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正本/ORIGIN

编号：H20009914
No：H20009914
日期：2020-03-25
Date：2020-03-25

ZAIQ-RF(HH)-01-19

Safety Data Sheet

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

Product Name: BANEN® Quick-drying Hand Disinfecting Gel

Edit date: 2020-03-25

Edit institution: Technology Center of Hangzhou Customs District

Approver：

Technology Center of Hangzhou Customs District 杭州海关技术中心 检验检测专用章

1. Unless other wise stated, this test report is only responsible for the sample(s).
2. This test report can not be reproduced,except in full,without prior written permission of the lab.

1. Identification of substance

Product Name	BANEN® Quick-drying Hand Disinfecting Gel
Trade Name	None
Chemical Name	None
Recommended Use	Surgical hand disinfection, sanitary hand disinfection and skin disinfection
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

2. Hazards identification

GHS classification	Flammable liquids 2
GHS Pictograms	
Signal words	Danger
Hazard statements	H225: Highly flammable liquid and vapour
Precautionary Statement Prevention	P210: Keep away from heat/sparks/open flames/hot surfaces.-No smoking. P233: Keep container tightly closed. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P280: Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement Response	P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water[or shower]. P370+P378: In case of fire: Use extinguisher to extinguish.
Precautionary Statement Storage	P403+P235: Store in a well-ventilated place. Keep cool.
Precautionary Statement Disposal	P501: Dispose of contents/container in according with local regulation.
Other hazards which do not result in classification	Not available.

3. Composition/information on ingredients

☐**Substances**

√ **Mixtures**

Component Information

Component	CAS number	EINECS number	Mass(%)
Ethanol	64-17-5	200-578-6	80.00%wt
Purified water	7732-18-5	231-791-2	19.70%wt
Acrylic polymer	24938-16-7	627-095-7	0.30%wt

4.First-aid measures

NOTE TO PHYSICIAN	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
After inhalation	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. Wash clothing separately before reuse.
After eye contact	Immediately flush eyes with plenty of water for at least 15 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 substance. Seek immediate medical attention.
Most important symptoms/effects, acute and delayed	No data available.

5. Fire-fighting measures

Suitable extinguishing agents	Water spray, alcohol-resistant foam, carbon dioxide, dry chemical powder, sandy soil.
Special hazards caused by the material, its products of combustion or flue gases	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.
Protective equipment for fire-fighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

6. Accidental release measures

Person-related safety precautions	Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Ventilate closed spaces before entering. Keep unnecessary personnel away.

Measures for environmental protection	Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting	Control spillage, and then collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in suitable container. Clean contaminated surface thoroughly.
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	Use spark-proof tools and mechanical equipments. 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. Take measures to prevent the build up of electrostatic charge.

STORAGE

Requirements to be met by storerooms and containers	Keep away from light and airtight, and store in a dry place lower than 25 ℃。 Use of explosion-proof lighting, ventilation facilities.
Information about storage in one common storage facility	Store away from imcompatible substances such as strong oxidizing agents, alkalis, 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

Component	**CAS number**	**ACGIH TLV-TWA**	**ACGIH TLV-STEL**	**NIOSH REL-TWA**	**NIOSH REL-STEL**
Ethanol	64-17-5	N.E.	1,000 ppm	1,000 ppm	N.E.
Acrylic polymer	24938-16-7	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 goggles, gloves, protective clothing and a vapor respirator.

Breathing equipment	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Protection of hands	Wear appropriate chemical resistant gloves.
Eye/Face protection	Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure.
Body protection	Full set of anti chemical reagent overalls, flame retardant 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.

9.Physical and chemical properties

Physical state	Clear gel
Colour	Colourless
Odour	Alcoholic
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	Highly flammable
Lower and upper explosion limit/ flammability limit	No data available
Flash point	<23 ℃ (Closed cup)
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
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	No data available
Relative vapour density (air=1)	No data available
Particle characteristics	Not applicable

10. Stability and reactivity

Reactivity	Ethanol reacts slowly with calcium hypochlorite, silver oxide and ammonia. This generates fire and explosion hazard. Reacts violently with strong oxidants such as nitric acid, silver nitrate, mercuric nitrate and magnesium perchlorate. This generates fire and explosion hazard.

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available.
Conditions to avoid (e.g. static discharge, shock or vibration)	Heat and flame and spark. The extreme temperatures and direct sunlight. Static discharge.
Incompatible materials	Avoid contact with strong oxidizing agents, alkalis, 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.

11.Toxicological information

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

Acute Toxicity

Ethanol (CAS 64-17-5)	LD50 (Oral, rat): 10,470 mg/kg LC50 (Inhalation, rat): 124.7 mg/l (4 h) LD50 (Dermal, rabbit): N/A
Skin corrosion/Irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	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
Chronic Effects	Not classified
Further Information	None.

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 degradability	Not available
Bioaccumulative potential	Not available
Mobility in soil	Not available
Additional Information	None

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	UN 1170
Proper Shipping Name	ETHANOL SOLUTION
Class/Division	Class 3 Flammable Liquids
Package Group	PG II
Subsidiary risk	—
labelling pictogram	
Maritime transport IMDG/ Marine pollutant (Yes/No)	Being same with TDG/No
Air transport ICAO-TI and IATA-DGR	Being same with TDG

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 (Except Acrylic polymer) are included in EINECS inventory.
EPA TSCA Status:	The main components of this chemical are included in TSCA inventory.
Canadian DSL(Domestic Substances List):	The main components of this chemical are included in DSL.
HMIS(Hazardous Material Identification System Ratings):	Health: 0 Flammability: 3 Physical hazard: 0 Personal protection: H (4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1. Slight Hazard; 0. Minimal Hazard)
WHMIS (Canadian Workplace Hazardous Material Identification System Ratings):	B2, D2B (Ethanol).
GB 12268-2012 List of	This product is a dangerous goods on the GB 12268-2012 list of

dangerous goods	dangerous goods.

16. other information

Employers should use this information only as a supplement to other information 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	25.03.2020
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