

BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE

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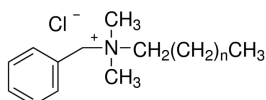
according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
SDS Reference Number: 01790
□□□□□□: 4/9/2014 □□□□□□: 12/20/2024 □□□□: 12/7/2017 □□: 1.1

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1.1. □□□□

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: BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE
: 01790
: Solution



□□ □□ : Alkyl Dimethyl benzyl ammonium chloride 50% Solution

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

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: Laboratory chemicals, Manufacture of substances
: Reagent

1.3. □□□□□□□□ □□ □□ □□

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1.4. □□□□□□

□□ □□ □□ : + 91 22 6663 6663 (9:00am - 6:00 pm)

□□ 2: □□□·□□□□

2.1. □□□·□□□□ □□

Regulation (EC) No.1272/2008 [CLP] □□ □□ □□

□□ □□ (□□), □□ 4 H302
□□ □□□/□□ □□□, □□ 1, □□□□ 1B H314
□□□□ □□□ - □□, □□ 1 H400
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2.2. □□□□□□□□ □□□ □□□□ □□

□□ (EC) No. 1272/2008 □□ □□ □□ [CLP]

□□ □□ □□□□(CLP)



□□□ (CLP) : □□
□□ : BENZALKONIUM CHLORIDE

BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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5.1. □□□ □□□

- □□□ : Carbon dioxide. Dry powder. Foam. Water spray.
- □□□ : Do not use a heavy water stream.

5.2. □□□□□□□ □□□ □□ □□□

- □□ : No fire hazard.
- □□ : No direct explosion hazard.
- □ □□□ □□□ □□ : Toxic fumes may be released.

5.3. □□□□□ □□ □□

- □□ : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
- □□ □ □□ : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. □□□ □□□□□. Complete protective clothing.

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6.1. □□□ □□□□ □□ □□□ □□□□ □ □□□

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- □□□ : Wear recommended personal protective equipment.
- □□ : Ventilate spillage area. Evacuate unnecessary personnel. □□ □ □□□ □□□ □□□□. □□/□/□□/□ □□/□□/□□□□ □(□) □□□□ □□□.
- □□□□ : Do not attempt to take action without suitable protective equipment. □□□ □□ □□□□ □□□□□. □ □ □□□ □□□ □□ 8: "□□□□ □ □□□□□"□ □□□□□.
- □□ : Ventilate area. Evacuate unnecessary personnel. □□□□ □□□□ □□ □□□□ □□□ □□□□.

6.2. □□□ □□□□ □□ □□□ □□□□

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6.3. □□ □□ □□ □□

- : □□□□ □□□□. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
- □□ : Take up liquid spill into absorbent material. □□□□ □□□□. On land, sweep or shovel into suitable containers.
- □□ □□□□ : Dispose of materials or solid residues at an authorized site.

6.4. □□ □□ □□ □□

For further information refer to section 13.

□□ 7: □□ □ □□□□

7.1. □□□□□□

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- : Ensure good ventilation of the work station. □□ □ □□□ □□□ □□□□. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour. □□/□/□□/□□□/□□/□□□ □ □(□) □□□□ □□□. □□ □□□□ □□□□□□.

BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

□□ □□ : □□□□ □□□□ □□□□, □□□□ □□□□ □□□□. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. □□ □□ □□□□ □□□□ □□□□□. Always wash hands after handling the product.

7.2. □□□□ □□□□ □□□□ □□ □□ □□

□□□□ □□ : Keep in a cool, well-ventilated place away from heat.
□□ □□ : □□□□ □□ □□ □□□□□. □□□□ □□□□□□□. □□□□□□ □□ □□□□□□.
□□□□ : Store always product in container of same material as original container.

7.3. □□ □□ □□

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8.1. □□ □□ □□

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8.2. □□□□

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Ensure good ventilation of the work station.

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□□ □□□□:

Wear recommended personal protective equipment.

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Chemical goggles or safety glasses

Skin protection

□□ □□:

Wear a mask

□□ □□:

Protective gloves

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Wear appropriate mask

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□□ 9: □□□□□□ □□

9.1. □□□□ □□□□□□ □□□□ □□ □□

□□□□ □□ : □□
□□ : Pale yellow.
□□ : almost clear. □□.

BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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□□□□ □□	:	370 °C
□□ □□	:	> 140 °C
pH	:	6 – 9
pH □□□ □□	:	10 %
□□(□□□)	:	132.653 mm ² /s
□□(□□□□)	:	130 mPa·s at 20 °C
□□□	:	□: Miscible with water □□□: Miscible with Ethanol
Partition coefficient n-octanol/water (Log Kow)	:	□□□□
□□□	:	120 hPa at 20 °C
50°C□□□ □□□	:	□□□□
□□	:	0.98 g/cm ³ at 20°C
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20°C□□□ □□ □□ □□	:	□□□□
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9.2. □ □□ □□□□

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□□ 10: □□□ □ □□□

10.1. □□□

Thermal decomposition generates : Corrosive vapours.

10.2. □□□ □□□

Stable under normal conditions.

10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

10.4. □□□ □ □□

□□□□. Overheating.

10.5. □□□ □ □□

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10.6. □□□ □□□□ □□□□

Thermal decomposition generates : Corrosive vapours.

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11.1. □□ (EC) No 1272/2008 □ □□□, □□□ □□□ □□ □□

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BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE	
ATE CLP(□□)	980.392 mg/kg bodyweight

□□ □□□ □□ □□□ : Causes severe skin burns.
pH: 6 – 9

WATER (7732-18-5)	
pH	6 – 8 at 25 °C

□□ □ □□ □□ □□□ : Assumed to cause serious eye damage
pH: 6 – 9

WATER (7732-18-5)	
pH	6 – 8 at 25 °C

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BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE	
□□(□□□)	132.653 mm ² /s

WATER (7732-18-5)	
□□(□□□)	0.894 mm ² /s

11.2. □□ □□ □□
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□□ 12: □□□ □□□ □□

12.1. □□
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12.2. □□□ □ □□□

BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE	
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BENZALKONIUM CHLORIDE (63449-41-2)	
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WATER (7732-18-5)	
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12.3. □□ □□□
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BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

12.4. □□ □□□

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12.5. PBT □ vPvB □□ □□

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12.6. □□□ □□ □□

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12.7. □□ □□ □□

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□□ 13: □□□ □□□□

13.1. □□□ □□□

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- : Disposal must be done according to official regulations.
- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Disposal must be done according to official regulations.
- : □□, □□, □□ □/□□ □□ □□□ □□ □□□□ □□ □□ □□□□ □□ □□□□ □□ □□□□□.
- Disposal must be done according to official regulations.
- : Do not re-use empty containers.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID □□ □□

14.1. UN □□ □□ ID □□

- UN-□□(ADR) : UN 3265
- UN-□□ (IMDG) : UN 3265
- UN-□□(IATA) : UN 3265
- UN-□□(ADN) : UN 3265
- UN-□□(RID) : UN 3265

14.2. UN □□ □□□

- □□□ (ADR) : □□□ □□, □□, □□□, □□ □□□ □□□ □□ □
- □□□ (IMDG) : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
- □□□ (IATA) : Corrosive liquid, acidic, organic, n.o.s.
- □□□ (ADN) : □□□ □□, □□, □□□, □□ □□□ □□□ □□ □
- □□□ (RID) : □□□ □□, □□, □□□, □□ □□□ □□□ □□ □
- □□ □□ (ADR) (ADR) : UN 3265 □□□ □□, □□, □□□, □□ □□□ □□□ □□ □ (BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50%), 8, II, (E), □□□ □□
- □□ □□ (IMDG) : UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
- □□ □□ (IATA) : UN 3265 Corrosive liquid, acidic, organic, n.o.s. (BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50%), 8, II, ENVIRONMENTALLY HAZARDOUS
- □□ □□ (ADN) : UN 3265 □□□ □□, □□, □□□, □□ □□□ □□□ □□ □, 8, II, □□□ □□
- □□ □□ (RID) : UN 3265 □□□ □□, □□, □□□, □□ □□□ □□□ □□ □, 8, II, □□□ □□

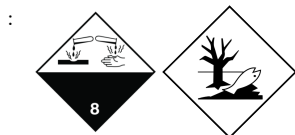
14.3. □□□□□ □□□ □□

- ADR : 8
- □□□ □□ (ADR) : 8
- □□ (ADR) : 8

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IMDG

□□□□□ □□□ □□ (IMDG)
 □□ □□ (IMDG)

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 : 8
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IATA

