杭州海关技术中心 国家危险化学品检测重点实验室(浙江)

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ZAIQ-RF(HH)-01-19

Safety Data Sheet



Applicant name: Lionser Medical Disinfectant (Hangzhou) Co., Ltd.

Product Name: Gelica® Quaternary Ammonium Salt Disinfectant

Edit date: 2020-04-03-18

Edit institution: Technology Center of Hangzhou Customs District

Approver:

1. Unless other wise stated, this test report is only responsible for the sample(s).

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Genca Quaternary Ammonium	Sait Districtant According to Charles
	1. Identification of substance
Product Name	Gelica® Quaternary Ammonium Salt Disinfectant
Trade Name	Gelica® Quaternary Ammonium Salt Disinfectant
Chemical Name	None
Recommended Use	1. Disinfection of the surface of hospital objects.
	2. Disinfection of surfaces of public places, families and other
	objects.
	3. Disinfection of filter (net), radiator and other surfaces of
	household air conditioner and automobile air conditioner.
Manufacturer	Lionser Medical Disinfectant (Hangzhou) Co., Ltd.
Address	No.1, Langsuo Road, Jiande, Zhejiang / 311607
Phone Number	+86-571-64793003
Fax Number	+86-571-64793014
WEB	None
Emergency Phone Number	+86-571-64793002 or call your nearest poison control centre
张老师	2. Hazards identification
GHS classification	Hazardous to the aquatic environment, acute hazard 3
	Hazardous to the aquatic environment, long-term hazard 3
GHS Pictograms	· · · · · · · · · · · · · · · · · · ·
Signal words	
Hazard statements	H402:Harmful to aquatic life
	H412:Harmful to aquatic life with long lasting
Precautionary Statement	P273:Avoid release to the environment.
Prevention	
Precautionary Statement	manat it also to to be so to to the second so the solution to the solution in the second solution in the second
Response	
Precautionary Statement	原有现象中华美国 9 安全经有支票各种收款工具各种基础
Storage	
Precautionary Statement	P501:Dispose of contents/container in according with local
Disposal	regulation.
Other hazards which do	Not available.
not result in classification	Posen vide to recommend and lessues deliverages
	Composition/information on ingredients
□Substances	
√ Mixtures	

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Component Information			
Component	CAS number	EINECS number	Mass(%)
Purified water	7732-18-5	231-791-2	99.79%wt
Dodecyl dimethyl benzyl ammonium chloride	139-07-1	205-351-5	0.10%wt
Di octyl dimethyl ammonium chloride	5538-94-3	226-901-0	0.06%wt
Di decyl dimethyl	2390-68-3	219-234-1	0.05%wt

	4.First-aid measures
NOTE TO PHYSICIAN	In case of shortness of breath, give oxygen. Keep victim warm.
After inhalation	Keep victim under observation. Symptoms may be delayed. Move to fresh air. Oxygen or artificial respiration if needed. Get
	immediate medical attention.
After skin contact	Immediately flush skin with plenty of water. Remove and
	isolate contaminated clothing and shoes. If irritation persists,
	get medical attention immediately. For minor skin contact,
	avoid spreading material on unaffected skin.
After eye contact	Wash clothing separately before reuse. Immediately flush eyes with plenty of water for at least 15
Arter eye contact	minutes. Assure adequate flushing of the eyes by separating
	the eyelids with fingers. Get medical attention immediately.
After ingestion	Rinse mouth. Give one or two glasses of water to drink. Do not
	induce vomiting without medical advice. If vomiting occurs
	naturally, have victim lean forward to reduce risk of aspiration.
	Loosen tight clothing such as a collar, tie, belt or waistband. Do
	not use mouth-to-mouth method if victim ingested the
Most important	substance. Seek immediate medical attention. No data available.
symptoms/effects, acute	No data available.
and delayed	
	5. Fire-fighting measures
Suitable extinguishing	5. Fire-fighting measures Water spray, alcohol-resistant foam, carbon dioxide, dry
Suitable extinguishing agents	
agents Special hazards caused by	Water spray, alcohol-resistant foam, carbon dioxide, dry chemical powder, sandy soil. The decomposition products depend on temperature, air
agents Special hazards caused by the material, its products	Water spray, alcohol-resistant foam, carbon dioxide, dry chemical powder, sandy soil. The decomposition products depend on temperature, air supply and other substances. Decomposition products may
agents Special hazards caused by the material, its products of combustion or flue	Water spray, alcohol-resistant foam, carbon dioxide, dry chemical powder, sandy soil. The decomposition products depend on temperature, air supply and other substances. Decomposition products may include but are not limited to: carbon monoxide and carbon
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agents Special hazards caused by the material, its products of combustion or flue gases Protective equipment for fire-fighters	Water spray, alcohol-resistant foam, carbon dioxide, dry chemical powder, sandy soil. The decomposition products depend on temperature, air supply and other substances. Decomposition products may include but are not limited to: carbon monoxide and carbon dioxide, nitrogen oxides (NOx), hydrogen bromide gas, hydrogen chloride gas. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. 6. Accidental release measures Ensure adequate ventilation. Remove all sources of ignition. Do not touch damaged containers or spilled material unless
agents Special hazards caused by the material, its products of combustion or flue gases Protective equipment for fire-fighters Person-related safety	Water spray, alcohol-resistant foam, carbon dioxide, dry chemical powder, sandy soil. The decomposition products depend on temperature, air supply and other substances. Decomposition products may include but are not limited to: carbon monoxide and carbon dioxide, nitrogen oxides (NOx), hydrogen bromide gas, hydrogen chloride gas. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. 6. Accidental release measures Ensure adequate ventilation. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed
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agents Special hazards caused by the material, its products of combustion or flue gases Protective equipment for fire-fighters Person-related safety precautions Measures for environmental protection	Water spray, alcohol-resistant foam, carbon dioxide, dry chemical powder, sandy soil. The decomposition products depend on temperature, air supply and other substances. Decomposition products may include but are not limited to: carbon monoxide and carbon dioxide, nitrogen oxides (NOx), hydrogen bromide gas, hydrogen chloride gas. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. 6. Accidental release measures Ensure adequate ventilation. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.
agents Special hazards caused by the material, its products of combustion or flue gases Protective equipment for fire-fighters Person-related safety precautions Measures for	Water spray, alcohol-resistant foam, carbon dioxide, dry chemical powder, sandy soil. The decomposition products depend on temperature, air supply and other substances. Decomposition products may include but are not limited to: carbon monoxide and carbon dioxide, nitrogen oxides (NOx), hydrogen bromide gas, hydrogen chloride gas. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. 6. Accidental release measures Ensure adequate ventilation. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper

