Safety Data Sheet

Disinfectant Gel

Creation Date: 2020/03/8 Revision Date: 2020/03/8

*Prepared according to UN GHS (the 8th revised edition)

🚺 Identification of the chemical

Product identifier

Product Name	GONG CHEN Disinfectant Gel			
Specification	50 boxes / carton			
CAS No.	Not applicable			
EC No.	Not applicable		,-	
Molecular Formula	Not applicable			

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Please consult manufacturer.	
Uses advised against Please consult manufacturer.	=

Hazards identification

Hazard classification according to GHS

Flammable Liquids | Category 2

Label elements

Hazard pictograms



Signal word Danger

H225	Highly	flammable	liquid	and	vanour
11223	THOTHY	Hallillable	IIYUIU	allu	vapoui

| Precautionary statements

Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P370+P378	In case of fire: Use appropriate extinguishing media mentioned in Section 5 of the SDS to extinguish.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].

Storage

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

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard description

Physical and chemical hazards

Highly flammable liquids, its vapor and air mixture can form explosive mixture.

Health hazards

Inhaled	Cough. Headache. Fatigue. Drowsiness.
Ingestion	Burning sensation. Headache. Confusion. Dizziness. Unconsciousness.
Skin Contact	Dry skin, no harm in general situation.
Eye	Redness. Pain. Burning.
Eye	Redness. Pain. Burning.

Environmental hazards

Please refer to 12th chapter of SDS.

Composition/information on ingredients

Component	Cas No.	Cas No. EC No. Concentra	
Ethanol	64-17-5	200-578-6	63
Water	7732-18-5	231-791-2	34.125

Glycerol	56-81-5	200-289-5	2
CARBOMER	9003-01-4	618-347-7	0.6
Castor oil, hydrogenated, ethoxylated	61788-85-0	500-147-5	0.2
Lemon, ext.	84929-31-7	284-515-8	0.05
Sodium hydroxide	1310-73-2	215-185-5	0.025

Tirst aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
	No harm in general situation. First aid is not needed.
Ingestion	Rinse mouth. Refer for medical attention.
	Fresh air, rest.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

- 1 | Treat symptomatically.
- 2 Symptoms may be delayed.

55 irefighting measures

Extinguishing media

Suitable extinguishing	Small Fire: Dry chemical, CO ₂ , water spray or alcohol-resistant foam; Large Fire:
media	Water spray, fog or alcohol-resistant foam.
Unsuitable extinguishing	Do not use a solid water stream as it may scatter or spread fire

Specific hazards arising from the substance or mixture

1	Will form explosive mixtures with air.
2	Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration.
3	Vapours may travel to source of ignition and flash back.
4	Liquid and vapour are flammable.
5	Containers may explode when heated.
6	May expansion or decompose explosively when heated or involved in fire.

Advice for firefighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 | Fight fire from a safe distance, with adequate cover.

3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- 1 Avoid breathing vapours and contacting with skin and eye.
- 2 Beware of vapours accumulating to form explosive concentrations.
- 3 Vapours can accumulate in low areas.
- 4 Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
- Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 6 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 7 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

Environmental precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and storage

Precautions for handling

- 1 Avoid inhalation of vapors.
- 2 Use only non-sparking tools.
- To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
- 4 Use explosion proof equipment.
- 5 | Handling is performed in a well ventilated place.
- 6 Wear suitable protective equipment.
- 7 Avoid contact with skin and eyes.
- 8 | Keep away from heat/sparks/open flames/ hot surfaces.

Precautions for storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

8 xposure controls/personal protection

Control parameters

Occupational Exposure limit values

Component	Causatus (Danies	Limit value - Eight hours		Limit value - Short term		
	Country/Region	ppm	mg/m³	ppm	mg/m³	
	USA - OSHA	1000	1900	-	-	
	South Korea	1000	1900	-	-	
Ethanol 64-	Ireland	-	-	1000	-	
17-5	Germany (AGS)	500	960	1000	1920	
	Denmark	1000	1900	2000	3800	
	Australia	1000	1880	-		
	USA - OSHA	-	15	-	-	
	South Korea	-	10	•	-	
Glycerol 56-	Ireland	-	10	-	-	
81-5	Germany (DFG)	-	50	-	100	
	Belgium	-	10	-	-	
	Australia	-	10	-	-	
	USA - OSHA	-	2	-	-	
	Sweden	-	1	-	2	
Sodium	South Korea	-	-	-	2	
hydroxide 1310-73-2	Ireland	-	-	-	2	
	Denmark	-	2	-	2	
	Australia	-	-	-	2	

Biological limit values

Biological limit values No information available

- Monitoring methods
- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard).

Engineering controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

Personal protection equipment

General requirement





Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US). Eye protection

Wear protective gove (ssuch as butyl rubber), passing the tests according to EN Hand protection

374(EU), US F739 or AS/NZS 2161.1 standard.

