

IND-2021-3981

Quito DM, 25 de enero del 2021

Estimado (a)
Señor (a) (ita)
Ciudad.-

**REF.: BIOSEGURIDAD: PRESENTACIÓN DE AMONIO
CUATERNARIO DE QUINTA GENERACIÓN**

Reciba un cordial saludo desde **Químicos CBG**, empresa perteneciente al Grupo Químico Indu-Quim, con trayectoria de 32 años en el mercado nacional e internacional entregando productos químicos genéricos y especialidades de elevada calidad y efectividad.

La presente tiene por finalidad poner a su amable consideración el poderoso agente químico de bioseguridad (importado) denominado amonio cuaternario concentrado (80 % de ingrediente activo), de **Quinta Generación**, conocido internacionalmente como Quat-5thG.

Químicos CBG pone en manos de sus clientes un producto certificado internacionalmente, único de la serie de amonios cuaternarios calificado por los CDC's de EE.UU. para atacar con éxito el SARS-CoV-2. Convenientemente diluido (e inclusive formulado o mezclado con otros ingredientes químicos para generar adecuada sinergia) encuentra amplia aplicación en:

- Industria alimenticia: Como agente de limpieza, esterilización y eliminación de agentes patógenos durante los procesos de producción, dentro de los estándares de concentración reglamentados por las autoridades de control sanitario para el mencionado ingrediente activo.
- Industria petrolera: Como agente eliminación de microorganismos en aguas de inyección para recuperación secundaria del petróleo.
- Para la producción de agentes desinfectantes multipropósitos.

- Para servicios de desinfección (por dilución) para sistemas de recirculación y control de microorganismos en plantas de agua, como también para el manejo y adecuado control de algas en piscinas y sistemas industriales.
- Para limpieza y sanitización de espacios de manufactura dentro de industrias productoras de todo tipo.
- Sistema hospitalario: Como agente de saneamiento de espacios y esterilización general de utensilios, equipos, ropa e implementos de trabajo.
- Veterinario y del hogar con el objetivo de controlar e inhibir el crecimiento microbiano a través de sus propiedades bacteriostáticas sobre superficies y lugares de concurrencia.

Amonio cuaternario de quinta generación es recomendado también por los CDC's de los EE.UU. para el mantenimiento y desinfección (a fondo) de vehículos y maquinaria en general, en forma de soluciones acuosas muy diluidas y ajustadas, preferentemente, a un pH entre 10 y 11. Dilución que puede realizarse inclusive con aguas de altas dureza y alcalinidad, sin que por ello se interfiera con el nivel de efectividad bactericida-virucida-algucida del ingrediente activo. Debiéndose resaltar, además, el poder residual del producto, en función de sus características físico-químicas que hacen que mantenga y perdure su eficiencia desinfectante por amplios periodos de tiempo.

Adjunto, como corresponde, sírvase encontrar la respectiva información técnica del producto, así como la lista de precios. Cabe mencionar que contamos con un servicio de asistencia técnica profesional de amplia experiencia, el cual brindará a usted (es) el asesoramiento técnico necesario para la correcta aplicación y manejo del mismo.


NOTA IMPORTANTE: Amonio cuaternario de quinta generación está también disponible en concentraciones al 50 %, 25 %, 10 %, según lo requiera el cliente.

ITEM	Tipo de presentación, Quat-5thG. al 80% (EMPAQUE)					
	TAMBOR 55 GAL		CANECA 5 GAL		GALONERA (3,785 L)	
	PV unitario USD/kg	PV total	PV unitario USD/kg	PV total	PV unitario USD/kg	PV total
1	9,21	1,842	9,57	191,40	12,08	45,72
2 (*)	8,74	1,748	9,09	181,80	11,48	43,45

(*) Descuento del 5% en la compra de:
 2do. Tambor de 55 GAL
 5ta. Caneca de 5 GAL
 10ma. Galonera

Aprovechamos la oportunidad para saludarlos con respeto y consideración, esperando poder servirle(s), dentro del ambiente de alta calidad de los procesos de su Empresa.