Additional information	See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.	
	7. Handling and storage	
Handling		
Information for safe handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. In case of insufficient ventilation, wear suitable respiratory equipment.	
Information about protection against explosions and fires	Keep away from heat, sources of ignition - No smoking.	
Requirements to be met by storerooms and containers Information about storage	Keep away from light and airtight, and store in a dry place lower than 25 $^{\circ}$ C. Use of explosion-proof lighting, ventilation facilities. Store away from imcompatible substances such as strong	
in one common storage facility	oxidizing agents, alkalis, strong acids, etc.	
Further information about storage conditions	Storage area should be equipped with appropriate variety and quantity of fire equipment, emergency treatment equipments and suitable materials for leakage.	
8.	Exposure controls/personal protection	

Limit Values for Exposure				na bratanti mag no	
Component	CAS number	ACGIH TLV-TWA	ACGIH TLV-STEL	NIOSH REL-TWA	NIOSH REL-STEL
Dodecyl dimethyl benzyl ammonium chloride	139-07-1	N.E.	N.E.	N.E.	N.E.
Di octyl dimethyl ammonium chloride	5538-94-3	N.E.	N.E.	N.E.	N.E.
Di decyl dimethyl ammonium bromide	2390-68-3	N.E.	N.E.	N.E.	N.E.
Appropriate engineering controls	Use adequate ventilation to keep airborne concentrations low. Provide safety shower and eyewash facility.				
General protective and hygienic measures	Do not get this material in contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.				
Personal protective equipment	Splash goggle	es, gloves, p	rotective clo	othing and a	respirator.
Breathing equipment	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.				
Protection of hands	Wear appropr				
Eye/Face protection	Use safety gla	asses with s	ide shields o	r safety gog	gles as

mechanical barrier for prolonged exposure.

Full set of anti chemical reagent overalls, flame retardant Body protection

antistatic protective clothing, choose body protection according to the amount and concentration of the dangerous

substance at the work place.

Note:1. N.E. means not established.				
A STATE OF THE STA	9.Physical and chemical properties			
Physical state	Clear liquid			
Colour	Colourless			
Odour	Alcoholic			
Melting point/freezing point	No data available			
Boiling point or initial boiling point and boiling range	No data available			
Flammability	No data available			
Lower and upper explosion limit/ flammability limit	No data available			
Flash point	>100 ℃ (Closed cup)			
Auto-ignition temperature	No data available			
Decomposition	No data available			
temperature				
pH	6.0~8.0 (Concentration: compound quaternary ammonium salt 0.18%~0.22%; Temperature: 25 °C)			
Kinematic viscosity	No data available			
Solubility	No data available			
Partition coefficient: n-octanol/water(log value)	No data available			
Vapour pressure	No data available			
Density and/or relative density	1.0 (20 ℃)			
Relative vapour density (air=1)	No data available			
Particle characteristics	Not applicable			
	10. Stability and reactivity			
Reactivity	No data available.			

