(in accordance with Regulation (EU) 2020/878)



94324-Benzalkonium chloride 50 per cent

Date of compilation: 4/11/2015

Page 1 of 12 Print date: 21/09/2023 **Version 6 (replaces version 5)** Revision date: 21/09/2023

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: Benzalkonium chloride 50 per cent

Product Code: 94324

1.2 Relevant identified uses of the substance or mixture and uses advised against.

Biocide

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

GUINAMA Company: Address: C/ Oslo Nº3

46185 La Pobla de Vallbona City:

Province: Valencia

Telephone: +34961869090 / 902119816

+34961850352 Fax: E-mail: ventas@guinama.com Web: www.guinama.com

1.4 Emergency telephone number: +34961869090 / 902119816 (Only available during office hours; Monday-Friday; 08:00-

18:00)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture.

In accordance with Regulation (EC) No 1272/2008:

Acute Tox. 4: Harmful if swallowed. Aquatic Acute 1: Very toxic to aquatic life.

Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects.

Eye Dam. 1: Causes serious eye damage.

Skin Corr. 1B: Causes severe skin burns and eye damage.

2.2 Label elements.

Labelling in accordance with Regulation (EC) No 1272/2008:

Pictograms:







Signal Word:

Danger

Hazard statements:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

Do not breathe dust/fume/gas/mist/vapours/spray. P260

Wash ... thoroughly after handling. P264

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

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

(in accordance with Regulation (EU) 2020/878)



94324-Benzalkonium chloride 50 per cent

Date of compilation: 4/11/2015

Page 2 of 12 Revision date: 21/09/2023 Print date: 21/09/2023 **Version 6 (replaces version 5)**

IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell P301+P312 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or

shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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/doctor/... P321 Specific treatment (see ... on this label).

P330 Rinse mouth

P363 Wash contaminated clothing before reuse.

P391 Collect spillage. P405 Store locked up.

P501 Dispose of contents/container to ...

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

2.3 Other hazards.

The mixture does not contain substances classified as PBT.

The mixture does not contain substances classified as vPvB.

The mixture does not contain any endocrine disrupting properties substances.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

			(*)Classification - Regulation (EC) No 1272/2008	
Identifiers	Name	Concentrate	Classification	Specifics concentration limits and Acute toxicity estimate
CAS No: 68424-85-1 EC No: 270-325-2	Quaternary ammonium compounds, benzyl-C12- 16-alkyldimethyl, chlorides	25 - 75 %	Acute Tox. 4, H302 - Aquatic Acute 1, H400 (M=10) - Aquatic Chronic 1, H410 - Eye Dam. 1, H318 - Skin Corr. 1B, H314	-
Index No: 603-002- 00-5 CAS No: 64-17-5 EC No: 200-578-6 Registration No: 01- 2119457610-43-XXXX	ethanol, ethyl alcohol	1 - 10 %	Eye Irrit. 2, H319 - Flam. Liq. 2, H225	-

^(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

^[2] Substance with a national workplace exposure limit (see section 8.1).

(in accordance with Regulation (EU) 2020/878)

94324-Benzalkonium chloride 50 per cent



Date of compilation: 4/11/2015 **Version 1**

Page 3 of 12 Revision date: 21/09/2023 Print date: 21/09/2023 **Version 6 (replaces version 5)**

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

Eye contact.

Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Dont let the person to rub the affected eye.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners. The use of personal protective equipment is recommended for people providing first aid (see section 8).

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

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

Corrosive Product, contact with eyes or skin can cause burns; ingestion or inhalation can cause internal damage, if this occurs immediate medical assistance is required.

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

Contact with eyes may cause irreversible damage.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract.

SECTION 5: FIREFIGHTING MEASURES.

The product does not present any particular risk in case of fire.

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture.

Special risks.

Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Product residues and extinguishing media may contaminate the aquatic environment.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the

6.3 Methods and material for containment and cleaning up.

(in accordance with Regulation (EU) 2020/878)



94324-Benzalkonium chloride 50 per cent

Date of compilation: 4/11/2015

Page 4 of 12 **Version 6 (replaces version 5)** Revision date: 21/09/2023 Print date: 21/09/2023

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 15 and 25 °C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

		Qualifying quant the applic	
Code	Description	Lower-tier requirements	Upper-tier requirements
E1	ENVIRONMENTAL HAZARDS - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1	100	200

7.3 Specific end use(s).

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Туре	Value
	DNEL	Inhalation, Chronic, Systemic effects	950
	(Workers)		(mg/m³)
	DNEL	Inhalation, Chronic, Systemic effects	114
	(Consumers)		(mg/m³)
	DNEL	Dermal, Chronic, Systemic effects	343
	(Workers)		(mg/kg
ethanol, ethyl alcohol			bw/day)
CAS No: 64-17-5	DNEL	Dermal, Chronic, Systemic effects	206
EC No: 200-578-6	(Consumers)		(mg/kg
LC NO. 200-376-0			bw/day)
	DNEL	Inhalation, Chronic, Local effects	1900
	(Workers)		(mg/m3)
	DMEL	Inhalation, Short term, Local effects	950
	(Consumers)		(mg/m3)
	DMEL	Oral, Chronic, Systemic effects	87 (mg/kg)
	(Consumers)	-	

(in accordance with Regulation (EU) 2020/878)



94324-Benzalkonium chloride 50 per cent

Version 1 Date of compilation: 4/11/2015 Page 5 of 12
Version 6 (replaces version 5) Revision date: 21/09/2023 Print date: 21/09/2023

DMEL	Inhalation, Chronic, Systemic effects	114
(Consumers)		(mg/m3)
DMEL	Dermal, Chronic, Systemic effects	206
(Consumers)		(mg/kg)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
	Fresh water	0,96 (mg/L)
	Marine water	0,79 (mg/L)
	aqua (intermittent releases)	2,75 (mg/L)
	Soil	0,63 (mg/kg
ethanol, ethyl alcohol		soil dw)
CAS No: 64-17-5	sediment (freshwater)	3,6 (mg/kg
EC No: 200-578-6		sediment dw)
	STP	580 (mg/L)
	sediment (marine water)	2,9 (mg/kg
		sediment dw)
	oral	0,38 (g/kg
		food)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %			
Uses:	Biocide			
Breathing protect	tion:			
PPE:	Filter mask for protection against gases and particles.			
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.			
CEN standards:	EN 136, EN 140, EN 405			
Maintenance:	Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.			
Observations:	Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.			
Filter Type needed:				
Hand protection:				
PPE:	Non-disposable protective gloves against chemicals.			
Characteristics:	«CE» marking, category III. Check the list of chemicals for which the glove has been tested.			
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420			
Maintenance:	A schedule for the periodical replacement of gloves should be established in order to guarantee their replacement before pollutants permeate them. The use of contaminated gloves could be more dangerous than not using gloves, since the pollutant can gradually accumulate in the glove's material.			
Observations:	They are to be replaced whenever tears, cracks or deformations are observed or when exterior dirt could reduce their strength.			
Material:	PVC (polyvinyl chloride) Breakthrough time (min.): Material thickness (mm): 0,35			
Eye protection:				
PPE:	Protective goggles with built-in frame.			
Characteristics:	«CE» marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour.			
CEN standards:	EN 165, EN 166, EN 167, EN 168			
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.			

(in accordance with Regulation (EU) 2020/878)



