

**MATERIAL SAFETY DATA SHEET**

**Trans BKC / BAC - 50**

**Date : July 1<sup>ST</sup>, 2015**

**Version :00**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

**PRODUCT NAME:** Trans BKC / BAC - 50

**1.2 CHEMICAL NAME:** Alkylbenzyltrimethylammonium chloride

**1.3 Recommended use of the chemicals and restriction on use**

**Product use:** This is cationic surfactant. Used as broad spectrum biocide, germicidal, disinfectant in Industrial water treatment

**1.4 SUPPLIER DETAILS :** TransCreek MS Pvt Ltd, 201 Devkan CHS, Sector 14, Plot 54, Koperkhairane, Navi Mumbai, Maharashtra.

**Telephone number:** 9920184356,+91-022-27544356

**Emergency telephone number :** +919920184356

**2: Hazardous identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)**

Acute toxicity, Oral (Category 4), H302

Skin corrosion (Category 1B), H314

Acute aquatic toxicity (Category 1), H400

**Classification according to Directive 67/548/EEC (DSD)**

C Corrosive R34

Xn Harmful R21/22

N Dangerous for the

Environment R50

**Additional information**

For the full text of H Statements and R-phrases see section 16.

**2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008 (CLP):**

**Substance name:** Alkylbenzyltrimethylammonium chloride

**Hazard pictogram(s)**



**Signal word:** Danger

**Hazard Statements:** H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

**Precautionary statements:****Prevention**

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

**Storage**

P404 Store in a closed container

P420 Store away from strong oxidizing agents and reducing agents

**Disposal**

P501 Dispose of contents/container in accordance with local, regional, national and/or international regulations.

**2.3 Other hazards which do not result in classification**

Not available

**SECTION 3: Composition / information on ingredients****Substance**

**3.1 Substance name:** Alkylbenzyltrimethylammonium chloride

**3.2 Common name:** Benzalkonium Chloride

**3.3 CAS No** 63449-41-2

**EC No:** 264-151-6

**Concentration(%) :** 49 - 51

**Classification:** Acute Tium Cox. 4; Skin Corr. 1B; Aquatic Acute 1; H302 + H312, H314, H400

**3.4 Impurities and stabilizing additives which are themselves classified and which contribute to the classification of a substance:**

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

**General notes:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**Following inhalation:** Inhalation is not an expected route of exposure. Remove victim to fresh air and keep at rest in a position comfortable for breathing if inhalation occurs. See medical attention if symptoms persist.

**Following skin contact:** Immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

**Following eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical advice if irritation persists.

**Following ingestion:** Do NOT induce vomiting without medical advice. Drink water as a precaution. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Notes for the doctor:** Treat symptomatically and supportively.  
Treatment may vary with condition of victim and specifics of incident.

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

Potential acute health effects

Eye contact: Irritating to eyes

Inhalation: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.

Skin contact: Skin contact may aggravate existing skin disease

Ingestion: May cause irritation to mouth, throat and stomach

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

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments:** Symptomatic treatment and supportive therapy as indicated. Following severe exposure

the patient should be kept under medical review for at least 48 hours.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: on large fires use universal foam or water spray. On small fires use dry chemical, CO<sub>2</sub>. Water can be used to cool fire exposed containers.

Unsuitable extinguishing media: Water jet is not recommended.

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

Will burn (following evaporation of water)

Hazardous decomposition products formed under fire conditions. On combustion or on thermal decomposition (pyrolysis), releases:

Nitrogen di oxides, Carbon oxides

### 5.3 Advice for fire-fighters

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

Wear suitable protective equipment. Do not touch damaged containers or spilled material unless wearing suitable protective clothing.

### 6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up.

**Small spill :** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill:** Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations

### 6.4 Reference to other sections.

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment .

See section 13 for information on disposal .

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling.

Avoid direct or prolonged contact with skin and eyes. Avoid inhalation of vapour or mist.

### 7.2 Conditions for safe storage, including any incompatibilities

SHIP AND STORE BETWEEN 0-30°C . if the storage temperature is less than or equal to 0°C, the product will be frozen, but after thawing at room temperature (10-25°C) and mix until uniform, it can be used. Store in tightly closed containers. Store in an area that is dry, well ventilated, away from incompatible materials (see section 10, stability and reactivity). Expected shelf life if stored at recommended temperatures: 24 months.

### 7.3 Specific end use(s): Cosmetics additive, surfactant

This product has been designed to operate as a surfactant and may offer one or more of the following properties: Used as broad spectrum biocide, germicidal, disinfectant in Industrial water treatment.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values:

No occupational exposure limit values established

#### DNEL (Derived no Effect Level) for workers

No data available

### 8.2 Exposure controls

**Appropriate engineering controls:** Provide appropriate exhaust ventilation at places.

### 8.3 Personal protective equipment:

**Eye and face protection:** Wear safety glasses with side shields or splash proof goggles. (ANSI Z87 approved). An emergency eye wash is necessary.

