amendments.

The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895). The Management of Health and Safety at Work Regulations 1999 (SI 1999 No.

3242), with amendments.

# 15.2. Chemical Safety Assessment

<u>CSA status:</u> A chemical safety assessment has been carried out.

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# **SECTION 16: OTHER INFORMATION**

For restrictions on use see section 15.

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements: 1, 2, 3, 11, 12, 15, 16.

<u>Abbreviations and acronyms</u> CSA= Chemical Safety Assessment.

used in the safety data sheet: DNEL = Derived No Effect Level.

EC50 = Effective Concentration 50%.

LD50 = Lethal Dose 50%.

NOEC = No Observed Effect Concentration.
PBT = Persistent, Bioaccumulative and Toxic.
PNEC = Predicted No Effect Concentration.

SCL = Specific Concentration Limit. STOT = Specific Target Organ Toxicity. STP = Sewage Treatment Plant.

UVCB substances = Substances of Unknown or Variable composition.

vPvB = very Persistent and very Bioaccumulative.

Key literature references and

sources for data: CHEMICAL SAFETY REPORT on Tetradonium bromide

Wording of H-statements:

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.

H373C May cause damage to organs (blood, thymus) through prolonged or repeated

exposure.

H400 Very toxic to aquatic life.

H410 Very 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.