Page 6 of 12

94324-Benzalkonium chloride 50 per cent

Version 1 Date of compilation: 4/11/2015

Version 6 (replaces version 5) Revision date: 21/09/2023 Print date: 21/09/2023

Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, Observations: scraping etc. Skin protection: PPE: Chemical protective clothing «CE» marking, category III. Clothing should fit properly. The level of protection Characteristics: must be set according to a test parameter called BT (Breakthrough Time), which indicates how long it takes for the chemical to pass through the material. EN 464,EN 340, EN 943-1, EN 943-2, EN ISO 6529, EN ISO 6530, EN 13034 CEN standards: In order to guarantee uniform protection, follow the washing and maintenance instructions provided by Maintenance: the manufacturer. The protective clothing's design should facilitate correct positioning, staying in place without moving for Observations: the period of use expected, bearing in mind environmental factors as well as any movement or position the user might adopt while carrying out the activity. PPF: Anti-static safety footwear against chemicals. «CE» marking, category III. Check the list of chemicals against which the footwear Characteristics: is resistant. EN ISO 13287, EN 13832-1, EN 13832-2, EN 13832-3, EN ISO 20344, EN ISO CEN standards: 20345 For correct maintenance of this kind of safety footwear, it is necessary to observe the instructions Maintenance: specified by the manufacturer. The footwear should be replaced as soon as any sign of damage is observed. The footwear should be cleaned regularly and dried when damp, although it should not be placed too Observations: close to a source of heat in order to avoid any sharp changes in temperature.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Physical state: Liquid

Colour: Colorless, slightly yellowish

Odour: Characteristic

Odour threshold: Not applicable/Not available due to the nature/properties of the product

Melting point: < 5 °C

Freezing point: Not applicable/Not available due to the nature/properties of the product

Boiling point or initial boiling point and boiling range: >100 °C

Flammability: Not applicable/Not available due to the nature/properties of the product

Lower explosion limit: Not applicable/Not available due to the nature/properties of the product Upper explosion limit: Not applicable/Not available due to the nature/properties of the product

Flash point: >93 °C

Auto-ignition temperature: Not applicable/Not available due to the nature/properties of the product Decomposition temperature: Not applicable/Not available due to the nature/properties of the product

pH: 6,0 - 8,0

Kinematic viscosity: Not applicable/Not available due to the nature/properties of the product

Solubility: Soluble in alcohols Hydrosolubility: Soluble

Liposolubility: Not applicable/Not available due to the nature/properties of the product

Partition coefficient n-octanol/water (log value): Not applicable/Not available due to the nature/properties of the product

Vapour pressure: Not applicable/Not available due to the nature/properties of the product Absolute density: Not applicable/Not available due to the nature/properties of the product

Relative density: 0,970

Relative vapour density: Not applicable/Not available due to the nature/properties of the product Particle characteristics: Not applicable/Not available due to the nature/properties of the product

9.2 Other information

Not applicable/Not available due to the nature/properties of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

(in accordance with Regulation (EU) 2020/878)

94324-Benzalkonium chloride 50 per cent

Date of compilation: 4/11/2015

Page 7 of 12 **Version 6 (replaces version 5)** Revision date: 21/09/2023 Print date: 21/09/2023

10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid.

Avoid any improper handling.

10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008.

Splatters in the eyes can cause irritation and reversible damage.

Toxicological information about the substances present in the composition.

Name		Acute toxicity			
		Туре	Test	Kind	Value
			LD50	Rat	7060 mg/kg bw [1]
			LD50	mouse	3 450 mg/kg bw [2]
		Oral	[1] Toxicol 1970	ogy and Applie	d Pharmacology. Vol. 16, Pg. 718,
ethanol, ethyl alcohol			[2] Publica (1992) loc.		g. Sanit. 32, 31. cited in RTECS
			DL50	Rabit	20000 mg/Kg (-) [1]
		Dermal			
			[1] -		
			CL50	Rat	124.7 mg/L (4h) [1]
CAS No: 64-17-5	EC No: 200-578-6	Inhalation			
CAS NO. 01-17-5	LC NO. 200 370-0		[1] -		

a) acute toxicity;

Product classified:

Acute toxicity (Oral), Category 4: Harmful if swallowed.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Oral) = 550 mg/kg

b) skin corrosion/irritation;

Product classified:

Skin Corrosive, Category 1B: Causes severe skin burns and eye damage.

c) serious eye damage/irritation;

Product classified:

Serious eye damage, Category 1: Causes serious eye damage.

d) respiratory or skin sensitisation;

Not conclusive data for classification.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity:

Not conclusive data for classification.

g) reproductive toxicity;

Not conclusive data for classification.

h) STOT-single exposure;

Not conclusive data for classification.

(in accordance with Regulation (EU) 2020/878)



94324-Benzalkonium chloride 50 per cent

Version 1 Date of compilation: 4/11/2015 Page 8 of 12
Version 6 (replaces version 5) Revision date: 21/09/2023 Print date: 21/09/2023

i) STOT-repeated exposure; Not conclusive data for classification.

j) aspiration hazard; Not conclusive data for classification.