**Skin protection:** Use proper protection - gloves and suitable long-sleeved clothing (i.e., shirts and pants) as a minimum.

**Hand protection:** Protective gloves.

**Respiratory protection:** If ventilation is insufficient, suitable respiratory protection must be provided

**Environmental exposure Controls :** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Industrial hygiene:** Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

## SECTION 9: Physical and chemical properties

<b>Appearance:</b>	Liquid
<b>Colour:</b>	Colourless to Pale yellow
<b>Odour:</b>	Characteristic
<b>pH ( 25°C,5% aqueous solution ) :</b>	6 - 10
<b>Melting point:</b>	No data available.
<b>Freezing point:</b>	<0°C
<b>Boiling point:</b>	> 100°C at 760 mmHg
<b>Density:</b>	~ 0.98 g/cm <sup>3</sup>
<b>Vapour pressure:</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Solubility(ies):</b>	Soluble in water
<b>Flash point:</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Flammability:</b>	Non flammable.
<b>Explosive properties:</b>	No data available.
<b>Oxidising properties:</b>	Not considered as oxidizing.
<b>Evaporation rate :</b>	No data available.
<b>Viscosity:</b>	≤500 mPa.s(25°C)
<b>Specific gravity</b>	No data available.
<b>Decomposition temperature</b>	Not available

### 9.2 Other information

Not available

## SECTION 10 : Stability and reactivity

### 10.1 Reactivity

Stable under normal temperature and pressures.

### 10.2 Chemical stability

Stable under normal temperature and pressures.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

Heat, open flame, spark.

### 10.5 Incompatible materials

Strong acids, strong oxidizing agents.

### 10.6 Hazardous decomposition products.

Carbon oxides, nitrogen oxides (NOx).

## SECTION 11 : Toxicological Information

### 11.1 Information on toxicological effects

#### *Toxicokinetics, metabolism and distribution*

No relevant information available.

#### **Skin corrosion/irritation:**

Slightly irritating. May cause redness, irritation.

#### **Serious eye damage/irritation:**

No data available.

#### **Respiratory or skin sensitization:**

No data available.

#### **CMR effects (Carcinogenicity, Mutagenicity and Toxicity for Reproduction):**

No data available.

#### **STOT-single exposure and repeated exposure:**

No data available.

#### **Additional information:**

No relevant information available.

### 11.2 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation No specific data

Ingestion No specific data

Skin contact Adverse symptoms may include irritation and redness

Eye contact Adverse symptoms may include irritation, watering, redness

### 11.3 Delayed and immediate effects and also chronic effects from short and long-term exposure

Not available

### 11.4 Numerical measures of toxicity

Acute Oral toxicity: LD50 $\geq$ 240mg/kg (rat)

## SECTION 12 : Ecological Information

### 12.1 Toxicity

No data available.

### 12.2 Persistence and degradability:

Readily biodegradable (Directive 84/449/EEC, C.5 "Biotic degradation-modified Sturm test").

### 12.3 Bioaccumulative potential

LD50 $>$ 2000mg/kg(Mouse)

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

### 12.6 Other adverse effects

No relevant information available.

## 13: Disposal considerations

### 13.1 Waste treatment methods

Product disposal: Dispose of in accordance with local regulations.

Packaging disposal: Any containers of equipment used should be decontaminated immediately after use.

## 14: Transportation Information

14.1 UN Number UN 3265  
14.2 UN proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Benzalkonium chloride)  
14.3 Transport hazard class 8.0 Corrosive Substance



14.4 Packing group III  
14.5 Environmental hazards Yes  
14.6 Special precautions for user Not available  
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not available

## 15: Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

**EU regulation: Authorisations:** No information available.

**Restrictions on use:** No information available.

**EINECS:** CAS# 63449-41-2 is not listed in the inventory

**DSD (67/548/EEC):** CAS# 63449-41-2 is not listed in the inventory.

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

## 16: Other information

### 16.1 Abbreviations and acronyms

**CLP:** EU regulation (EC) No 1272/2008 on classification, labelling and packaging of chemical substances and mixtures.

**CAS:** Chemical Abstracts Service (division of the American Chemical Society).

**EINECS:** European Inventory of Existing Commercial Chemical Substances.

**IMDG:** International Maritime Code for Dangerous Goods.

**IATA:** International Air Transport Association.

**OSHA:** The United States Occupational Safety and Health Administration.

**Prepared by:** Quality Assurance

**Group:** TransCreek MS Pvt. Ltd

**Phone No:** 9920184356,+91-022-27544356

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The information given in good faith & is based on our knowledge of this product, at the time of publication. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products. This information is not exhaustive. This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the product, do not exist. This is solely his responsibility.