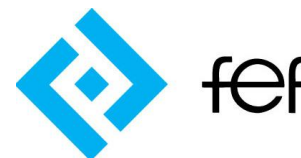


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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product name: Strong Cetrimide Solution 40% BP
Application: Preservative and active ingredient in the cosmetic and pharmaceutical industries
Container size: 200kg
Supplier: FeF Chemicals A/S
Københavnsvej 216
DK-4600 Køge
Tel.: +45 56 67 10 00

2. COMPOSITION/INFORMATION ON INGREDIENTS

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

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
30-60	1119-97-7	214-291-9	Trimethyltetradecylammonium bromide	Xn;R20/22 Xi;R37/38-R41 N;R50	
5-10	1119-94-4	214-290-3	Dodecyltrimethylammonium bromide	C;R34 Xn;R22 N;R50	
5-10	67-63-0	200-661-7	propan-2-ol	F;R11 Xi;R36 R67	

3. HAZARDS IDENTIFICATION

The product has been classified according to the legislation in force: Xn;R20/22 C;R34 Xi;R37 N;R50

Human health: Harmful by inhalation and if swallowed. Irritating to respiratory system. Corrosive to skin and eyes. Repeated or prolonged contact with skin may cause allergic reactions in sensitive individuals.

Environment: Very toxic to aquatic organisms.

4. FIRST-AID MEASURES

Inhalation: Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and take along these instructions.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact: Immediately flush with plenty of water. Remove any contact lenses and open eyes wide apart. Call an ambulance and continue flushing during transportation to hospital taking along these instructions.

Ingestion: Immediately rinse mouth and drink plenty of water. Call an ambulance and take these instructions. Do not induce vomiting.

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5. FIRE-FIGHTING MEASURES

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

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.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Look out! The product is corrosive.
Avoid inhalation of spray mist and contact with skin and eyes. Follow precautions for safe handling described in this safety data sheet. For personal protection, see section 8.

Environmental precautions: Do not discharge into drains, water courses or onto the ground.

Methods for cleaning up: Large spillages: Dam and absorb spillage with sand, sawdust or other absorbent.
Small spillages: Absorb spillage with suitable absorbent material.
Flush contaminated area with plenty of water.
For waste disposal, see section 13.

7. HANDLING AND STORAGE

Safe handling advice: Observe good industrial 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.

Technical measures for safe storage: No special precautions.

Storage conditions: Store in closed original container at temperatures between 15°C and 25°C. Store in tightly closed original container in a well-ventilated place.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours. An eye wash bottle must be available at the work site.

<u>Chemical name:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
Propan-2-ol	400 ppm 999 mg/m ³ 500 ppm 1250 mg/m ³	TWA-OES STEL-OES	- 15min	EH40

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. The most suitable glove must be chosen in consultation with the gloves supplier, 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.

Environmental Exposure Controls: Not available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear liquid
Odour: alcohol
pH: 5-7,5 (100 g/l)
Melting point (°C): not relevant
Boiling point (°C): not available
Flash point (°C): 48°C
Explosive properties: not relevant
Relative density: 0,98 (20 °C)
Solubility: Miscible with: Water and lower alcohols.

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperature conditions.

Conditions/materials to avoid: Strong oxidising substances.

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

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11. TOXICOLOGICAL INFORMATION

- Inhalation: In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.
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: Harmful in contact with skin. Causes burns. Repeated or prolonged contact with skin may cause allergic reactions in sensitive individuals.
- Eye contact: Causes burns. Risk of serious damage to eyes. Immediate first aid is necessary.
- Ingestion: Harmful if swallowed. 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: May cause sensitisation.

12. ECOLOGICAL INFORMATION

- Mobility: The product is water soluble and may spread in water systems. The product contains organic solvents which will evaporate easily from all surfaces.
- Degradability: Strong Cetrimide < 20ppm: The product is expected to be biodegradable.
- Ecotoxicity: Very toxic to aquatic organisms.
- Bioaccumulative potential: Bioaccumulation: Is not expected to be bioaccumulable.
- Other adverse effects: The product contains a substance which has a photochemical ozone creation potential.

13. DISPOSAL CONSIDERATIONS

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

- Waste from residues: EWC-code:
07 05 07
07 06 07

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14. TRANSPORT INFORMATION

UN-number: 3265

Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(Dodecyltrimethylammonium bromide, Trimethyltetradecylammonium bromide)

Sea (IMDG):

Class: 8

PG: III

MP: Yes

EmS: F-A , S-B

MFAG: 1

Inland waterways: To be handled locally.

Air (ICAO/IATA):

Class: 8

PG: III

Land (RID/ADR):

Class: 8

Packing group III

Primary risk label 8

Subsidiary risk label -

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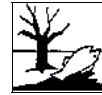
15. REGULATORY INFORMATION

Labelling:

Contains: Trimethyltetradecylammonium
bromide
Dodecyltrimethylammonium bromide



Corrosive



Dangerous for
the
environment

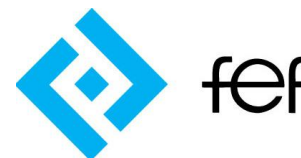
- R20/22 Harmful by inhalation and if swallowed.
R34 Causes burns.
R37 Irritating to respiratory system.
R50 Very toxic to aquatic organisms.
- S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S60 This material and/or its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

As a main 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:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (S.I 2002 No. 1689).
Occupational Exposure Limits EH 40/2002, Supplement 2003.
Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

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16. OTHER INFORMATION

For restrictions on use see point 15.

The following sections contain revisions or new statements: -.

Wording of Risk Phrases:

R11	Highly flammable.
R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.
R67	Vapours may cause drowsiness and dizziness.

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 DANISH TOXICOLOGY CENTRE, Kogle Allé 2, DK-2970 Hørsholm, Denmark. Telephone +45 45 76 20 55 Telefax +45 45 76 24 55