11.2 Information on other hazards.

Endocrine disrupting properties

This product does not contain components with endocrine-disrupting properties with effects on human health.

Other information

There is no information available on other adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Nama	Ecotoxicity			
Name	Туре	Test	Kind	Value
	Fish	Molecular S	Structure and Aquation	11000 mg/l (96 h) [1] , and M. Tarkpea 1984. : Toxicity - an Example with hosphere 13(5/6):613-622
ethanol, ethyl alcohol	Aquatic invertebrates	LC50 EC50 LC50 LC50 LC50 LC50 LC50 LC50 LC50 L	Crustacean Crustacean Crustacean Ceriodaphnia dubia ashi, I.T., U.M. Cowgi n of Ethanol Toxicity nia dubia Tested at Ti e Toxicity Test Result n.Contam.Toxicol. 39 Renaudette, and W.J. ng the Acute Toxicity : Testing the Equilibi n and R.Purdy (Eds.), ntal Fate, 9th Volume a, PA:479-493 . Y., and W.J. Adams uestions About Daph o (Ed.), Aquatic Toxic at, 6th Symposium, At assay Using Daphnia xicol.Water Qual. 11(ashi, I.T., U.M. Cowgi n of Ethanol Toxicity nia dubia Tested at Ti e Toxicity Test Result n.Contam.Toxicol. 39 Renaudette, and W.J. ng the Acute Toxicity : Testing the Equilibi Testing the Equilibi	9280 mg/l (48 h) [1] 9950 mg/l (48 h) [2] 5012 mg/l (48 h) [3] II, and P.G. Murphy 1987. to Daphnia magna and wo Different Temperatures: ts. ((2):229-236. Ziegenfuss, Adams 1986. Methodology of Chemicals Sorbed to rium Partitioning Theory. In: Aquatic Toxicology and e, ASTM STP 921, 1983. Resolving Some nia Acute Toxicity Tests. In: tology and Hazard STM STP 802, Philadelphia, and A.E. Ronco 1996. Acute a obtusa as a Test Organism. (3):255-258 II, and P.G. Murphy 1987. to Daphnia magna and wo Different Temperatures: ts. ((2):229-236. Ziegenfuss, Adams 1986. Methodology of Chemicals Sorbed to rium Partitioning Theory. In: Aquatic Toxicology and
CAS No: 64-17-5 EC No: 200-578-6	Aquatic plants			

12.2 Persistence and degradability.

(in accordance with Regulation (EU) 2020/878)



94324-Benzalkonium chloride 50 per cent

Date of compilation: 4/11/2015

Page 9 of 12 Revision date: 21/09/2023 Print date: 21/09/2023 **Version 6 (replaces version 5)**

No information is available regarding the biodegradability of the substances present.

No information is available on the degradability of the substances present.

No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

Name		Bioaccumulation				
		Log Pow	BCF	NOECs	Level	
ethanol, ethyl alcohol		-0,31	2	_	Very low	
CAS No: 64-17-5	EC No: 200-578-6	-0,51	,	-	very low	

12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

12.7 Other adverse effects.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

No information is available about other adverse effects for the environment.

SECTION 13: DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading Air: Transport by plane: ICAO/IATA. Transport document: Airway bill.

(in accordance with Regulation (EU) 2020/878)



94324-Benzalkonium chloride 50 per cent

Date of compilation: 4/11/2015

Page 10 of 12 Revision date: 21/09/2023 Print date: 21/09/2023 **Version 6 (replaces version 5)**

14.1 UN number or ID number.

UN No: UN1760

14.2 UN proper shipping name.

Description:

ADR/RID: UN 1760, CORROSIVE LIQUID, N.O.S. (CONTAINS QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-

ALKYLDIMETHYL, CHLORIDES), 8, PG II, (E)

IMDG: UN 1760, CORROSIVE LIQUID, N.O.S. (CONTAINS QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-

ALKYLDIMETHYL, CHLORIDES), 8, PG II, MARINE POLLUTANT

ICAO/IATA UN 1760, CORROSIVE LIQUID, N.O.S. (CONTAINS QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES), 8, PG II

14.3 Transport hazard class(es).

Class(es): 8

14.4 Packing group.

Packing group: II

14.5 Environmental hazards.

Marine pollutant: Yes



Dangerous for the environment

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A,S-B

14.6 Special precautions for user.

Labels: 8



Hazard number: 80

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.

