

# EAST COAST ORGANICS PRIVATE LIMITED

Regd. Office & Factory : 237/2, Vellivoyal Chavadi,  
Chennai – 600 103.

## MATERIAL SAFETY DATA SHEET

**(Benzalkonium chloride solution 50%w/v)**

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: : Bkc -50  
Product code : Not applicable  
Use of the Substance / Mixture: : Inhibitor  
Company: : East Coast Organics Private Limited,  
237/2, Vellivoyal Chavadi,  
Chennai – 600103  
Tamilnadu - India  
Telephone : 044 – 64606747 / 9789074250  
Responsible/issuing person : Works ManagER  
E-mail address  
Emergency telephone number : 044- 64606747

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

#### Danger

Form : Liquid  
Colour : Pale yellow  
Odour : Mild  
Hazard Summary : Causes burns. Flammable  
OSHA Hazards : CORROSIVE TO SKIN, FLAMMABLE

#### Potential Health Effects

Primary Routes of Entry : Inhalation  
Ingestion  
Eyes  
Skin  
Inhalation : No information available.  
Skin : Causes skin burns.  
Eyes : Causes eye burns.  
Ingestion : Harmful if swallowed.

### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

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Chemical Name	CAS No.	Weight percent by volume
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	8001-54-5	50.00
DM Water	7732-18-5	50.00

## SECTION 4. FIRST AID MEASURES

- First aid procedures : Immediate medical attention is required.
- Inhalation : Move to fresh air.  
Call a physician immediately.  
If breathing is irregular or stopped, administer artificial respiration.
- Skin contact : After contact with skin, wash immediately with plenty of soap and water.  
Call a physician immediately.  
Take off all contaminated clothing immediately.
- Eye contact : Immediately flush eye(s) with plenty of water.  
Call a physician immediately.
- Ingestion : Call a physician immediately.  
Clean mouth with water and drink afterwards plenty of water.  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.

## SECTION 5. FIRE-FIGHTING MEASURES

### Flammable properties

- Flash point : 106°F (41°C)  
Method : Setaflash closed Tester (ASTM D3278)
- Ignition temperature : 689 °F (365 °C)

### Fire fighting

- Suitable extinguishing media : Dry powder  
Water spray  
Foam
- Further information : Use water spray to cool unopened containers.

### Protective equipment and precautions for firefighters

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- Specific hazards during fire fighting : Heating or fire can release toxic gas.
- Special protective equipment for firefights : In the event of fire, wear self-contained breathing apparatus.

## SECTION 6.ACCIDENTAL RELEASE MEASURES

- Personal precautions : Use respirator when performing operations involving potential exposure to vapour of the product.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Method for containment / Method for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations

## SECTION 7. HANDLING AND STORAGE

### Handling

- Handling : Avoid contact with skin and eyes.  
Provide sufficient air exchange and/or exhaust in work rooms.
- Advice on protection against fire and explosion : Highly flammable.  
Keep away from sources of ignition - No smoking.  
Take precautionary measures against static discharges.

### Storage

- Requirements for storage areas and containers : Keep container tightly closed.  
To maintain product quality, do not store in heat or direct sunlight.  
Keep in a dry, cool and well-ventilated place.
- Further information on : Store containers in compliance with the most recent NFPA
- Storage conditions : Code (NFPA 30). Ground all containers prior to pouring
- Storage temperature : <140°F (<60°C)

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>Engineering measures</b>	:	
Personal protective equipment		
Eye protection	:	Tightly fitting safety goggles Face-shield
Hand protection	:	Suitable material : Nitrile rubber Break through time : > 480 min  Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Rubber or plastic apron Rubber or plastic boots
Respiratory protection	:	In the case of vapour formation use a respirator with an approved filter.
Hygiene measures	:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid
Colour	:	Pale yellow
Odour	:	Mild

### Safety data

Flash point	:	106 °F (41 °C) Method: Setaflash Closed Tester (ASTM D3278)
Ignition temperature	:	689 °F (365 °C)
pH	:	7.0 to 7.5 at 100,00 g/l 77 °F (25 °C)
Pour point	:	14 °F (-10 °C)
Boiling point/boiling range	:	214 °F (101 °C)

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Vapour pressure	: 58 hPa (44 mmHg) : at 68 °F (20 °C)
Density	: 0,96 g/cm <sup>3</sup> : at 77 °F (25 °C)
Water solubility	: Note: completely soluble
Viscosity, dynamic	: <100 mPa.s : at 77 °F (25 °C)

## SECTION 10 STABILITY AND REACTIVITY

Conditions to avoid	: Remarks: Strong oxidizing agents Reducing agents
Hazardous decomposition products	: Note: nitrogen oxides (NO <sub>x</sub> ) Carbon oxides
Thermal decomposition	: Remarks: no data available
Shelf life when stored below 30°C	: 12 Months

## SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 rat Dose: 404 mg/kg
Acute dermal toxicity	: LD50 rabbit Dose: 3 418 mg/kg
Skin irritation	: rabbit Result: Corrosive Method: DOT
Eye irritation	: rabbit Result: severe irritant
Sensitisation	: Photoallergy guinea pig Result: not photoallergenic guinea pig Result: not sensitizing
Further information	: Information given is based on data on the components and the toxicology of similar products. No data is available on the product itself.

### N-Alkyl(C12-16)-N,N-dimethyl-N-benzylammonium chloride (CAS-No.: 68424-85-1)

Acute oral toxicity	: LD50 rat Dose: ca. 344 mg/kg
Acute dermal toxicity	: LD50 rabbit Dose: ca. 3 340 mg/kg
Skin irritation	: rabbit

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	Result: Corrosive
	Method: DOT
	Exposure time: 24 h
Eye irritation	: rabbit
	Result: Corrosive
	Method: DOT
	: Buehler Test guinea pig
Sensitisation	Classification: Did not cause sensitization on laboratory animals.
	Result: not sensitizing
	Method: OECD Test Guideline 406

## SECTION 12 ECOLOGICAL INFORMATION

Additional ecological information : Information given is based on data on the components and the ecotoxicology of similar products.

