



Chemical Co., Ltd.

According to UN GHS (the 8th revised edition)

Material Safety Data Sheet (MSDS)



Product Name:	Rinse-free Hand Sanitizer
Model No.:	

Written by: Linda
(Linda)

Inspected by: Jose
(Jose)

Issued by: TUV-Laboratory (China) Service of Testing

Mar. 2020 Print

Material Safety Data Sheet

MSDS No.: EMS.200.123 Initial Date: Mar. 11, 2020 Version: 1.0
Product Name: Rinse-free Hand Sanitizer Revision Date: Mar. 11, 2020 Item No.: 20A020A024

Section 1 - Product and Company Identification

1.1. Product identification

Product name: Rinse-free Hand Sanitizer

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

Identified uses: Wash hands, clean and disinfect

Use advised against: Not available

1.3. Details of the manufacturer and applicant

Applicant: Guangzhou Gotdya Fine Chemical Co., Ltd.

Address: Tuanjie No. 1 Industrial Park, Datangkou Economic Cooperative,
Tuanjie Village, Xinya Street, Huadu District, Guangzhou, P.R. China

Telephone: +86-13710732223

Manufacturer: Guangzhou Dishu Pharmaceutical Co., Ltd.

Address: 3F, H Building, Yongtuo Industrial Zone, Tangge,
Baiyunhu Street, Baiyun District, Guangzhou

1.4. Emergency telephone number

Emergency telephone: +86-13710732223

Section 2 - Hazard Description

Hazard class and label elements of the product according to GHS (the 8th revised edition):

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2.1. GHS Hazard class	
Flammable liquid	Category 2; H225
2.2. GHS label elements	
Pictogram(s)	
Signal word	Danger
2.3. Hazard statements	

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H225	Highly flammable liquid and vapour.
2.4. Precautionary statements	
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.
Response	
p370+p378	In case of fire: Use carbon dioxide, dry powder or water spray for extinction.

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P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Storage	
P403+P235	Store in a well-ventilated place. Keep cool.
Disposal	
	Dispose of contents/container to the approval of the waste treatment plant.

Section 3 - Composition / Ingredient Data

3.1. Material: Not applicable

3.2. Mixture: Applicable

Chemical name	CAS No.	%(by weight)
Ethanol	64-17-5	76.00
Water	7732-18-5	22.97

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Chemical name	CAS No.	%(by weight)
1,2-Propanediol	57-55-6	0.50
Carbomer	9007-20-9	0.35
Triethanolamine	102-71-6	0.18

Section 4 - First Aid Measures

4.1. General advice:

Show this material safety data sheet to the doctor in attendance. After receiving the first-aid measure required, consult a physician if necessary.

Skin contact:

Unlikely to be harmful. If you worry, wash off with mild soap and plenty of water.

Eyes contact:

Check for and remove any contact lenses, do not rubbing eyes with hand. Provide a readily-accessible eyewash facility and quick-drench safety shower. Occasionally lifting the upper and lower eyelids. Immediately flush eyes with running water, disappear until the chemical residues so far. Get medical attention if irritation occurs.

Inhalation:

Move exposed person to fresh air. Keep person warm and at rest. If not breathing or if breathing is irregular, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Ingestion:

Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be

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kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by

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mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

4.2. Most important acute and delayed symptoms/effects:

The most important known symptoms and effects are described in section 2 and/or in section 11.

4.3. Immediate / special treatment:

Continue with first aid measures. Treat symptomatically and supportively. Symptoms may be delayed.

Section 5 — Firefighting Measures

5.1. Extinguishing method and extinguishing agent:

Suitable extinguishing agents: Use dry sand, dry chemical or CO2 foam extinguishing. Water spray can be used to cool fire exposed containers/materials. Use extinguishing media most appropriate for the surrounding fire.

Unsuitable extinguishing agents: Do not use a solid water stream as it may scatter or spread fire.