Cordialmente,



Ing. Carlos M. Batallas G.
 Director Técnico
 Grupo Químico Indu-Quim & Bioquimec S.A.
 CBG/cbg

Safety Data Sheet

BENZALKONIUM CHLORIDE 80%

Date : July 1ST, 2015

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

1.1 Product identifier

PRODUCT NAME: BENZALKONIUM CHLORIDE 80%

1.2 CHEMICAL NAME: Alkylbenzyltrimethylammonium Chloride

1.3 Recommended use of the chemicals and restriction on use

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

1.4 SUPPLIER DETAILS : OZZIE CHEMICAL(DALIAN) CO.,LTD
NO.20 GANGWAN STREET,ZHONGSHAN DIST,DALIAN,CHINA.

Telephone number: 86 411 82592911

Emergency telephone number : 0086 15242601618

For and on behalf of
OZZIE CHEMICAL (DALIAN) CO., LTD
大连奥祺化学有限公司

Amy
Authorized Signature(s)

2: Hazardous identification

2.1 Classification of the substance or mixture

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

Acute toxicity, Oral (Category 4), H302

Skin corrosion (Category 1B), H314

Acute aquatic toxicity (Category 1), H400

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

C Corrosive R34

Xn Harmful R21/22

N Dangerous for the

Environment R50

Additional information

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

2.2 Label elements

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

Substance name: Alkylbenzyltrimethylammonium chloride

Hazard pictogram(s)



Signal word: Danger

Hazard Statements: H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H400 Very toxic to aquatic life.

Precautionary statements:

Prevention

P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

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

P310 Immediately call a POISON CENTER or doctor/ physician.

Storage

P404 Store in a closed container
 P420 Store away from strong oxidizing agents and reducing agents

Disposal

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

2.3 Other hazards which do not result in classification

Not available

SECTION 3: Composition / information on ingredients

Substance

3.1 Substance name: Alkylbenzyltrimethylammonium chloride
3.2 Common name: Benzalkonium Chloride
3.3 CAS No 63449-41-2
EC No: 264-151-6
Concentration(%) : 79 - 81
Classification: Acute Tium Cox. 4; Skin Corr. 1B; Aquatic Acute 1; H302 + H312, H314, H400

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

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

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

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

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

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

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

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

Potential acute health effects

Eye contact: Irritating to eyes

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

Skin contact: Skin contact may aggravate existing skin disease

Ingestion: May cause irritation to mouth, throat and stomach

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

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

Specific treatments: Symptomatic treatment and supportive therapy as indicated. Following severe exposure the patient should be kept under medical review for at least 48 hours.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: on large fires use universal foam or water spray. On small fires use dry chemical, CO₂. Water can be used to cool fire exposed containers.

Unsuitable extinguishing media: Water jet is not recommended.

5.2 Special hazards arising from the substance or mixture.

Will burn (following evaporation of water)

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

Nitrogen di oxides, Carbon oxides

5.3 Advice for fire-fighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up.

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

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

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

6.4 Reference to other sections.

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling.

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

7.2 Conditions for safe storage, including any incompatibilities

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

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

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

No occupational exposure limit values established

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DNEL (Derived no Effect Level) for workers

Propan-2-ol- exposure, systemic effects 999 mg/kg TWA.
 exposure, systemic effects 1250 mg/kg STEL

8.2 Exposure controls

Appropriate engineering controls: Provide appropriate exhaust ventilation at places.

8.3 Personal protective equipment:

- Eye and face protection:** Wear safety glasses with side shields or splash proof goggles. (ANSI Z87 approved). An emergency eye wash is necessary.
- Skin protection:** Use proper protection - gloves and suitable long-sleeved clothing (i.e., shirts and pants) as a minimum.
- Hand protection:** Protective gloves.
- Respiratory protection:** If ventilation is insufficient, suitable respiratory protection must be provided
- Environmental exposure Controls :** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- Industrial hygiene:** Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

SECTION 9: Physical and chemical properties

Appearance:	Liquid
Colour:	Colourless to Pale yellow
Odour:	Characteristic
pH (1% Water solution) :	6 - 8
Melting point:	No data available.
Freezing point:	<0°C
Boiling point:	> 100°C at 760 mmHg
Density:	~ 0.95g/cm ³
Vapour pressure:	No data available.
Partition coefficient (n-octanol/water):	No data available.
Solubility(ies):	Soluble in water
Flash point:	No data available.
Auto-ignition temperature:	No data available.
Flammability:	Non flammable.
Explosive properties:	No data available.
Oxidising properties:	Not considered as oxidizing.
Evaporation rate :	No data available.
Viscosity:	≤500 mPa.s(25°C)
Specific gravity	No data available.
Decomposition temperature	Not available

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9.2 Other information

Not available

SECTION 10 : Stability and reactivity**10.1 Reactivity**

Stable under normal temperature and pressures.

10.2 Chemical stability

Stable under normal temperature and pressures.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Heat, open flame, spark.

10.5 Incompatible materials

Strong acids, strong oxidizing agents.

10.6 Hazardous decomposition products.

SECTION 11 : Toxicological Information

11.1 Information on toxicological effects

Toxicokinetics, metabolism and distribution

No relevant information available.

Skin corrosion/irritation:

Slightly irritating. May cause redness, irritation.

Serious eye damage/irritation:

No data available.

Respiratory or skin sensitization:

No data available.

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

No data available.

STOT-single exposure and repeated exposure:

No data available.

