

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: 01790 Issue date: 4/9/2014 Revision date: 12/20/2024 Supersedes version of: 12/7/2017 Version: 1.1

SECTION 1: Identification of the substan	nce/mixture and of the company/undertaking
1.1. Product identifier	
Trade name	: Mixture : BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE : 01790 : Solution : $CI \xrightarrow{-} CH_3$ $H \xrightarrow{-} CH_2(CH_2)_nCH_3$
Synonyms	: Alkyl Dimethyl benzyl ammonium chloride 50% Solution
1.2. Relevant identified uses of the substance	e or mixture and uses advised against
	: Laboratory chemicals, Manufacture of substances : Reagent
1.3. Details of the supplier of the safety data	sheet
LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA T +91 22 6663 6663, F +91 22 6663 6699 info@lobachemie.com, www.lobachemie.com	
1.4. Emergency telephone number	
Emergency number	: + 91 22 6663 6663 (9:00am - 6:00 pm)
SECTION 2: Hazards identification 2.1. Classification of the substance or mixtu	re
Classification according to Regulation (EC) No. 12	
Acute toxicity (oral), Category 4 Skin corrosion/irritation, Category 1, Sub-Category 1B Hazardous to the aquatic environment – Acute Hazard Category 1 Full text of H- and EUH-statements: see section 16	H302 H314
Adverse physicochemical, human health and envi	ronmental effects
Harmful if swallowed. Causes severe skin burns and e	eye damage. Very toxic to aquatic life.
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/2 Hazard pictograms (CLP)	
Signal word (CLP) Contains	GHS05 GHS07 GHS09 : Danger : BENZALKONIUM CHLORIDE

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Hazard statements (CLP)	: H302 - Harmful if swallowed.
	H314 - Causes severe skin burns and eye damage.
	H400 - Very toxic to aquatic life.
Precautionary statements (CLP)	: P273 - Avoid release to the environment.
	P280 - Wear protective gloves, protective clothing, eye protection, face protection.
	P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	Rinse skin with water .
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BENZALKONIUM CHLORIDE	CAS-No.: 63449-41-2 EC-No.: 264-151-6 EC Index-No.: 612-140-00-5	49 – 51	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Aquatic Acute 1, H400
WATER	CAS-No.: 7732-18-5 EC-No.: 231-791-2	49 – 51	Not classified

Full text of H- and EUH-statements: see section 16

## **SECTION 4: First aid measures**

4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	<ul> <li>Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.</li> </ul>
First-aid measures after skin contact	: Wash with plenty of water/ Wash contaminated clothing before reuse. Get medical advice/attention. Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	<ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Call a physician immediately.</li> </ul>
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Do not induce vomiting. Call a physician immediately.
First-aid measures for first aider	: First aid workers will be equipped with suitable personal protective equipment.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/effects Symptoms/effects after inhalation	<ul><li>Causes severe skin burns and eye damage.</li><li>None under normal conditions.</li></ul>

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Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant
	health hazard. Harmful in contact with skin. Burns.
Symptoms/effects after eye contact	: Causes serious eye damage. Serious damage to eyes.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed. Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Carbon dioxide. Dry powder. Foam. Water spray.</li><li>Do not use a heavy water stream.</li></ul>
5.2. Special hazards arising from the subs	tance or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	<ul> <li>No fire hazard.</li> <li>No direct explosion hazard.</li> <li>Toxic fumes may be released.</li> </ul>
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	<ul> <li>Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>

SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
For non-emergency personnel	
Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area. Evacuate unnecessary personnel. Stop leak if safe to do so.
6.2. Environmental precautions	

Avoid release to the environment. Very toxic to aquatic life.

6.3. Methods and material for containment and cleaning up	
For containment	: Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up	: Take up liquid spill into absorbent material. Collect spillage. On land, sweep or shovel into suitable containers.
Other information	: Dispose of materials or solid residues at an authorized site.