5.2. Special hazards arising from the substance or mixture:

If this product is involved in a fire, the following can be released: Carbon oxides, nitrogen oxides.

5.3. Fire precautions and measures:

Firefighters must wear self-contained breathing apparatus, wear full body fire suit, fire extinguishing in the upwind. As far as possible will be transferred to empty containers from the scene. Keep the fire water spray container cooling, until the end of fire. If the containers in the fire ground have been color, must be evacuated immediately. Isolated accident scene, prohibit access. Receiving and processing of fire, to prevent environmental pollution.

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Section 6 - Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Avoid breathing vapors and contacting with skin and eye. Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas. Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.

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Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapours, mist, gas or dust. Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions:

Prevent further leakage or spillage if safe to do so. To prevent leak into the water, the basement and limited space. Prevent entry into the sewage system.

6.3. Collecting, clearing method and disposal material:

Collecting, clearing method and disposal material: Small spill: Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container.

Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor.

Contaminated absorbent material may pose the same hazard as the spilt product.

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Section 7 - Handling and Storage

7.1. Handling precautions:

Appropriate amount of gel applied to the palm. Gently spread and apply evenly on the palms, arms, fingers and hands. Finally, rub your hands continuously until they are dry. For external use only, not for internal use. Do not use if you are allergic to alcohol or have a wound on the area. In word, put on appropriate personal protective equipment (see section 8). Avoid inhalation of vapors. Use only non-sparking tools. To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded. Use explosion proof equipment. Handling is performed in a well ventilated place. Wear suitable protective equipment. Avoid contact with skin and eyes. Keep away from heat/sparks/open flames/hot surfaces. Take precautionary measures against static discharges. Handling carefully to prevent damage the packaging and container. Take precautionary measures against static discharges.

7.2. Information for protection against explosions and fires:

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General rules of fire prevention should be observed. Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of steam). Keep away from open flames, hot surfaces and sources of ignition. Steam might form explosive mixtures with air, open flame and mars.

7.3. Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep away from heat/sparks/open flames/ hot surfaces. Keep container tightly closed and sealed until ready for use. Equipped with corresponding varieties and number of fire equipment and spill contingency processing equipment. Avoid contact with children, avoid eating. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

7.4. Packaging materials:

Recommended-Use original container.

Section 8 - Exposure Controls/ Personal Protection

8.1. Exposure limit:

Chemical name	CAS No.	Limit
Ethanol	64-17-5	ACGIH TLV-MA 1880 mg/m ³ (1000 ppm), OSHA PEL (Gen Indu): 8H TWA 1000 ppm (1900 mg/m ³)
Triethanolamine	102-71-6	ACGIH TLV-MA 5 mg/m ³

8.2. Engineering control:

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

8.3. Personal protection:

Respiratory protection:

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If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Eye protection:

Wear safety glasses when there is a potential for eye contact.

Skin and body protection:

Wear fire/flammable resistant/retardant clothing and antistatic boots.

Hands protection:

Protective gloves.

Check protective gloves prior to each use for their proper condition.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Remark:

No special protection required in normal use

Other protection:

Smoking, eating and drinking water is forbidden in the workplace. After work, shower and change clothes.

Section 9 - Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	Transparent gel
Odor:	Alcoholic
Melting point / freezing point(°C):	
Boiling point(°C):	Ca. 80
Flash point(Closed cup, °c):	
Steam pressure(20°C):	No data available/Not applicable

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Relative density (water=1 , 20 °C):	No data available/Not applicable
Partition coefficient: n-octanol/water:	No data available/Not applicable
Decomposition temperature(°C):	No data available/Not applicable
pH value:	No data available/Not applicable
Explosion limit:	Upper limit: 19; Lower limit: 3.3 (Absolute ethanol)
Relative vapor density:	1.6 (Absolute ethanol)
Water soluble:	Soluble in water
Flammability (solid, gas):	No data available/Not applicable
Oxidizing properties:	The substance or mixture is not classified as oxidizing

9.2. Other safety information

No data available/Not applicable

Section 10 - Stability and Reactivity

10.1. Stability:

The product is chemically stable.