If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or Respiratory protection

type AXBEK (EN 14387) respirator cartridges.

Skin and body protection Wear fire/flame resistant/retardant clothing and antistatic boots.

Physical and chemical properties

Physical and chemical p	roperties
Appearance	Colorless transparent mucus
Odor	sweet smell
Odor threshold	No information available
рН	7.0 (20°C, 10g/L, Ethanol)
Melting point/freezing point(°C)	
Initial boiling point and boiling range(°C)	79 (Ethanol)
Flash point(Closed cup,°C)	13 (Ethanol)
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	
Vapor pressure	5.8kPa (Ethanol)
Relative vapour density(Air=1)	1.6 (Ethanol)
Relative density(Water=1)	0.79 (Ethanol)
Solubility(mg/L)	Miscible with water (Ethanol)
n-octanol/water partition coefficient	-0.32 (Ethanol)
Auto-ignition temperature(°C)	363 (Ethanol)
Decomposition temperature(°C)	≥700 (Ethanol)
Kinematic viscosity	No information available
Particle characteristics	Not applicable

10 Stability and reactivity

Stability and reactivity

Contact with incompatible substances can cause decomposition or other chemical reactions.

Chemical stability Stable under proper operation and storage conditions.

Possibility	of	hazardous
		reactions

In contact with oxidants causes severe reactions, and may cause a fire or explosion. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. React violently with acids, phenols or alcohols.

Conditions to avoid Incompatible materials, heat, flame and spark.

Incompatible materials

Oxidants, alkali metals, alkaline earth metals and aluminum. Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide. acids, phenols, alcohols and nitro substituted hydrocarbon.

Hazardous decomposition products | should not be produced.

Under normal conditions of storage and use, hazardous decomposition products

11 Toxicological information

Acute toxicity

	1		i .	T.
Component	Cas No.	LD ₅₀ (oral)	LD50(dermal)	LC50(inhalation,4h)
Ethanol	64-17-5	7060mg/kg(Rat)	No information available	39mg/L(Mouse)
Glycerol	56-81-5	12600mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available
CARBOMER	9003-01-4	2500mg/kg(Rat)	No information available	No information available

Carcinogenicity

ID	Cas No.	Component	IARC	NTP
1	64-17-5	Ethanol	Not Listed	Not Listed
2	7732-18-5	Water	Not Listed	Not Listed
3	56-81-5	Glycerol	Not Listed	Not Listed
4	9003-01-4	CARBOMER	Category 3	Not Listed
5	61788-85-0	Castor oil, hydrogenated, ethoxylated	Not Listed	Not Listed
6	84929-31-7	Lemon, ext.	Not Listed	Not Listed
7	1310-73-2	Sodium hydroxide Not Listed		Not Listed

Others

GONG CHEN Disinfectant Gel

Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met

Reproductive toxicity(additional)

Based on available data, the classification criteria are not met

12 Ecological information

Acute	aquatic	toxicity
-------	---------	----------

reace aquatic textions		¥1:	r ·	
Component	Cas No.	Fish	Crustaceans	Algae
Ethanol	64-17-5	LC50: 11000mg/L (96h)(Fish)	EC50: 9950mg/L (48h)(Crustaceans)	No information available
Sodium hydroxide	1310-73-2	LC50: 196mg/L (96h)(Fish)	EC50: 40.4mg/L (48h)(Crustaceans)	No information available
Glycerol	56-81-5	LC50: 68100mg/L (96h)(Fish)	No information available	No information available

|Chronic aquatic toxicity

Chronic aquatic toxicity | No information available

	ı	Persi	istence	and o	dearac	lak	oil	itv
--	---	-------	---------	-------	--------	-----	-----	-----

Component	Cas No.	Persistence (water/soil)	Persistence (air)
Ethanol	64-17-5	Low(Half-life = 2.17 days)	Low(Half-life = 5.08 days)
Water	7732-18-5	Low	Low

Bioaccumulative potential

Component	Cas No.	Bioaccumulative potential	comments
Ethanol	64-17-5	Low	Log Kow=-0.31
Water	7732-18-5	Low	Log Kow=-1.38

Mobility in soil

Component	Cas No.	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Ethanol	64-17-5	High	1
Water	7732-18-5	Low	14.3

Results of PBT and vPvB assessment

Component	Cas No.	Results of PBT and vPvB assessment (according to (EC) No 1907/2006)
Ethanol	64-17-5	not PBT/vPvB
Water	7732-18-5	not PBT/vPvB
Glycerol	56-81-5	not PBT/vPvB
CARBOMER	9003-01-4	not PBT/vPvB
Castor oil, hydrogenated, ethoxylated	61788-85-0	not PBT/vPvB

Lemon, ext.	84929-31-7	not PBT/vPvB			
Sodium hydroxide	1310-73-2	not PBT/vPvB			

13 Disposal considerations

Disposal considerations

Waste chemicals

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

Contaminated packaging Disposal recommendations

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

Refer to section 13.1 and 13.2.

