杭州海关技术中心 国家危险化学品检测重点实验室(浙江)

电话 (Tel): 0571 8352 7220 传真 (Fax): 0571 8352 7219 邮编 (Post code): 311215

地址 (Add.): 中国杭州市萧山区建设三路 398 号

正本/ORIGIN

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ZAIQ-RF(HH)-01-19

Safety Data Sheet



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

Product Name: Lionser®Disinfectant Tablets

Edit date: 2020 14-03-18

Edit institution: Technology Center of Hangzhou Customs District

Approver: 2

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.

Lionser®Disinfectant Tablets	According to GHS rev 8		
	1. Identification of substance		
Product Name	Lionser®Disinfectant Tablets		
Trade Name	Lionser®Disinfectant Tablets		
Chemical Name	None		
Recommended Use	It is suitable for disinfection of environment, object surface,		
	fruits and vegetables.		
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	Acute toxicity-oral 4		
	Serious eye damage/eye irritation 2A		
	Specific target organ toxicity, single exposure 3		
	Reproductive toxicity 1B		
	Hazardous to the aquatic environment, acute hazard 1		
机工业未次数中 业	Hazardous to the aquatic environment, long-term hazard 1		
GHS Pictograms	A A A		
Substitution will step at the constitution of			
Signal words	Danger		
Hazard statements	H302:Harmful if swallowed		
	H319:Causes serious eye irritation		
	H335:May cause respiratory irritation		
	H360:May damage fertility or the unborn child		
	H400:Very toxic to aquatic life		
	H410: Very toxic to aquatic life with long lasting effects		
Precautionary Statement	P203:Obtain, read and follow all safety instructions before use.		
Prevention	P261:Avoid breathing dust/fume/gas/mist/vapours/spray.		
	P264:Wash hands thoroughly after handling.		
	P270:Do not eat, drink or smoke when using this product.		
	P271:Use only outdoors or in a well-ventilated area.		
	P273:Avoid release to the environment.		
	P280:Wear protective gloves/protective clothing/eye		
	protection/face protection/hearing protection.		
Precautionary Statement	P301+P317:IF SWALLOWED: Get medical help.		
Response	P304+P340:IF INHALED: Remove person to fresh air and keep		
	comfortable for breathing.		
	DOOF I DOES I DOOR IT IN EVEC. Dince courtiously with water for		

P305+P351+P338:IF IN EYES: Rinse cautiously with water for

symptoms/effects, acute

and delayed

Lionser®Disinfectant Tablets		1 12.30	According to GHS rev 8
Precautionary Statement Storage Precautionary Statement Disposal Other hazards which do not result in classification	do. Continue rinsin P318:IF exposed o P319:Get medical P330:Rinse mouth P337+P317:If eye P391:Collect spillar P403+P233:Store tightly closed. P405:Store locked	r concerned: Get medic help if you feel unwell. irritation persists: Get ge. in a well-ventilated place	medical help.
	Composition/informa	ation on ingredients	
□Substances √Mixtures Component Information	e quair siz to ekimoges Let 3 a 3 a 4 a 10 la 10 a	2000年 2000年 2000年 2000年 第二次年本本章25年 20年	normalial e-ii-a-ta-i
Component	CAS number	EINECS number	Mass(%)
Trichloroisocyanuric acid	87-90-1	201-782-8	50%±5%wt
Sodium bicarbonate	144-55-8	205-633-8	30.00%wt
Boric acid	10043-35-3	233-139-2	10.00%wt
	4.First-aid n	neasures	
NOTE TO PHYSICIAN After inhalation	Keep victim under	s of breath, give oxyger observation. Symptoms Oxygen or artificial respi	s may be delayed.
After skin contact	Immediately flush isolate contaminat get medical atten avoid spreading m Wash clothing separately.	skin with plenty of vector of the clothing and shoes. tion immediately. For aterial on unaffected skarately before reuse.	If irritation persists, minor skin contact, cin.
After eye contact	minutes. Assure active eyelids with fir	eyes with plenty of w dequate flushing of the ngers. Get medical atter	eyes by separating ntion immediately.
After ingestion Most important	Do not induce volume occurs naturally, laspiration. Loosen waistband. Do not	miting without medical have victim lean forwa tight clothing such as ot use mouth-to-mout ance. Seek immediate	advice. If vomiting rd to reduce risk of a collar, tie, belt or h method if victim

Causes serious eye irritation. May cause respiratory irritation.

May damage fertility or the unborn child.

	5. Fire-fighting measures
Suitable extinguishing	Water spray, foam, dry chemical powder, sandy soil.
agents Special hazards caused by	The decomposition products depend on temperature, air
the material, its products	supply and other substances. Decomposition products may
of combustion or flue	include but are not limited to: carbon oxides, nitrogen oxides
gases	(NOx), hydrogen chloride gas, borane/boron oxides, sodium oxides.
Protective equipment for	Wear full protective clothing, including helmet, self-contained
fire-fighters	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. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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	Sweep up, then place into a suitable container for disposal.
cleaning/collecting	Avoid generating dusty conditions. Provide ventilation. Do not get water inside containers. 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	Avoid breathing dust/fume/gas/mist/vapours/spray. In case of insufficient ventilation, wear suitable respiratory equipment.
Information about protection against explosions and fires STORAGE	Keep away from heat, sources of ignition - No smoking.
Requirements to be met by storerooms and containers	Keep away from light and airtight in a cool and dry place.
Information about storage in one common storage facility Further information about storage conditions	Store away from imcompatible substances such as potassium, acid anhydrides, strong reducing agents, strong bases, hypochlorites, strong acids, strong oxidizing agents, etc. Storage area should be equipped with appropriate variety and quantity of fire equipment, emergency treatment equipments