10.2. Reactivity:

Stable under recommended storage and handling conditions.

10.3. Incompatible materials:

Strong oxidizing agents, strong acids and strong bases.

10.4. Conditions to avoid:

Incompatible materials, high temperature, sparks and open fire.

10.5. Hazardous polymerization:

Will not occur.

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10.6. Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 - Toxicological Information

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11.1. Acute toxicity:

Component	CAS No.	LD50(Oral)	LD50(Dermal)	LCso(Inhalation)
Ethanol	64-17-5	Rat: 7060mg/kg Mouse: 3450mg/kg Rabbit: 6300mg/kg	No data	Mouse: 39000mg/m ³ /4H
Triethanolamine	102-71-6	Rat: 5846mg/kg Mouse: 2200mg/kg	No data	No data
1,2-Propanediol	57-55-6	Rat: 20000mg/kg Mouse: 22000mg/kg Rabbit: 18500mg/kg	No data	No data

11.2. Skin corrosion/irritation:

Ingredient name	CAS No.	Species	Route	Value	Result	Type of test
Ethanol	64-17-5	Rabbit	Skin	20mg/24H	Moderate	Standard Draize test
Triethanolamine	102-71-6	Rabbit	Skin	560mg/24H	Mild	Standard Draize test
1,2-Propanediol	57-55-6	Rabbit	Skin	100mg	Mild	Standard Draize test

11.3. Eye corrosion/irritation:

Ingredient name	CAS No.	Species	Route	Value	Result	Type of test
Ethanol	64-17-5	Rabbit	Eye	500mg/24H	Mild	Standard Draize test
Triethanolamine	102-71-6	Rabbit	Eye	10mg	Mild	Standard Draize test

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1,2-Propanediol	57-55-6	Rabbit	Eye	500mg/24H	Mild	Standard Draize test
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11.4. Respiratory or skin sensitization:

These products are not known to cause skin and human respiratory sensitization.

11.5. Germ cell mutagenicity:

According to the existing data, the product is not classified.

11.6. Carcinogenicity:

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP,

OSHA or ACGIH.

11.7. Reproductive toxicity:

According to the existing data, the product is not classified.

11.8. Specific target organ toxicity - single exposure:

According to the existing data, the product is not classified.

11.9. Specific target organ toxicity - repeated exposure:

According to the existing data, the product is not classified.

11.10. Aspiration hazard:

According to the existing data, the product is not classified.

Section 12 - Ecological Information

12.1. Ecotoxicity values:

Acute aquatic toxicity

CAS No.	LC50 Fish(96h)	EC50 Crustaceans(48h)	ErC50 Algae
64-17-5	11000mg/L	9950mg/L	No data

12.2. Persistence and degradability:

The products are usually with natural biodegradable.

12.3. Bioaccumulative potential:

The potential for bioaccumulation of this material in aquatic organisms is low.

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12.4. Mobility in soil:

Will penetrate into the soil, will be dissolved in the soil material.

12.5. Other adverse effects:

Under environmental conditions, is not expected to have a detrimental effect on plants, animals or microorganisms. But do not allow material to be released to the environment without proper governmental permits.

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Section 13 - Disposal Considerations

13.1. Residual waste:

The generation of waste should be avoided or minimized wherever possible. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is flammable.

13.2. Contaminated packaging:

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

13.3. Disposal considerations:

Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with national and local relevant regulations laws.

Section 14 - Transport Information

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According to IATA DGR 61th Edition for transportation, IMO International Maritime Dangerous Goods Code (Amendment 39-18), European Agreement Concerning the International Carriage of Dangerous Goods by

Road. The products are subject to IATA DGR, IMDG and ADR/RID.