### The following ecotoxicological data refer to:

#### N-Alkyl(C12-16)-N,N-dimethyl-N-benzylammonium chloride (CAS-No.: 68424-85-1)

Biodegradability : OECD Confirmatory Test  
>90 %  
Method: OECD 303 A

Modified SCAS Test  
Exposure time: 7 d  
>99 %  
Method: OECD 302 A

CO2 Evolution Test  
Concentration: 5 mg/l  
Exposure time: 28 d  
Result: Readily biodegradable.  
95,5 %  
Method: OECD 301 B

#### Remarks:

The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct

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		request or at the request of a detergent manufacturer.
Bioaccumulation	:	Species: <i>Lepomis macrochirus</i> (Bluegill sunfish) Exposure time: 35 d Concentration: 0,05 mg/l Bioconcentration factor (BCF): 79 Method: US-EPA
Acute Fish toxicity	:	Acute toxicity LC50 Species: <i>Oncorhynchus mykiss</i> (rainbow trout) Concentration: 0,93 mg/l Exposure time: 96 h Analytical monitoring: yes Method: US-EPA
		Acute toxicity LC50 Species: <i>Pimephales promelas</i> (fathead minnow) Concentration: 0,28 mg/l Exposure time: 96 h Analytical monitoring: yes Method: US-EPA
		Acute toxicity LC50 Species: <i>Lepomis macrochirus</i> (Bluegill sunfish) Concentration: 0,51 mg/l Exposure time: 96 h Analytical monitoring: yes Method: US-EPA
		Early-life Stage NOEC Species: <i>Pimephales promelas</i> (fathead minnow) Concentration: 0,03 mg/l Exposure time: 34 d Analytical monitoring: yes Method: EPA-FIFRA
Toxicity to daphnia and other aquatic invertebrates.	:	Immobilization EC50 Species: <i>Daphnia magna</i> (Water flea) Concentration: 0,01 mg/l Exposure time: 48 h Analytical monitoring: yes Method: OECD Test Guideline 202
		Reproduction Test NOEC Species: <i>Daphnia magna</i> (Water flea) Concentration: 0,00 mg/l Exposure time: 21 d Analytical monitoring: yes

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Method: EPA-FIFRA

Chronic toxicity NOEC

Species: Chironomus sp.

Concentration: 520,00 mg/l

Exposure time: 28 d

Analytical monitoring: yes

Method: US-EPA

- Toxicity to algae : Cell multiplication inhibition test ErC50  
Species: Pseudokirchneriella subcapitata (green algae)  
Dose: 0,04 mg/l  
Exposure time: 72 h  
Analytical monitoring: yes  
Method: OECD Test Guideline 201
- Toxicity to bacteria : Respiration inhibition EC50  
Species: activated sludge  
Dose: 7,75 mg/l  
Exposure time: 3 h  
Method: OECD 209
- Growth inhibition EC100  
Species: Pseudomonas putida  
Dose: ca. 16,00 mg/l  
Exposure time: 96 h

## SECTION 13. DISPOSAL CONSIDERATIONS

- Further information : The organic ingredients can be incinerated in a suitable installation when in accordance with local regulations.

Dispose of in accordance with local regulations.

## SECTION 14. TRANSPORT INFORMATION

- DOT** :
- UN number : 2920
- Description of the goods : Corrosive liquids, flammable, n.o.s.  
(Alkyldimethylbenzylammoniumchloride)
- Class : 8
- Packing group : II
- Labels : 8(3)
- IATA**
- UN number : 2920
- Description of the goods : Corrosive liquids, flammable, n.o.s.  
(Alkyldimethylbenzylammoniumchloride)
- Class : 8



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Packing group	:	II
Labels	:	8(3)
Packing instruction (cargo aircraft)	:	855
Packing instruction (passenger aircraft)	:	851
Packing instruction (passenger aircraft)	:	Y840
<b>IMDG-CODE</b>		
UN number	:	2920
Description of the goods	:	Corrosive liquids, flammable, n.o.s. (Alkyldimethylbenzylammoniumchloride)
Class	:	8
Packing group	:	II
Labels	:	8(3)
EmS Number 1	:	F-E
EmS Number 2	:	S-C
Marine pollutant	:	Yes
<b>RID</b>		
UN number	:	2920
Description of the goods	:	Corrosive liquids, flammable, n.o.s. (Alkyldimethylbenzylammoniumchloride)
Class	:	8
Packing group	:	II
Classification Code	:	CF1
Hazard identification No	:	83
Labels	:	8(3)

## SECTION 15. REGULATORY INFORMATION

OSHA Hazards	:	Corrosive to skin, Flammable
WHMIS Classification	:	E B2
TSCA Status	:	All components of this product are currently listed on the EPA TSCA 8(b) inventory list or are incidental byproducts. This product is not an EPA registered pesticide. It cannot be used in the United States as a commercial antimicrobial agents without first obtaining an EPA FIFRA registration. It can be used commercially in non-antimicrobial applications, and for all research and development (R&D) applications including as a potential antimicrobial agent.

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CERCLA Reportable Quantity : 1 000 lbs  
SARA 311/312 Hazards : Fire Hazard  
Acute Health Hazard

## EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW

SARA 302 Components : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.  
SARA 313 Components : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## SECTION 16. OTHER INFORMATION

Further information :  
HMIS Classification : Health hazard: 3  
Flammability: 2  
Reactivity: 0

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text