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正本/ORIGIN

编号: H20010470 No: H20010470 日期: 2020-04-02 Date: 2020-04-02

ZAIQ-RF(HH)-01-19

Safety Data Sheet



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

Product Name: SunBerry® Rinse-free Hand Sanitizer

Edit date: 2020 04-02-182

Edit institution: Technology Center of Hangzhou Customs District

Approver

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.

SunBerry® Rinse-free Hand Sar	itizer	According to GHS rev 8
	1. Identification of substance	
Product Name	SunBerry® Rinse-free Hand Sanitiz	er
Trade Name	SunBerry® Rinse-free Hand Sanitiz	er
Chemical Name	None	
Recommended Use	It is suitable for surgical hand	disinfection, sanitary hand
	disinfection and skin disinfection	
Manufacturer	Lionser Medical Disinfectant (Hang	
Address	No.1, Langsuo Road, Jiande, Zhejia	ang / 311607
Phone Number	+86-571-64793003	
Fax Number	+86-571-64793014	
WEB	None	
Emergency Phone Number	+86-571-64793002 or call your ne	earest poison control centre
	2. Hazards identification	
GHS classification	Flammable liquids 2	
stolkyline over a left but	Hazardous to the aquatic environm	
	Hazardous to the aquatic environm	ent, long-term hazard 4
GHS Pictograms	A	
运发性基金数单位。		
Signal words	Danger	
Hazard statements	H225:Highly flammable liquid and	vapour
test regular are the	H402:Harmful to aquatic life	demiss beisst reserved
ordin godi	H413: May cause long lasting harm	ful effects to aquatic life
Precautionary Statement	P210: Keep away from heat, hot su	rfaces, sparks, open flames
Prevention	and other ignition sources. No smo	king.
	P233:Keep container tightly closed	
	P240: Ground and bond container a	and receiving equipment.
One tax significances of	P241:Use explosion-proof	
	electrical/ventilating/lighting//equ	uipment.
	P242:Use only non-sparking tools.	
	P243:Take action to prevent static	
	P273:Avoid release to the environr	
	P280: Wear protective gloves/prote	
	protection/face protection/hearing	protection.
Drocoutionary Statement	DANATDAGATEDAGATE UNICKINI (OF	hairly lake off immediately

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.
P403+P235: Store in a well-ventilated place. Keep cool.

Precautionary Statement

Storage

Precautionary Statement

P501: Dispose of contents/container in according with local

Disposal Other hazards which do not result in classification **□Substances** √ Mixtures Component In Compon Ethanol Purified water Chlorhexidine q AP00-0728P ess NOTE TO PHYSI After inhalation After skin conta

regulation. Not available.

not result in classification			
3. (Composition/inform	nation on ingredients	
□Substances	MULTI ASM	u Eleul	
√ Mixtures			
Component Information			
Component	CAS number	EINECS number	Mass(%)
Ethanol	64-17-5	200-578-6	70.00%wt
Purified water	7732-18-5	231-791-2	29.40%wt
Chlorhexidine gluconate	18472-51-0	242-354-0	0.50%wt
AP00-0728P essence			0.10%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 respira	ation if needed. Get
、金融扩散水路基面设施	immediate medica	al attention.	and to the
After skin contact	isolate contamina get medical atter avoid spreading n	h skin with plenty of w ted clothing and shoes. I ntion immediately. For n naterial on unaffected skin parately before reuse.	f irritation persists, ninor skin contact,
After eye contact	minutes. Assure a	n eyes with plenty of wandequate flushing of the e ingers. Get medical attent	yes by separating
After ingestion	induce vomiting naturally, have vio Loosen tight cloth not use mouth-substance. Seek i	e one or two glasses of wa without medical advice. ctim lean forward to reduc- ing such as a collar, tie, be to-mouth method if vic mmediate medical attenti	If vomiting occurs to risk of aspiration. Elt or waistband. Do ctim ingested the
Most important	No data available	indicate the management and because of	nihaslaim

Most important symptoms/effects, acute and delayed

5. Fire-fighting measures

Suitable extinguishing 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 oxide, chloride.