14.1. Label(s) required	
	
14.2. Land transport (ADR)	
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	Class: 3 Subrisk: None
Packaging group:	II

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Initial Date: Mar. 11, 2020

Version: 1.0

Product Name: Rinse-free Hand Sanitizer Revision Date: Mar. 11, 2020 Item No.: 20A020A024

Special provisions:	1441601
14.3. Air transport (ICAO-IATA / DGR)	
UN number:	1170
IUN proper shipping name:	Ethanol solution
Transport hazard class(es):	Class: 3 Subrisk: None
Packaging group:	
ERG Code:	
14.4. Sea transport (IMDG-Code)	
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	Class: 3 Subrisk: None
Packaging group:	II
Environmental hazards Marine pollutants:	No
Erns No:	F-E, S-D
Special provisions:	144 223

Section 15 - Regulatory Information

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15.1. Regulatory information: Reference to the local, national, US, EU, CA and international regulations.

CAS No.	TSCA	EINECS	DSL	IECSC	NZIoC	PICCS	KECI	AICS
64-17-5								
7732-18-5								
57-55-6								
9007-20-9								

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CAS No.	TSCA	EINECS	DSL	IECSC	NZ10C	PICCS	KECI	AICS
102-71-6								

TSCA: United States Toxic Substances Control Act Inventory

EINECS: European Inventory of Existing Commercial Chemical Substances

DSL: Canadian Domestic Substances List

IECSC: China Inventory of Existing Chemical Substances

PICCS: Philippines Inventory of Chemicals and Chemical Substances

NZIoC: New Zealand Inventory of Chemicals

KECI: Existing and Evaluated Chemical Substances

AICS: List of existing chemical substances in Australia

Note

"Q" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

Section 16 - Other Information

Abbreviations or phrases:

ACGIH American Conference of Governmental Industrial Hygienists

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ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, labeling and packaging
EC	Council of Europe
ECHA	• European Chemicals Agency
EINECS	European Inventory of Existing commercial Chemical Substances
CHS	Globally Harmonized System of Classification and Labelling of Chemicals
IARC	International Agency for Research on Cancer
IATA	• International Air Transport Association

1.0

ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
IC50	Inhibitory Concentration 50%
LC50	Lethal Concentration 50%
LD50	Median Lethal Dose 50%
MAPROL	International Convention for the Prevention of Pollution from Ships
REACH	REGULATION concerning the Registration, Evaluation, Authorization and Restriction of Chemicals
RID	Regulation for rail International transportation of Dangerous goods

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STEL	Short Term Exposure Limit
	Time Weighted Average
MAC	Maximum Allowable Concentration
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health
TLV	Threshold Limit Value
TLV-TVVA	Threshold Limit Value-Time Weighted Average
TLV- STEL	Threshold Limit Value-Short term Exposure Limit
PC-TWA	Permissible Concentration-Time Weighted Average
PC-STEEL	Permissible Concentration-Short Term Exposure Limit
PEL	Permissible Exposure Limit
OELs	Occupational Exposure Limits

The above information is believed to be correct but we can not guarantee the absolute universality and accuracy and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. The above-named manufacturer and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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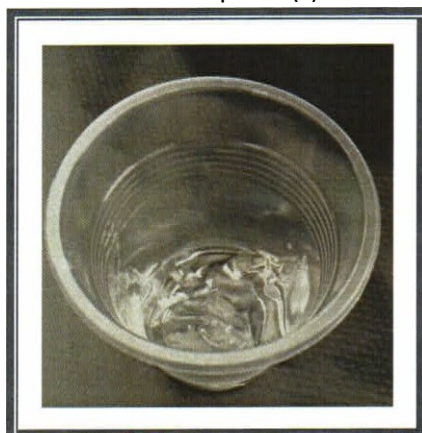
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Product photo(s)



***END OF REPORT

Service

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