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ADN

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RID

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14.4. □□□□

□□ □□ (ADR)
 □□ □□ (IMDG)
 □□ □□ (IATA)
 □□ □□ (ADN)
 □□ □□ (RID)

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14.5. □□ □□□

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 EmS-No. (□□)
 EmS-No. (□□)
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 : F-A
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14.6. □□□□ □□ □□ □□□□

□□ □□
 □□ □□ (ADR)
 □□ □□ (ADR)
 □□□ (ADR)

: C3
 : 274
 : II

BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

□□□(ADR) : E2
 □□ □□(ADR) : P001, IBC02
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 □□□ □□ □□ □□□□ □□ (ADR) : T11
 □□□ □□ □□ □□□□ □□ □□ (ADR) : TP2, TP27
 □□ □□(ADR) : L4BN
 □□ □□□ □□ : AT
 □□ □□(ADR) : 2
 □□ □□ □□(Kemler □□) : 80
 Orange plates (□□□□□□) :



□□ □□ □□ (ADR) : E
 EAC □□ : 2X

□□ □□
 □□ □□ (IMDG) : 274
 □□ □□(IMDG) : 1 L
 □□□(IMDG) : E2
 □□ □□ (IMDG) : P001
 IBC □□ □□(IMDG) : IBC02
 □□ □□ (IMDG) : T11
 □□ □□ □□ (IMDG) : TP2, TP27
 □□ □□ (IMDG) : B
 □□ □□ □□(IMDG) : SW2
 □□(IMDG) : SGG1, SG36, SG49
 □□□ □□□□ (IMDG) : Causes burns to skin, eyes and mucous membranes.
 MFAG-□□ : 153

□□ □□
 PCA □□ □□(IATA) : E2
 PCA □□ □□(IATA) : Y840
 PCA □□ □□ □□ □□□(IATA) : 0.5L
 PCA □□ □□(IATA) : 851
 PCA □□ □□□(IATA) : 1L
 CAO □□ □□ □□(IATA) : 855
 CAO □□ □□□(IATA) : 30L
 □□ □□(IATA) : A3, A803
 ERG □□(IATA) : 8L

□□ □□ □□
 □□ □□(ADN) : C3
 □□ □□(ADN) : 274
 □□□(ADN) : 1 L
 □□□(ADN) : E2
 □□□□(ADN) : T
 □□ □□(ADN) : PP, EP
 □□ □□/□□□ □□(ADN) : 0

□□ □□
 □□ □□(RID) : C3
 □□ □□(RID) : 274
 □□ □□(RID) : 1L
 □□□(RID) : E2
 □□ □□ (RID) : P001, IBC02
 □□ □□ □□ □□ □□(RID) : MP15
 □□□ □□ □□ □□□□ □□ (RID) : T11
 □□□ □□ □□ □□□□ □□ □□ (RID) : TP2, TP27
 RID □□□ □□ □□(RID) : L4BN
 □□ □□(RID) : 2

BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SZW-lijst van mutagene stoffen : □□ □□ □□□
 SZW-lijst van reprotoxische stoffen – Borstvoeding : □□ □□ □□□
 SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : □□ □□ □□□
 SZW-lijst van reprotoxische stoffen – Ontwikkeling : □□ □□ □□□

□□□

□□□ □□ □□ : 18□ □□ □□□ □□ □□□ □□□□□□
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15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

□□ 16: □ □□ □□□□

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ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	□□ □□ □
BOD	Biochemical oxygen demand (BOD)
CAS □□	□□□□ □□ □□ □□(CAS)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	□□□ □□ □□□
CSA	□□ □□ □□□ □□
DMEL	Derived Minimal Effect level
DNEL	□□ □□□ □□
EC □□	□□ □□□ □□
EC50	Median effective concentration
ED	□□□ □□□□
EN	□□ □□
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration

BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	□□□ □□ □□
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	□□ □□□□ □□
PPE	□□ □□□
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	□□□□□□□□
STP	Sewage treatment plant
TF	□□□ □□
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
COV	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	□□ □□ □□□

□H□ □ EUH□ □□:	
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□□ □□□□ 1	□□□□ □□□ - □□, □□ 1
□□ □□□□ 1B	□□ □□□□/□□ □□□, □□ 1, □□□□ 1B
H302	□□□ □□□.
H312	□□□ □□□□ □□□.
H314	□□□ □□ □□□ □ □□□ □□□.
H400	□□□□□□ □□ □□□.

□□□□□□□□(SDS), EU

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