



## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : B 11529  
Product Name : BENZALKONIUM CHLORIDE(50%)

#### Manufacturer / supplier identification

Company : NICE Chemicals (P) Ltd. , Cochin , India  
Tel - 0484 2800212 , 2802755

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483  
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

---

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

#### Aqueous solution.

Synonyms : Alkylbenzyltrimethylammonium chloride(50%)  
Hazard symbols : C N  
R-phrases : 21/22-34-50  
CAS-No : 634449-41-2 Content: 50%  
EC Index No. : 612-140-00-5

Harmful in Contact with skin if swallowed.

Causes burns. Very toxic to aquatic organisms.

---

### 3. HAZARDS IDENTIFICATION

Harmful in contact with skin and if swallowed.

Causes burns.Very toxic to aquatic organisms.

---



## SAFETY DATA SHEET

---

**Catalogue No.** : **B 11529**  
**Product Name** : **BENZALKONIUM CHLORIDE(50%)**

---

#### **4. FIRST AID MEASURES**

After skin contact: wash off with plenty of water. Dab with polyethylene glycol 400. Immediate remove contaminated clothing.

After eye contact : rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediate summon eye specialist.

After inhalation: fresh air.

After swallowing : make victim drink plenty of water, avoid vomiting(risk of aspiration.). Immediately summon doctor.

---

#### **5. FIRE – FIGHTING MEASURES**

Suitable extinguishing media : water, foam, powder.

Special risks : Preparation with combustible ingredients.

Development of hazardous combustion gases or vapours possible in the event of fire.

Contains escaping vapours with water. The following may develop in event of fire: hydrochloric acid, nitrogen oxides.

Special protective equipments for fire fighting : Do not stay in dangerous zone without self-contaminated breathing apparatus.

Other information: Prevent fire-fighting water from entering surface water or ground water.

---



## **SAFETY DATA SHEET**

---

**Catalogue No.** : **B 11529**  
**Product Name** : **BENZALKONIUM CHLORIDE(50%)**

---

### **6. ACCIDENTAL RELEASE MEASURES**

Person related precautionary measures : Do not inhale vapours/aerosols.

Avoid substance contact. Ensure supply of fresh air in enclosed rooms.

Environmental –protection measures: Do not allow to enter sewerage system.

Procedures for cleaning/absorption : Take up with liquid-absorbent material(e.g.Chemizorb).

Forward for disposal. Clean up effected area.

---

### **7. HANDLING AND STORAGE**

Handling : No further requirements.

Storage : Tightly closed .

Storage temperature : No restrictions.

---

### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Personal protective equipment

Respiratory protection : Required when dusts are generated.

Eye protection : Required

Hand protection : Required

Protective clothing should be selected specifically for the working place,depending on concentration and quantity of the hazardous substances handled.The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Industrial hygiene : Change contaminated clothing. Wash hands after working with substance.

---



## SAFETY DATA SHEET

---

**Catalogue No.** : **B 11529**  
**Product Name** : **BENZALKONIUM CHLORIDE(50%)**

---

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid	
Colour	:	Weakly yellowish	
Odour	:	Characteristic	
PH value at 10g/l H <sub>2</sub> O (20° C)	:	5-8	:
Viscosity dynamic (20° C)	:	100	mPa*s
Melting temperature	:	not available	
Solidification point	:	0° C	
Boiling temperature	:	100° C	
Ignition temperature	:	Not available	
Flash point	:	Not available	
Explosion limits lower	:	Not available	
Upper	:	Not available	
Relative vapour density	:	Not available	
Density(20° C)	:	0.99	g/cm <sup>3</sup>
Solubility in water(20° C)	:	Soluble	
Ethanol (20° C)	:	Soluble	
Thermal decomposition	:	> 150° C	

---

### 10. STABILITY AND REACTIVITY

Conditions to be avoided : No information available.  
Substance to be avoided : No information available.  
Hazardous decomposition :products : No information available.

---



## SAFETY DATA SHEET

---

**Catalogue No.** : **B 11529**  
**Product Name** : **BENZALKONIUM CHLORIDE(50%)**

---

### 11. TOXICOLOGICAL INFORMATION

Acute toxicity : LD<sub>50</sub> (oral,rat) : 240 mg/kg (calculated on the pure substances)

Further toxicological information:

After skin contact : skin lesions. Degreasing effect on the skin,  
Possibly followed by secondary inflammation.

After eye contact : Risk of serous damage to eyes.

Risk of corneal clouding.

After swallowing : Irritations of mucous membranes in the  
mouth, pharynx, oesophagus and gastrointestinal tract. Nausea,  
vomiting,diarrhoea.

Further data : Further hazardous properties cannot be excluded theproduct  
should be handled with the care usual when dealing with  
chemicals.

---

### 12. ECOLOGICAL INFORMATION

Behavior in enviornmental compartments : Readly biodegradable.

Ecotoxic effects: Highly toxic for aquatic organisms.

Fish toxicity : L.idus LC<sub>50</sub> : 1- 10 mg/l/96 h

Bactericidal effects: Fungicidal effect.

Further ecologic data: Do not allow to enter waters, waste water, or soil.

---



## SAFETY DATA SHEET

---

**Catalogue No.** : **B 11529**  
**Product Name** : **BENZALKONIUM CHLORIDE(50%)**

---

### 13. DISPOSAL METHOD

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste

Disposal in compliance with official regulations. Handle contaminated packaging as in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled

---

### 14. TRANSPORT INFORMATION

Transport over land ADR/RID

and GGVS/GGVE GGVS/GGVE class : 8 Number and letter : 66 b

ADR/RID class : 8 Number and letter : 66 b

Name of material : 1760 BENZALKONIUM CHLORIDE

River transport AND/ADNR : Not examined

Sea transport IMDG

IMDG class : 8 UN-No.: 1760 Packaging group: 11

EMS : 8-15 MFAG : 760, 4.3

Correct technical name : BENZALKONIUM CHLORIDE 50%

Air transport ICAO-TI and IATA-DGR

ICAO/IATA class: 8 UN/ID-No.: 1760 Packaging group : 11

Correct technical name : BENZALKONIUM CHLORIDE 50%

---



## SAFETY DATA SHEET

---

**Catalogue No.** : **B 11529**  
**Product Name** : **BENZALKONIUM CHLORIDE(50%)**

---

### 15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol	:	C	Corrosive
		N	Dangerous for the environment
R- Phrases	:	21/ 22-34-50	Harmful in contact with skin and if swallowed. Causes burns. Very toxic to aquatic organisms.
S-phrases	:	26-36/37/39-45-61	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing , gloves and eye/face protection. In case of accident or if you feel unwell , seek medical advice immediately (show the label where possible). Avoid release to the environment. Refer to special instruction/safety data sheets.
Water pollution class	:	3	(highly polluting substance)

---

### 16. OTHER INFORMATION

Reason for alteration :

Change in labelling.

General update.

The information contained here in is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

---