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Suilberry Kinse-free fraid San	ittle 1				to diis iev o
6. Accidental release measures					
Person-related safety precautions	Ensure adeque Beware of concentration unnecessary	vapours s. Ventilate	accumulatin closed spac	g to form	n explosive
Measures for environmental protection	Prevent further material to be governmental	er leakage o e released to	r spillage if s		
Measures for cleaning/collecting	Control spilla absorbent ma vermiculite)	age, and a aterial (e.g and plac	. sand, ear e in suit	th, diatoma	ceous earth,
Additional information	contaminated surface thoroughly. 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	7. Hanai	ing and stor	age		
Information for safe handling Information about	Use spark-proof tools and mechanical equipments. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat, sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.				
protection against explosions and fires STORAGE		ok) mogeskið sky sið æbig		ju žyab 21 milli nau bojnst soov	6
Requirements to be met by storerooms and containers	Keep away from light and airtight, and store in a dry place lower than 25 $^{\circ}$ C. Use of explosion-proof lighting, ventilation facilities.				
Information about storage	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 cont	rols/persona	al protection		
Limit Values for Exposure Component	CAS number	ACGIH TLV-TWA	ACGIH TLV-STEL		NIOSH REL-STEL
Ethanol	64-17-5	N.E.	1,000	1,000	N.E.
Chlorhexidine gluconate Appropriate engineering controls General protective and	ppm ppm 18472-51-0 N.E. N.E. N.E. N.E. Use adequate ventilation to keep airborne concentrations low Provide safety shower and eyewash facility. Do not get this material in contact with eyes. Handle in		trations low.		

accordance with good industrial hygiene and safety practice. hygienic measures Wash hands before breaks and at the end of workday. Splash goggles, gloves, protective clothing and a vapor Personal protective respirator. equipment When workers are facing concentrations above the exposure Breathing equipment limit they must use appropriate certified respirators. Protection of hands Wear appropriate chemical resistant gloves. Use safety glasses with side shields or safety goggles as Eye/Face protection 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 estab	lished.
	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	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
рН	6.0~8.0 (Concentration: Chlorhexidine gluconate
	0.45%~0.55%, Ethanol 63%~77%; 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	0.866 (20 ℃)
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	No data available.	
reactions		
Conditions to avoid (e.g.	Heat and flame and spark. The extreme temperatures and	
static discharge, shock or vibration)	direct sunlight. Static discharge.	
Incompatible materials	Avoid contact with strong oxidizing agents, alkalis, etc.	
Hazardous decomposition	The decomposition products depend on temperature, air	
products	supply and other substances. Decomposition products may	
	include but are not limited to: carbon monoxide and carbon	
	dioxide, nitrogen oxide, chloride.	
	11.Toxicological information	
A STATE OF THE PARTY OF THE PAR	ntact, eye contact, inhalation, ingestion.	
Acute Toxicity	1050 (0 1 1) 10 170 (1	
Ethanol (CAS 64-17-5)	LD50 (Oral, rat): 10,470 mg/kg	
	LC50 (Inhalation, rat): 124.7 mg/l (4 h)	
Chlorhexidine gluconate	LD50 (Dermal, rabbit): N/A LD50 (Oral, rat): N/A	
(CAS 18472-51-0)	LC50 (Inhalation, rat): N/A	
(CAS 104/2 51 0)	LD50 (Dermal, rabbit): N/A	
Skin corrosion/Irritation	Not classified	
	ve Not classified	
damage/irritation	- Hot diabonica	
	in Not classified	
sensitization		
Germ cell mutagenicity	Not classified	
Carcinogenicity	Not classified	
Reproductive toxicity	Not classified	
STOT-single exposure	Not classified	
	Not classified	
STOT-repeated exposure		
STOT-repeated exposure Aspiration hazard	Not classified	
STOT-repeated exposure Aspiration hazard Chronic Effects	Not classified Not classified	
STOT-repeated exposure Aspiration hazard	Not classified	

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

degradability

Bioaccumulative potential No Mobility in soil No

Not available Not available

Additional Information

Harmful to aquatic life.

May cause long lasting harmful effects to aquatic life.

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/

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 (Except AP00-0728P

essence) are included in EINECS inventory.

EPA TSCA Status:

The main components of this chemical (Except AP00-0728P

essence) are included in TSCA inventory.

Canadian

DSL(Domestic

The main components of this chemical (Except AP00-0728P

essence) are included in DSL.

Substances List):

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):

GB 12268-2012 List of dangerous goods

B2, D2B (Ethanol).

This product is a dangerous goods on the GB 12268-2012 list of 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 02.04.2020

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