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### 6.4. Reference to other sections

#### For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling Hygiene measures	<ul> <li>Not expected to present a significant hazard under anticipated conditions of normal use.</li> <li>Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.</li> <li>Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash</li> </ul>
7.2. Conditions for safe storage, inclu	contaminated clothing before reuse. Always wash hands after handling the product.
Technical measures Storage conditions Packaging materials	<ul> <li>Keep in a cool, well-ventilated place away from heat.</li> <li>Store in a well-ventilated place. Keep container tightly closed. Store locked up.</li> <li>Store always product in container of same material as original container.</li> </ul>
7.3. Specific end use(s)	

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

#### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### **Personal protection equipment**

Personal protective equipment: Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



#### Eye and face protection

**Eye protection:** Chemical goggles or safety glasses

#### **Skin protection**

Skin and body protection: Wear a mask

Hand protection: Protective gloves

Respiratory protection

**Respiratory protection:** Wear appropriate mask

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#### **Environmental exposure controls**

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Dhundardatata	1.1
Physical state	: Liquid
Colour	: Pale yellow.
Appearance	: almost clear. Liquid.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: > 100 °C
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 250 °C
Auto-ignition temperature	: 370 °C
Decomposition temperature	: > 140 °C
pH	: 6-9
pH solution concentration	: 10 %
Viscosity, kinematic	: 132.653 mm²/s
Viscosity, dynamic	: 130 mPa⋅s at 20 °C
Solubility	: Water: Miscible with water
	Ethanol: Miscible with Ethanol
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 120 hPa at 20 °C
Vapour pressure at 50°C	: Not available
Density	: 0.98 g/cm³ at 20°C
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Overheating.

10.5. Incompatible materials

No additional information available

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## **10.6. Hazardous decomposition products**

Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information	
11.1. Information on hazard classes as define	ed in Regulation (EC) No 1272/2008
Acute toxicity (oral) :	Harmful if swallowed.
Acute toxicity (dermal) :	Not classified
Acute toxicity (inhalation) :	Not classified
BENZALKONIUM CHLORIDE AQUEOUS SOL	UTION 50% EXTRA PURE
ATE CLP (oral)	980.392 mg/kg bodyweight
Skin corrosion/irritation :	Causes severe skin burns. pH: 6 – 9
WATER (7732-18-5)	
рН	6 – 8 at 25 °C
Serious eye damage/irritation :	Assumed to cause serious eye damage pH: 6 – 9
WATER (7732-18-5)	
рН	6 – 8 at 25 °C
Respiratory or skin sensitisation :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Reproductive toxicity :	Not classified
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
Aspiration hazard :	Not classified
BENZALKONIUM CHLORIDE AQUEOUS SOL	UTION 50% EXTRA PURE
Viscosity, kinematic	132.653 mm²/s
WATER (7732-18-5)	
Viscosity, kinematic	0.894 mm²/s
11.2. Information on other hazards	
Other information	
Potential adverse human health effects and : symptoms	Harmful if swallowed,Harmful in contact with skin.

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general Ecology - water Hazardous to the aquatic environment, short–term (acute) Hazardous to the aquatic environment, long–term (chronic)	<ul> <li>Very toxic to aquatic life.</li> <li>Very toxic to aquatic life.</li> <li>Very toxic to aquatic life.</li> <li>Not classified</li> </ul>	

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12.2. Persistence and degradability	
BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE	
Persistence and degradability Rapidly degradable	
BENZALKONIUM CHLORIDE (63449-41-2)	
Persistence and degradability	Rapidly degradable
WATER (7732-18-5)	
Persistence and degradability	Rapidly degradable
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	
No additional information available	

SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Regional waste regulation Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations	<ul> <li>Disposal must be done according to official regulations.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Disposal must be done according to official regulations.</li> <li>Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be done according to official regulations.</li> </ul>
Additional information	: Do not re-use empty containers.

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	<ul> <li>: UN 3265</li> </ul>
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN)	<ul> <li>CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.</li> </ul>

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

## 14.3. Transport hazard class(es)

Α	D	R

Transport hazard class(es) (ADR) Danger labels (ADR)



#### IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)



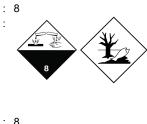
## ΙΑΤΑ

Transport hazard class(es) (IATA) Danger labels (IATA)

#### ADN

Transport hazard class(es) (ADN) Danger labels (ADN)

RID Transport hazard class(es) (RID) Danger labels (RID)



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## 14.4. Packing group

Packing group (ADR)
Packing group (IMDG)
Packing group (IATA)

