

Material Safety Data Sheet

Biospada



1. Identification of Substance & Supplier

Product Name: Biospada 75, 100, 125

Recommended Uses: Antimicrobial protective agent

Company Identification: KATAN TECHNOLOGIES IP PTE. LTD.
133 Cecil Street,
Keck Seng Tower, #13-03,
Singapore, 069535

Emergency Telephone Number: Int'l +1 352 323 3500 (24 hrs) INFOTRAC

2. Hazards identification

Precautionary Do not get in eyes or on clothing.
Avoid contact with skin or clothing, and avoid breathing vapour.
Wear protective eyewear (goggles or face shield).
Wash thoroughly with soap and water after handling.

Potential health effects:

Eyes: Direct contact will cause mild but temporary eye injury.

Skin: May cause slight irritation.

Ingestion: May be harmful if swallowed in large quantities.

Inhalation: May be harmful if inhaled for long periods.

Carcinogens: No

Medical conditions generally aggravated by exposure: Not known

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data, and/or expert review of the product

3. Composition/information on ingredients

Component	CAS Number	% Weight
3-(Trimethoxysilyl)propyl dimethyl octadecyl ammonium chloride	27668-52-6	0.75-1.25%
Deionised water	7732-18-5	98.75-99.25%

The above information is not intended for use in preparing product specifications.

4. First aid measures

Primary routes of exposure:

- Eyes:** Hold eye open and flush with a steady, gentle stream of water for 15-20 minutes. If present remove contact lenses after the first 5 minutes, then continue rinsing. Call a poisons control centre or doctor for treatment advice.
- Skin:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poisons control centre or doctor for treatment advice.
- Ingestion:** Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poisons control centre or doctor. Do not give anything by mouth to an unconscious person.
- Inhalation:** Move person to fresh air. If not breathing, give artificial respiration. Seek medical attention.

Recommended first aid facilities: Ready access to running water.

5. Fire fighting measures

- Fire and explosion hazards:** None
- Flashpoint:** N/A
- Hazards decomposition products:** N/A
- Suitable extinguishing media:** N/A
- Special firefighting procedures:** No special precautions required
- HAZCHEM code:** N/A

6. Accidental release measures

- Spills or Leaks:** Wear proper eye protection.
 This material will be slippery if spilled.
 Soak up with an inert material such as sawdust or absorbent.
 For small spills, hose away with water.
 For large spills, transfer to suitable container for disposal.

7. Handling and storage

- Handling:** No approved handlers required.
- Precautions:** Avoid contact with eyes. Wear proper eye protection.
- Storage:** Keep in a closed container when not in use.
 Store away from heat and direct sunlight.
 Recommended storage temperature is between 10°C and 40°C.

Section 7 notes: No special precautions. Avoid freezing contents.

8. Exposure controls/personal protection

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established for this substance.

Engineering controls: Ready access to running water and or eyewash stations
General ventilation

Personal Protective Equipment: Eye protection and gloves are recommended for bulk transfer and handling.

9. Physical and chemical properties

Physical state:	Slightly viscous liquid at 25°C
Appearance/colour:	Milky
Odour:	Odourless
Specific gravity (@68°F/20°C):	1.0 g/ml
Solubility in water:	Complete
pH:	5-8
Freezing point:	< 0°C
Boiling point:	100°C
Melting point:	N/A
Vapour pressure:	Not available
Viscosity (@ 68°F/20°C):	< 85.5 mPas
Volatile content:	N/A

Section 9 notes: None

10. Stability and reactivity

Stability:	Under normal conditions this material is stable.
Hazardous polymerization:	Hazardous polymerization will not occur.
Conditions to avoid:	Temperatures > 50°C; Freezing
Incompatible materials to avoid:	Acids, alkalis, strong oxidizing agents, anionic surfactants.
Hazardous decomposition products:	None

Section 10 notes: None

11. Toxicological information

Acute oral toxicity:	LD ₅₀ Rat (oral) > 5000 mg/kg.
Acute dermal toxicity:	LD ₅₀ Rabbit (dermal) > 5000 mg/kg.
Inhalation toxicity:	N/A
Acute eye irritation test:	Mild reversible eye irritant.
Acute dermal sensitivity:	Not a dermal sensitiser.
CMR toxicants:	Negative for CMR.

Section 11 notes: The US EPA has stated in their Reregistration Eligibility Decision (RED) for Trimethoxysilyl Quaternary Ammonium Chloride Compounds that there are no concerns for carcinogenicity based on results of mutagenicity studies.

12. Ecological information

Aquatic toxicity (active):	Slightly harmful to the aquatic environment.
Soil toxicity (active):	No data available.
Terrestrial vertebrate toxicity:	Non toxic.
Terrestrial invertebrate toxicity:	No data available.

Ecotoxicological effects:

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with requirements of the local government authority and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority.

Section 12 notes: None

13. Disposal considerations

Restrictions:	There are no product specific restrictions.
Waste Disposal Method:	Waste resulting from the use of this product may be disposed of on site. If this waste can not be disposed of by use according to the label instructions, contact your local Environmental Control Agency for guidance.
Container (plastic) disposal:	Rinse (or equivalent), then offer for recycling or reconditioning, puncture and dispose of in a sanitary landfill, incineration, or by burning (if allowed by the state and local authorities). If burned, stay out of smoke.

Section 13 notes: Inactivation of solutions containing Biospada may be accomplished by addition of an anionic surfactant or detergent in quantity equivalent to that of Biospada solution.

14. Transport information

IATA Proper Shipping Name:	Non-flammable liquid.
IATA UN Number:	Not specified.
Hazard Class:	Not regulated.
NFPA/HMIS classification:	Flammability 0, Reactivity 0, Health 1
Section 14 notes:	None

15. Regulatory information

New Zealand

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). The active component is listed on the New Zealand Inventory of Chemicals (NZIoC).

Group standard: Cleaning Products (Subsidiary Hazard) Group Standard 2006
HSNO approval number: HSR002530

US Federal Regulations

TSCA (Toxic Substances Control Act) Status: All components of this product are listed on the TSCA inventory of chemical substances.

International Regulations

European Inventory of Existing Commercial Chemical (EINECS) registry number for OCTADECYLDIMETHYL- TRIMETHYLOXYSILYLPROPYLAMMONIUM CHLORIDE is 248-595-8. (EINECS No. 248-595-8)

Section 15 notes: None

16. Other information

Disclaimer: This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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