Stable under recommended storage conditions. Chemical stability

No data available. Possibility of hazardous

reactions

Heat and flame and spark. The extreme temperatures and Conditions to avoid (e.g. direct sunlight. static discharge, shock or

vibration) Avoid contact with strong oxidizing agents, alkalis, strong Incompatible materials

acids, etc.

Hazardous decomposition products

The decomposition products depend on temperature, air supply and other substances. Decomposition products may include but are not limited to: carbon monoxide and carbon dioxide, nitrogen oxides (NOx), hydrogen bromide gas, hydrogen chloride gas.

11.Toxicological information

Routes of Entry: Dermal contact, eye contact, inhalation, ingestion.

Acute Toxicity

Dodecyl dimethyl benzyl LD50 (Oral, rat): 400 mg/kg ammonium chloride (CAS LC50 (Inhalation, rat): N/A

139-07-1)

LD50 (Dermal, rabbit): N/A

Di octyl dimethyl ammonium LD50 (Oral, rat): N/A

LC50 (Inhalation, rat): N/A

chloride (CAS 5538-94-3)

LD50 (Dermal, rabbit): N/A

Didecyl dimethyl ammonium LD50 (Oral, rat): N/A

bromide (CAS 2390-68-3)

LC50 (Inhalation, rat): N/A LD50 (Dermal, rabbit): N/A

Not classified Skin corrosion/Irritation

Serious

eve Not classified

damage/irritation

skin Not classified Respiratory or

sensitization

Not classified Germ cell mutagenicity Not classified Carcinogenicity Reproductive toxicity Not classified Not classified STOT-single exposure STOT-repeated exposure Not classified Not classified Aspiration hazard Chronic Effects Not classified

Further Information

12. Ecological information

Ecotoxicity

Aquatic Toxicity

Test & Species

96 Hr LC50 fish: N/A 48 Hr EC50 Daphnia: N/A 72 Hr EC50 Algae: N/A

Persistence and

Not available

None.

degradability

Bioaccumulative potential Not available Mobility in soil Not available

Additional Information

Harmful to aquatic life with long lasting effects.

13. Disposal considerations

WASTE DISPOSAL INSTRUCTIONS

Contact a qualified professional waste disposal service to dispose of this material.

Dispose of in accordance with local environmental regulations or local authority requirements.

14. Transport information

The Recommendation of Transport of Dangerous Goods(TDG)

UN Number

Proper Shipping Name

Class/Division The product is not regulated by TDG.
Package Group The product is non-dangerous goods.

Subsidiary risk

labelling pictogram

Maritime transport IMDG/ Being same with TDG/No

Marine pollutant (Yes/No)

Air transport ICAO-TI and Being same with TDG

IATA-DGR

15. Regulatory information

European/International Regulations

OSHA: Hazardous by definition of Hazard Communication

Standard(29CFR 1910.1200).

EINECS Status: The main components of this chemical are included in EINECS

inventory.

EPA TSCA Status: The main components of this chemical (Except Di decyl

dimethyl ammonium bromide) are included in TSCA inventory.

Canadian The main components of this chemical (Except Di decyl

DSL(Domestic dimethyl ammonium bromide) are included in DSL.

Substances List):

HMIS(Hazardous Health: 0

Material Identification Flammability: 0

System Ratings): Physical hazard: 0 Personal protection: G

(4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1.

Slight Hazard; O. Minimal Hazard)

WHMIS (Canadian Not listed.

Workplace Hazardous Material Identification

System Ratings):

GB 12268-2012 List of This product is not a dangerous goods on the GB 12268-2012

dangerous goods list of dangerous goods.

16. other information

Employers should use this information only as a supplement to other information

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gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

This Material Safety Data Sheet was based on the "Globally Harmonized System of Classification and Labelling of Chemicals", "Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations", "INTERNATIONAL MARITIME DANGEROUS GOODS CODE"," International Air Transport Association Dangerous Goods Regulations", the National Standards and other related dangerous chemicals management laws, regulations and standards, which are periodically updated and changed. To make dangerous goods / hazardous chemicals comply with the relevant requirements of the latest management, regularly update is recommended.

This Material Safety Data Sheet has been compiled in both English and Chinese. For any discrepancies, the Chinese version shall prevail.

Abbreviations and acronyms

ADR: European Agreement concerning the International

Carriage of Dangerous Goods by Road

RID: Regulations Concerning the International Transport of

Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA-DGR: Dangerous Goods Regulations by the "International

Air Transport Association" (IATA)

ICAO-TI: Technical Instructions by the "International Civil

Aviation Organization" (ICAO)

EINECS: European Inventory of Existing Commercial Chemical

Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

Edit Date

03.04.2020

Update and Revise

Original edition

Edit Standard

Globally Harmonized System of Classification and Labelling for

Chemicals Part 1.5

Revised Institution

Technology Center of Hangzhou Customs District