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14.5. Environmental hazards         Dangarous for the environment       : Yes         EmRNo. (spillage)       :: SA         EmRNo. (spillage)       :: SA         EmRNo. (spillage)       :: SA         Other information       :: No supplementary information available         14.6. Special procession for user         Overland transport         Cassification code (DR)       :: C3         Special provisions (ADR)       :: 1         Excepted quantities (ADR)       :: 1         Excepted quantities (ADR)       :: 1         Packing instructions (ADR)       :: 1000, IBC02         Mixed pacing provisions (ADR)       :: 11         Portable tark and bulk container special provisions       : TP2, TP27         Valido for tark carriage       :: AT         Transcode (ADR)       :: 2         Acc code       :: 2X         Transport bases       :: 300         Orange plates       :: 2X         Transport by sea       :: 2X         Transport by sea       :: 2X         Special provisions (MDG)       :: 11         Excepted quantities (MDG)       :: 11         Excepted quantities (MDG)       :: 12         Excepted quantitis (MDG)       : 12	Packing group (ADN)	:
Dargerous for the environment       : Yes         Manne polutant       : Yes         EmS-No. (Fin)       : F.A         EmS-No. (Splidge)       : S.B         Order information       : No supplementary information available         14.6. Special precautions for user         Overland transport         Classification code (ADR)       : C.3         Special provisions (ADR)       : I         Excepted quantities (ADR)       : I         Excepted quantities (ADR)       : II         Excepted quantities (ADR)       : II         Packing instructions (ADR)       : PO1. IBC02         Mixed packing provisions (ADR)       : TP2. TP27         Oxtalia tark and buk container instructions (ADR)       : TP2. TP27         CARN       : Z         Tank code (ADR)       : LABN         Vahicle for tark carriage       : AT         Transport gase       : 80         Orange plates       : 80         Orange plates       : 2X         Tunner restriction code (ADR)       : E         EAC code       : 2X         Transport gase       : 2         Special provisions (IMDG)       : 1         Excopted quantities (MOG)       : 1         Excopted qu	Packing group (RID)	: 11
Marine pollutant         : Yes           EnNS-No. (Fre)         : F-A           EnNS-No. (Splilage)         : S-B           Other information         : No supplementary information available <b>14.6. Special proceutions for user Corriant famport</b> : C3           Gassification code (ADR)         : 274           Limited quantities (ADR)         : 214           Corriant instructions (ADR)         : 11           Excepted quantities (ADR)         : P2. 152.7           Mark park portions (ADR)         : P101 IBC02           Mark park portions (ADR)         : T11           Portable lank and bulk container instructions (ADR)         : T11.           Portable lank and bulk container special provisions         : TP2. TP2.T           (ADR)         : TP2. TP2.T           (ADR)         : L4BN           Vehicle for tank carriage         : AT           Tansport ottops(V (ADR)         : 2           Hazard dentification number (Kemiler No.)         : 80           Orange plates         : 2X           Tansport ottops(V (ADR)         : 2           Hazard dentification number (Kemiler No.)         : 80           Orange plates         : 2X           Tansing ottops(V (MDG)         : 1     <	14.5. Environmental hazards	
EmS-No. (Sping)         : F-A           Borsho. (Sping)         : No supplementary information available <b>146. Special proceutions for user</b> Content transport         : C3           Cassification code (ADR)         : C3           Special provisions (ADR)         : 274           Limited quantities (ADR)         : 1           Excepted quantities (ADR)         : 1           Excepted quantities (ADR)         : 1           Packing instructions (ADR)         : P01. IBC02           Mixed packing provisions (ADR)         : P12. TP27           Otable tank and buk container special provisions         : TP2. TP27           Ortable tank and buk container special provisions         : TP2. TP27           Varicle for tank carriago         : AT           Transport category (ADR)         : 2           Hazard dentification number (Kemter No.)         : 80           Orange plates         : 80           Special provisions (IMCG)         : 274           Limited quantities (IMDG)         : 1           EAC code         : 274           Limited quantities (IMDG)         : 1           Eacple doard informations (IMDG)         : 1           Eacple doard informations (IMDG)         : 1           Micansport	-	
Ems-No. (Splingap): S-BOrder information: No supplementary information available14.6. Special procautions for userClassification code (ADR): C3Special provisoms (ADR): 274Limited quantities (ADR): E1Decreted quantities (ADR): Pool, IBC02Packing instructions (ADR): Pool, IBC02Naked packing provisoms (ADR): T11Portable tank and buk container instructions (ADR): T12, TP27(ADR): LABNVehicle for tank carriage: ATTransport dispory (ADR): 2Hazard Identification number (Kemiler No.): 80Orange plates: 2Carriage (ADR): EEAC code: 2XTransport dispory (ADR): 11Each code (ADR): EEach code (ADR): 2Unnet restriction code (ADR): 2Carriage instructions (MDG): 2Carriage instructions (MDG): 11Carriage instructions (MDG): 11Each code: 2Packing instructions (MDG): 11Carriage instructions (MDG): 11Each code instructions (MDG): 12Each code instructions (MDG): 12Each code instructions (MDG): 12		