Additional information:

No relevant information available.

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation No specific data

Ingestion No specific data

Skin contact Adverse symptoms may include irritation and redness

Eye contact Adverse symptoms may include irritation, watering, redness

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

Not available

11.4 Numerical measures of toxicity

Acute Oral toxicity: LD50≥240mg/kg (rat)

SECTION 12 : Ecological Information

12.1 Toxicity

No data available.

12.2 Persistence and degradability:

Readily biodegradable (Directive 84/449/EEC,C.5“Biotic degradation-modified sturm test”).

12.3 Bioaccumulative potential

LD50>2000mg/kg(Mouse)

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

No relevant information available.

13: Disposal considerations

13.1 Waste treatment methods

Product disposal: Dispose of in accordance with local regulations.

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

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14: Transportation Information

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



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

15: Regulatory Information

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

EU regulation: Authorisations: No information available.

Restrictions on use: No information available.

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

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

15.2 Chemical Safety Assessment

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

16: Other information

16.1 Abbreviations and acronyms

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

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

EINECS: European Inventory of Existing Commercial Chemical Substances.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

OSHA: The United States Occupational Safety and Health Administration.

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

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TEL : (0086) 411 82592911

FAX : (0086) 411 82592915

Email : sales@ozziechemical.com

Website : www.ozziechemical.com

Benzalkonium chloride 80%

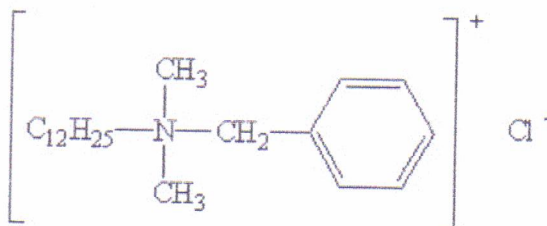
【CAS】 8001-54-5 63449-41-2 139-07-1

Alias: geramine benzalkonium chloride alkyldimethylbenzylammoniu chloride DDBAC

Molecular Formula: C₂₁H₃₈NCl

Molecular weight: 340.0

Structure:



1, Properties and Usage:

Benzalkonium Chloride is a kind of cationic surfactant, belonging to nonoxidizing boicide. It can efficiently withhold algae propagation and sludge reproduction. Benzalkonium Chloride also has dispersing and penetrating properties, can penetrate and remove sludge and algae, has advantages of low toxicity, no toxicity accumulation, soluble in water, convenient in use, unaffected by water hardness. Benzalkonium Chloride can be also used as anti-mildew agent, antistatic agent, emulsifying agent and amendment agent in woven and dyeing fields.

2, Specification

items	index
Appearance	light yellow transparent liquid
Active content % % ≥	80
Amine salt % ≤	1.0
pH(1% water solution)	6.0 - 8.0
	good fluid

3, Using method:

As nonoxidizing boicide, dosage of 50-100mg/L is preferred; as sludge remover, 200-300mg/L is preferred, adequate organosilyl antifoaming agent should be added for this purpose. This product can be used together with other fungicidal such as isothiazolinones, glutaraldehyde, dithionitrile methane for synergism, but cannot be used together with chlorophenols. If sewage is appeared after thrown of this product in circulating cool water, the sewage should be filtered or blown off in time to prevent their deposit in bottom of collecting tank after froth disappearance. No blending with anion surfactant.

4, Safety Protection:

A little smell of almond, no visible stimulation to skin. When contacted, flush with water.

5, Package and Storage:

OZZIE CHEMICAL (DALIAN) CO., LTD
大连奥祺化学有限公司

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OZZIE OZZIE CHEMICAL(DALIAN) CO., LTD.

Add: NO.20 GANGWAN STREET, ZHONGSHAN DIST, DALIAN, CHINA.

TEL : (0086) 411 82592911

FAX : (0086) 411 82592915

Email : sales@ozziechemical.com

Website : www.ozziechemical.com

25kg or 200kg in plastic barrel, or confirmed by clients. Storage for two
year in room shady and dry place.

For and on behalf of
OZZIE CHEMICAL (DALIAN) CO., LTD
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QUÍMICOS
CBG



OZZIE CHEMICAL(DALIAN) CO.,LTD

CERTIFICATION OF ANALYSIS

PRODUCT: Benzalkonium Chloride 80%

BATCH NO.: 20200713

MANUFACTURING DATE: 2020.07.13

WEIGHT: 2000KGS

Item	Specification	Result
Appearance	Colorless to yellowish transparent liquid	Colorless to yellowish transparent liquid
Active content content %	$\geq 80\%$	80.6
Amine salt %	$\leq 1.0\%$	0.35
pH value	6.0-8.0	7.90
Conclusion	Approved	
COA STAMP		

QUÍMICOS
CBG