Proceed in accordance with point 6.

ADR LQ: 1 L IMDG LQ: 1 L ICAO LQ: 0,5 L

14.7 Maritime transport in bulk according to IMO instruments.

The product is not transported in bulk.

SECTION 15: REGULATORY INFORMATION.

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

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

(in accordance with Regulation (EU) 2020/878)

94324-Benzalkonium chloride 50 per cent



Version 1 Date of compilation: 4/11/2015 Page 11 of 12
Version 6 (replaces version 5) Revision date: 21/09/2023 Print date: 21/09/2023

SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Classification codes:

Acute Tox. 4: Acute toxicity (Oral), Category 4

Aquatic Acute 1: Acute toxicity to the aquatic environment, Category 1 Aquatic Chronic 1: Chronic effect to the aquatic environment, Category 1

Eye Dam. 1 : Serious eye damage, Category 1 Eye Irrit. 2 : Eye irritation, Category 2 Flam. Liq. 2 : Flammable liquid, Category 2 Skin Corr. 1B : Skin Corrosive, Category 1B

Changes regarding to the previous version:

- Changes in the information of the supplier (SECTION 1.3).
- Addition of precautionary statements/hazard statements/pictograms/signal word (SECTION 2.2).
- Modification of specific hazards (SECTION 2.3).
- Changes in the composition of the product (SECTION 3.2).
- Modification in the firefighting measures (SECTION 5.2).
- Modifications in the accidental release measures (SECTION 6.1).
- Modifications in the accidental release measures (SECTION 6.2).
- Modification in the values of the physical and chemical properties (SECTION 9).
- Modification of the information of the stability and reactivity conditions (SECTION 10.3).
- Modification of the information of the stability and reactivity conditions (SECTION 10.4).
 Modification of the information of the stability and reactivity conditions (SECTION 10.5).
- Modification of the information of the stability and reactivity conditions (SECTION 10.5).
 Modification of the information of the stability and reactivity conditions (SECTION 10.6).
- Modification of toxicity values (CECTION 11.1)
- Modification of toxicity values (SECTION 11.1).
- Change in the hazard classification (SECTION 11.1).
- Modification of ecological information values (SECTION 12.1).
- Modification of ecological information values (SECTION 12.3).
- Modification of the classification ADR/IMDG/ICAO/IATA/RID (SECTION 14).
- Elimination of abbreviations and acronyms (SECTION 16).
- Addition of abbreviations and acronyms (SECTION 16).

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards On basis of test data Health hazards Calculation method Environmental hazards Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Information on the TSCA Inventory (Toxic Substances Control Act) USA:

CAS No	Name	State
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Registered
64-17-5	ethanol, ethyl alcohol	Registered

(in accordance with Regulation (EU) 2020/878)

94324-Benzalkonium chloride 50 per cent



Version 1 Date of compilation: 4/11/2015 Page 12 of 12
Version 6 (replaces version 5) Revision date: 21/09/2023 Print date: 21/09/2023

Risk classification system NFPA 704:



Health hazard: 3 (Extreme Danger)

Flammability: 2 (Below 200°F)

Reactivity: 0 (Stable)

Specific hazard: COR (Corrosive)

Abbreviations and acronyms used:

ADR/RID: Agreement concerning the International Carriage of Dangerous Goods by Road.

BCF: Bioconcentration factor.

CEN: European Committee for Standardization.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be

considered a tolerable minimum.

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not

anticipated.

EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

NOEC: No observed effect concentration.

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are

not expected in the environmental compartment.

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data:

http://eur-lex.europa.eu/homepage.html

http://echa.europa.eu/ Regulation (EU) 2020/878. Regulation (EC) No 1907/2006. Regulation (EC) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.