Other information       : No supplementary information available         14.6. Special processions for user         Overland transport       :: C3         Gassification code (ADR)       :: 274         Limited quantities (ADR)       :: 274         Packing instructions (ADR)       :: E2         Packing instructions (ADR)       :: II         Excepted quantities (ADR)       :: IV1         Portable tank and bulk container special provisions       :: TP2. TP27         (ADR)       :: L4BN         Vehicle for tank carriage       :: AT         Transport category (ADR)       :: B00         0'acde (ADR)       :: E         EAC code       :: 274         Limited quantities (MDG)       :: B         Special provisions (MDG)       :: 274         Limited quantities (MDG)       :: 11         Crasport by soa       :: 500         Special provisions (MDG)       :: 11         Crasport by soa       :: 500         Special provisions (MDG)       :: 11         Tank special provisions (MDG)       :: 11         Transport by soa       :: 500         Special provisions (MDG)       :: 11         Transport by soa       :: 500         Special provisions (MDG)		
14.6. Special precautions for user         Overland transport         Constitution code (ADR)         1       Excepted quantities (ADR)         1       Excepted quantities (ADR)         1       Excepted quantities (ADR)         1       Portable tark and bulk container instructions (ADR)         1       Portable tark and bulk container instructions (ADR)         1       Transport bulk container instructions (ADR)         1       Portable tark and bulk container instructions (ADR)         1       Transport bulk container instructions (ADR)         1       Excepted quantities (MOR)         2       Hazard dentification number (Kemier No.)         2       Excepted quantities (MOR)         2       Excepted quantities (MOG)         3       Excepted quantities (MOG)         3		
Overland transport::Classification code (ADR)::::Classification code (ADR)::::Pecking instructions (ADR)::::Excepted quantilies (ADR)::::Packing instructions (ADR)::::Portable tank and bulk container instructions (ADR)::::Portable tank and bulk container special provisions::::Tank code (ADR)::::::Vehicle for tank carriage::::::Tansport category (ADR)::::::Vehicle for tank carriage::::::Stead Gentification number (Kemler No.)::::::Stead Gentification number (Kemler No.)::::::Packing instructions (MDG)::::::::Packing instructions (MDG) <t< td=""><td>Other Information</td><td>: No supplementary information available</td></t<>	Other Information	: No supplementary information available
Classification code (ADR) : C3 Special provisions (ADR) : 11 Excepted quantities (ADR) : 274 Authined quantities (ADR) : 2001, IBC02 Mixed packing provisions (ADR) : W175 Portable tank and bulk container instructions (ADR) : 111 Portable tank and bulk container instructions (ADR) : 111 Portable tank and bulk container instructions (ADR) : 111 Portable tank and bulk container special provisions : 1292, T277 (ADR) Tank code (ADR) : 248N Vehicle for tank carriage : AT Transport category (ADR) : 2 Pacific tank carriage : AT Transport category (ADR) : 2 Pacific tank carriage : 300 Crange plates : 300 Crange plates : 300 Crange plates : 300 Crange plates : 2 Pacific tank carriage : 2 Pacific	14.6. Special precautions for user	
Special provisions (ADR)       : 274         Limided quantities (ADR)       : 11         Excepted quantities (ADR)       : P001, IBC02         Mixed packing provisions (ADR)       : MP15         Portable tark and buik container special provisions       : TP2, TP27         (ADR)       : L4BN         Vehicle for tank carriage       : AT         Transport category (ADR)       : E         Packing instructions (ADR)       : B0         Orange plates       : B0         Orange plates       : B0         Transport category (ADR)       : E         EAC code       : 224         EAC code       : 224         EAC code       : 274         Limited quantities (IMDG)       : 11         Code       : 274         Limited quantities (IMDG)       : 11         Excepted quantities (IMDG)       : 11         Code instructions (IMDG)       : 110         Stowage category (IMDG)       : 110         Stowage category (IMDG)       : 110         <		
Limited quantities (ADR) : 11 Excepted quantities (ADR) : E2 Packing instructions (ADR) : MP15 Portable tank and buik container instructions (ADR) : T11 Portable tank and buik container instructions (ADR) : T12 Portable tank and buik container special provisions : TP2, TP27 (ADR) : L4BN Vehicle for tank carriage : AT Transport category (ADR) : 2 Hazard identification number (Kemler No.) : 80 Orange plates : <b>80</b> Social provisions (MDC) : 2 EE EAC code (ADR) : 2 Packing instructions (MDG) : 274 Limited quantities (MDG) : 11 Limited quantities (MDG) : 274 Limited quantities (MDG) : 274 Acking instructions (MDG) : 274 Limited quantities (MDG) : 274 Packing instructions (MTA) : 256 Packing instructions (MTA) : 257 Packing instructions (MTA) : 258 Packing instructions (MTA) : 258 P		
