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Safety Data Sheet



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

Product Name: Gelica® Surface Disinfecting Towelettes (Alcohol)


Edit date: 2020-04-03

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.

1. Identification of substance	
Product Name	Gelica® Surface Disinfecting Towelettes (Alcohol)
Trade Name	Gelica® Surface Disinfecting Towelettes (Alcohol)
Chemical Name	None
Recommended Use	It is applicable to the medical equipment, medical supplies and other articles in the high-risk area infected by medical institutions Wipe and disinfect the surface. (such as: newborn warm box, ventilator, monitor, hemodialysis machine, shadowless lamp, operating table, dental comprehensive treatment table, B-ultrasonic probe, stethoscope, bed unit, etc.) especially for the wiping and disinfection of items (equipment) that may have the risk of occult blood.
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 solids 1 Hazardous to the aquatic environment, acute hazard 3 Hazardous to the aquatic environment, long-term hazard 3
GHS Pictograms	
Signal words	Danger
Hazard statements	H228:Flammable solid H402:Harmful to aquatic life H412:Harmful to aquatic life with long lasting effects
Precautionary Statement Prevention	P210:Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240:Ground and bond container and receiving equipment. P241:Use explosion-proof electrical/ventilating/lighting/.../equipment. P273:Avoid release to the environment. P280:Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Precautionary Statement Response	P370+P378:In case of fire: Use extinguisher to extinguish.
Precautionary Statement Storage	None.

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	52.00%wt
Purified water	7732-18-5	231-791-2	47.79%wt
Benzalkonium chloride	8001-54-5	616-786-9	0.10%wt
Di octyl dimethyl ammonium chloride	5538-94-3	226-901-0	0.06%wt
Di decyl dimethyl ammonium chloride	7173-51-5	230-525-2	0.05%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.
After eye contact	Wash clothing separately before reuse. 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	The decomposition products depend on temperature, air supply and other substances. Decomposition products may include but are not limited to: carbon monoxide and carbon

gases	dioxide, nitrogen oxide, chloride.
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	Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.
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 °C. Use of explosion-proof lighting, ventilation facilities.
Information about storage in one common storage facility	Store away from incompatible substances such as strong 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 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.

Benzalkonium chloride	8001-54-5	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 chloride	7173-51-5	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	White non-woven fabric and infiltration solution, no obvious impurities, spots, alcohol flavor; infiltration solution is colorless clear liquid, alcohol flavor.
Colour	White non-woven fabric and colorless clear infiltration solution
Odour	Alcoholic
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	Flammable
Lower and upper explosion limit/ flammability limit	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	5.5~7.5 (Concentration: Ethanol 45%~55%, quaternary ammonium salt 0.18%~0.22%; Temperature: 25 °C)
Kinematic viscosity	No data available
Solubility	No data available

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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, strong 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 oxide, chloride.

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
Di octyl dimethyl ammonium chloride (CAS 5538-94-3)	LD50 (Oral, rat): N/A LC50 (Inhalation, rat): N/A LD50 (Dermal, rabbit): N/A
Di decyl dimethyl ammonium chloride (CAS 7173-51-5)	LD50 (Oral, rat): 84 mg/kg LC50 (Inhalation, rat): N/A LD50 (Dermal, rat): > 2,000 mg/kg
Benzalkonium chloride (CAS 8001-54-5)	LD50 (Oral, rat): N/A LC50 (Inhalation, rat): N/A LD50 (Dermal, rabbit): N/A
Skin corrosion/Irritation	Not classified

Serious damage/irritation	eye	Not classified
Respiratory sensitization	or skin	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	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	UN 3175
Proper Shipping Name	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.(contains Ethanol)
Class/Division	Division 4.1 Flammable Solids
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 Benzalkonium chloride) are included in EINECS inventory.

EPA TSCA Status: The main components of this chemical (Except Benzalkonium chloride) 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)
 B2, D2B (Ethanol).

WHMIS (Canadian Workplace Hazardous Material Identification System Ratings):

GB 12268-2012 List of dangerous goods 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	03.04.2020
Update and Revise	Original edition
Edit Standard	<i>Globally Harmonized System of Classification and Labelling for Chemicals</i> Part 1.5
Revised Institution	Technology Center of Hangzhou Customs District