14 Transport information

Label and Mark

Transporting Label



Marine pollutant None

IMDG-CODE

UN number 1170

UN proper shipping

ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Transport hazard class

Transport subsidiary None

hazard class

Packing group Π

Special provisions 144

Limited quantities 1L

Excepted quantities E2

Marine pollutant (Yes or

no)

No

EmS No. F-E,S-D

ICAO/IATA-DGR

UN number 1170

UN proper shipping ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

name

Transport hazard class 3

Transport subsidiary None

hazard class

Packing group II

Excepted quantities E2

Passenger and Cargo Aircraft Limited Quantity

Y341

Distrilectant	version: v1.0.0.1 Revision Date: 2020/03/8
Packing Instructions	
per Package	1 L
Passenger and Cargo Aircraft Packing Instructions	353
Passenger and Cargo Aircraft Maxium net Quantity per Package Cargo Aircraft Packing	
Instructions Cargo Aircraft Maxium net Quantity per (Package	364 50 L
Special provisions /	A3、A58、A180
ERG code	3L
UN-ADR	
UN numbe	1170
UN proper shipping nam	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Transport hazard clas	s 3
Transport subsidiar hazard clas	None
Packing group	э п
Special provision	s 144 601
Limited quantitie	s 1 L
Excepted quantitie	s E2
Packing instruction	P001 IBC02 R001
Special packing provision	-
Mixed packing provision	MP19
Protable tanks and bulk containers instructions	T4
Protable tanks and bull containers specia provision	TP1
ADR tank code	LGBF
ADR tank special provision	s -
Vehicle for tank carriage	FL
Transport category (Tunne restriction code	
Special provisions for carriage(Packages)	-
Special provisions fo carriage(Bulk	
Special provisions fo carriage(Loading,unloading and handling	ı -
Special provisions for carriage(Operation)	S2 S20

Hazard identification No. 33

Notes

15 Regulatory information

International chemical inventory

international chemical inventory										
Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS	
Ethanol	√	√	√	√	√	√	√	√	√	
Water	✓	√	√	√	√	√	√	✓	×	
Glycerol	✓	√	√	√	√	√	√	√	√	
CARBOMER	×	√	√	√	√	√	×	√	√	
Castor oil, hydrogenated, ethoxylated	√	√	√	√	√	√	√	√	√	
Lemon, ext.	✓	×	×	√	√	√	√	√	×	
Sodium hydroxide	√	√	√	√	√	√	√	✓	√	

【EINECS】 European Inventory of Existing Commercial Chemical Substances

[TSCA] United States Toxic Substances Control Act Inventory

[DSL] Canadian Domestic Substances List

[IECSC] China Inventory of Existing Chemical Substances New

[NZIoC] Zealand Inventory of Chemicals

[PICCS] Philippines Inventory of Chemicals and Chemical Substances

[KECI] Existing and Evaluated Chemical Substances

[AICS] Australia Inventory of Chemical Substances Existing And

【ENCS】 New Chemical Substances

Note

"\" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

16 Others

Information on revision

Creation Date 2020/03/8

Revision Date 2020/03/8

Reason for revision

Reference

[1]IPCS:The International Chemical Safety Cards (ICSC) ,website: http://www.ilo.org/dyn/icsc/showcard.home.

[2]IARC, website: http://www.iarc.fr/.

[3]OECD: The Global Portal to Information on Chemical Substances, website:

http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en. [4]CAMEO Chemicals,

website: http://cameochemicals.noaa.gov/search/simple. [5]NLM:ChemIDplus, website:

http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.

[6]EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.

[7]U.S. Department of Transportation:ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.

Disinfectant Gel Version: V1.0.0.1 Revision Date: 2020/03/8

[8]Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS - Chemical Abstracts Service CMR - Carcinogens, mutagens or substances toxic to reproduction

PC-STEL- Short term exposure limit PC-TWA - Time Weighted Average

DNEL - Derived No Effect Level IARC - International Agency for Research on Cancer

RPE - Respiratory Protective Equipment PNEC – Predicted No Effect Concentration

LCso - Lethal Concentration 50% LDso - Lethal Dose 50%

NOEC -No Observed Effect Concentration ECso - Effective Concentration 50%

PBT - Persistent, Bioaccumulative, Toxic

POW - Partition coefficient Octanol:Water

BCF - Bioconcentration factor (BCF)

vpvB - very Persistent, very Bioaccumulative

IMDG-International Maritime Dangerous Goods ICAO/IATA-International Civil Aviation Organization/International Air

Transportation Association

UN-The United Nations ACGIH-American Conference of Governmental Industrial Hygienists

NFPA-National Fire Protection Association

OECD-Organization for Economic Co-operation and Development

Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 8th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.