Excepted quantities (MDG) E274 Protein enstructions (ADR) AT 11 Portable tank and bulk container instructions (ADR) T11 Portable tank and bulk container instructions (ADR) T11 Portable tank and bulk container instructions (ADR) T11 Portable tank and bulk container special provisions TP2. TP27 (ADR) Tank code (ADR) L48N Vehicle for tank carriage AT Transport ategraper (ADR) 2 Hazard identification number (Kemler No.) 3 80 Transport ategraper (ADR) 2 Transport ategraper (ADR) 2 Transport ategraper (ADR) 2 EAC code 2 Packing instructions (MDG) 2 EAC code 2 Packing instructions (MDG) 2 EC22 Packing instructions (MDG) 2 E162 Packing instructions (MDG) 2 E162 Packing instructions (MDG) 2 E74 EXcepted quantities (MDG) 3 E72 Farks great provisions (MDG) 4 E74 EXcepted quantities (MDG) 4 E74 EXCEPTED 4 EXCEPTED 4 EXCEP		
Packing instructions (ADR) : P001, IEC02 Mixed packing provisions (ADR) : VH15 Portable tank and bulk container instructions (ADR) : T11 Portable tank and bulk container special provisions : TP2, TP27 (ADR) : L48N Vehicle for tank carriage : AT Transport category (ADR) : 2 Packing instructions (MDG) : 2 Packing instructions (MDG) : 2 Packing instructions (MDG) : 2 Packing instructions (MDG) : 1 Excepted quantities (MDG) : 1 Packing instructions (MDG) : 2 Packing instructions (MDG) : 2 Packin		
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Transport category (ADR) : 2 Hazard identification number (Kemler No.) : 80 Orange plates : 80 J2265 Tunnel restriction code (ADR) : E EAC code : 2X Transport by sea Special provisions (MDG) : 274 Limited quantities (IMDG) : 1 L Excepted quantities (IMDG) : 214 Limited quantities (IMDG) : 1 E Packing instructions (IMDG) : 1 E Tark instructions (IMDG) : 1 BC02 Tark instructions (IMDG) : 1 TP2, TP27 Stowage category (IMDG) : 1 SW2 Segregation (IMDG) : 2 SW2 Segregation (IMDG) : 1 SW2 Segregation (IMDG) : 1 SW2 Segregation (IMDG) : 2 SW2 Segregation (IMDG) : 1 SW2 Segregation (IMDG) : 1 SW2 Segregation (IMDG) : 1 SW2 Segregation (IMDG) : 1 SW2 Segregation (IMDG) : 2 SW2 Segregation (IMDG) : 3 SW2 Segregation (IMDG) :		
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Excepted quantities (IMDG):E2Packing instructions (IMDG):P001IBC packing instructions (IMDG):IBC02Tank instructions (IMDG):T11Tank special provisions (IMDG):TP2, TP27Stowage category (IMDG):BStowage and handling (IMDG):SW2Segregation (IMDG):SG61, SG36, SG49Properties and observations (IMDG):Causes burns to skin, eyes and mucous membranes.MFAG-No:153Air transport:E2PCA Excepted quantities (IATA):E2PCA Limited quantities (IATA):Y840PCA aking instructions (IMTA):0.5LPCA ax net quantity (IATA):0.5LPCA max net quantity (IATA):11CAO packing instructions (IATA):855CAO max net quantity (IATA):30LSpecial provisions (IATA):84.Inland waterway transport:C3Classification code (ADN):C3Special provisions (ADN):274		
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Stowage and handling (IMDG)       : SW2         Segregation (IMDG)       : SGG1, SG36, SG49         Properties and observations (IMDG)       : Causes burns to skin, eyes and mucous membranes.         MFAG-No       : 153         Air transport       PCA Excepted quantities (IATA)       : E2         PCA Limited quantities (IATA)       : Y840         PCA limited quantity max net quantity (IATA)       : 0.5L         PCA packing instructions (IATA)       : 851         PCA max net quantity (IATA)       : 11         CAO packing instructions (IATA)       : 30L         Special provisions (IATA)       : A3, A803         ERG code (IATA)       : 8L         Inland waterway transport       C3         Classification code (ADN)       : 274		
Segregation (IMDG)       :       SGG1, SG36, SG49         Properties and observations (IMDG)       :       Causes burns to skin, eyes and mucous membranes.         MFAG-No       :       153         Air transport       PCA Excepted quantities (IATA)       :       E2         PCA Limited quantities (IATA)       :       Y840         PCA limited quantity max net quantity (IATA)       :       0.5L         PCA packing instructions (IATA)       :       851         PCA max net quantity (IATA)       :       1L         CAO packing instructions (IATA)       :       855         CAO max net quantity (IATA)       :       30L         Special provisions (IATA)       :       8L         Inland waterway transport       :       Classification code (ADN)         Classification code (ADN)       :       C3         Special provisions (ADN)       :       274		
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Special provisions (IATA)       : A3, A803         ERG code (IATA)       : 8L         Inland waterway transport		
ERG code (IATA) : 8L   Inland waterway transport   Classification code (ADN)   : C3   Special provisions (ADN)   : 274		
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Classification code (ADN)       : C3         Special provisions (ADN)       : 274	Inland waterway transport	
Special provisions (ADN) : 274		: C3
		: 274