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	and suitable r	materials fo	r 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	
Trichloroisocyanuric acid	87-90-1	N.E.	N.E.	N.E.	N.E.	
Sodium bicarbonate	144-55-8	N.E.	N.E.	N.E.	N.E.	
Boric acid	10043-35-3	2 mg/m^3	6 mg/m ³	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	Safety glasse respirator.					
Breathing equipment	When workers limit they mus					
Protection of hands	Wear appropr	riate chemic	al resistant	gloves.		
Eye/Face protection	Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure.				gles as	
Body protection Note:1. N.E. means not estab	Full set of ant antistatic protaccording to t substance at olished.	tective cloth the amount	ing, choose and concent	body protec	ction	
	9.Physical and	d chemical p	roperties			
Physical state	White tablets,			ain		
Colour	White					
Odour	Chlorine odou	ır				
Melting point/freezing point	No data availa	able				
Boiling point or initial boiling point and boiling range	No data availa	able				
Flammability	No data availa	able				
Lower and upper explosion limit/ flammability limit	No data availa	able				
Flash point	No data availa	able				
Auto-ignition temperature	No data availa	able				
Decomposition temperature	No data availa	able				
mLI.	E E 7 E / A	cour colutio	n containin	a offoctive of	ploring	

5.5~7.5 (Aqueous solution containing effective chlorine

25 ℃)

4000mg / L) (Concentration: 34.5%~38%; Temperature:

Elonser Dismicetant lablets	Treestang to Grove V
Kinematic viscosity	No data available
Solubility	No data available
Partition coefficient:	No data available
n-octanol/water(log	
value)	
Vapour pressure	No data available
Density and/or relative	No data available
density	
Relative vapour density	No data available
(air=1)	
Particle characteristics	No data available
	10. Stability and reactivity
Reactivity	Trichloroisocyanuric acid: Decomposes on heating. This
	produces toxic fumes. May explode on heating. The substance
	is a strong oxidant. It reacts with combustible and reducing
	materials. Reacts violently with ammonia, ammonium salts
	and amines and sodium carbonate (soda ash). This generates
	fire and explosion hazard. Reacts with strong acids. This
	produces toxic gas (chlorine).
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	direct sunlight. Damp.
vibration)	former twice august will be used as the constant and the re-
Incompatible materials	Avoid contact with potassium, acid anhydrides, strong reducing
	agents, strong bases, hypochlorites, strong acids, strong
	oxidizing agents, 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 oxides, nitrogen oxides
	(NOx), hydrogen chloride gas, borane/boron oxides, sodium
	oxides.
	11.Toxicological information
Routes of Entry: Dermal co	ontact, eye contact, inhalation, ingestion.
Acute Toxicity	
Trichloroisocyanuric ac	cid LD50 (Oral, rat): 406 mg/kg
(CAS 87-90-1)	LC50 (Inhalation, rat): N/A
	LD50 (Dermal, rabbit): N/A
Sodium bicarbonate (CAS	LD50 (Oral, rat): N/A
144-55-8)	LC50 (Inhalation, rat): N/A
	LD50 (Dermal, rabbit): N/A
Boric acid (CAS 10043-35-	3) LD50 (Oral, rat): 2,660 mg/kg
	LC50 (Inhalation, rat): N/A

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LD50 (Dermal, rabbit): N/A

Skin corrosion/Irritation Not classified

Serious eye Causes serious eye irritation.

damage/irritation

Respiratory or skin Not classified

sensitization

Germ cell mutagenicity Not classified

Carcinogenicity Not classified

Reproductive toxicity May damage fertility or the unborn child. STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure Not classified

Aspiration hazard Not classified Chronic Effects Not classified

Further Information None.

12. Ecological information

Ecotoxicity

Aquatic Toxicity Trichloroisocyanuric acid (CAS 87-90-1)

Test & Species

96 Hr LC50 fish: 0.08 mg/l 48 Hr EC50 Daphnia: 0.17 mg/l

72 Hr EC50 Algae: N/A

Persistence and Not available

degradability

Bioaccumulative potential Not available Mobility in soil Not available

Additional Information Very toxic to aquatic life with long lasting effects.

13. Disposal considerations

WASTE DISPOSAL INSTRUCTIONS

Contact a qualified professional waste disposal service to dispose of this

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 3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(contains Trichloroisocyanuric acid)

Class/Division Class 9 Miscellaneous Dangerous Substances and Articles

Package Group PG III

Subsidiary risk —

181 V

labelling pictogram



Maritime transport IMDG/

Being same with TDG/Yes

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 are included in TSCA

inventory.

Canadian The main components of this chemical are included in DSL.

DSL(Domestic

Substances List):

HMIS(Hazardous Health: 2

Material Identification Flammability: 0

System Ratings):

Physical hazard: 1

Personal protection: J

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

Slight Hazard; O. Minimal Hazard)

C, D1B, D2B (Trichloroisocyanuric acid).

WHMIS (Canadian

Workplace Hazardous Material Identification

System Ratings):

dangerous goods

GB 12268-2012 List of

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

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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 ADR: European Agreement concerning the International

acronyms 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