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Limited quantities (ADN) Excepted quantities (ADN) Carriage permitted (ADN) Equipment required (ADN) Number of blue cones/lights (ADN)	:	1 L E2 T PP, EP 0
Rail transport		
Classification code (RID)	:	C3
Special provisions (RID)	:	274
Limited quantities (RID)	:	1L
Excepted quantities (RID)	:	E2
Packing instructions (RID)	:	P001, IBC02
Mixed packing provisions (RID)	:	MP15
Portable tank and bulk container instructions (RID)	:	T11
Portable tank and bulk container special provisions (RID)	:	TP2, TP27
Tank codes for RID tanks (RID)		L4BN
Transport category (RID)	-	2
Colis express (express parcels) (RID)	:	CE6
Hazard identification number (RID)	:	80

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## **SECTION 15: Regulatory information**

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

#### **EU-Regulations**

#### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(b)	BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE
3(c)	BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

#### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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#### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### National regulations

France

Occupational diseases		
Code	Description	
RG 66	Occupational rhinitis and asthma	
Germany		
VOC ordinance (ChemVOCI	FarbV)	:
Water hazard class (WGK) Hazardous Incident Ordinan	ce (12. BlmSchV)	<ul> <li>WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).</li> <li>Is not subject to the Hazardous Incident Ordinance (12. BImSchV)</li> </ul>
Netherlands		
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling		<ul> <li>None of the components are listed</li> </ul>
Denmark		
Danish National Regulations :		: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

**15.2. Chemical safety assessment** 

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Abbreviations and acronyms:		
ACGIH	American Conference of Governement 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	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
CAS-No.	Chemical Abstract Service number	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
COD	Chemical oxygen demand (COD)	
CSA	Chemical safety assessment	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	

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Abbreviations and	acronyms:
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
ΙΑΤΑ	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)
МАК	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
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	Occupational Exposure Limit
OSHA	Occupational Safety & Health Administration
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1

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Full text of H- and EUH-statements:	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.