



安全資料表

危害物料資料

1. 產品與用途							
1.1 物料名稱	: Medicom MediGel						
1.2 用途	: 消毒搓手液						
2. 危害成份							
2.1 危害分類及標籤 :							
	有害	有毒	腐蝕性	易燃	刺激性	爆炸性	助燃
	()	()	()	(✓)	()	()	()
2.2 酸鹼值(pH)	: 7.0			2.3 曝露限制(OEL)	: 不適用		
2.4 致癌物質	: 乙醇			2.5 其他危害	: 高度易燃		
2.5 潛在危害	: 在重複或長期職業接觸後，物質可能會在人體內累積，並可能引起一些擔憂。						
3. 火警和爆炸資料							
3.1 燃燒物成份比例 :	無資料	3.2 沸點	: >35°C	3.3 溶點	: 無資料		
3.4 閃點(°C)	: 20.0	3.5 比重	: 無資料	3.6 氣壓力	: 無資料		
3.7 爆炸極限(濃度)	: 無資料	3.8 溶解度	: 可溶解	3.9 氣味	: 無資料		
3.10 滅火設備	: 使用水, 二氧化碳, 乾燥沙, 滅火乾粉或泡沫滅火器						
4. 急救處理							
4.1 眼睛接觸	: 用大量清水沖洗幾分鐘, 請尋求醫療護理。						
4.2 皮膚接觸	: 脫掉被污染的衣服。用水和肥皂清洗皮膚。						
4.3 吸入	: 如呼吸困難, 移至空氣清新處, 請尋求醫療護理。						
4.4 食入	: 吐出口中產品, 用大量清水漱口, 並盡早求醫。						
5. 個人防護裝備							
<input checked="" type="checkbox"/> 防護手套	<input checked="" type="checkbox"/> 防護衣	<input checked="" type="checkbox"/> 護目鏡	<input checked="" type="checkbox"/> 臉部防護罩				
6. 處理及使用應知事項							
6.1 儲存注意事項:	<ul style="list-style-type: none"> • 遠離熱源、熱表面、火花、明火和其他火源。 • 貯存於乾燥, 陰涼通風場所, 保持容器密閉。 						
6.2 意外洩漏處理的方法:	- 使用個人防護裝備, 不要吸入氣體/煙霧/蒸氣/噴霧。 - 確保足夠的通風。移除所有火源。採取預防措施防止靜電放電。 - 將人員疏散至安全區域。讓人們遠離洩漏並位於洩漏的逆風位置。						
7. 其他資料							
- 嚴禁飲食或吸煙 - 所有受污衣物立即脫掉							

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name : Medicom Medigel
Distributor : A. R. Medicom Inc. (Asia) Limited
: Suite 11, 11/F, Kodak House II, 39 Healthy Street East,
: North Point, Hong Kong
: Tel. No.: +852-2179-7105
: Fax No.: +852-2147-4665
Application of Substance/
preparation : Antibacterial

SECTION 2 – PHYSICAL AND CHEMICAL PROPERTIES**Physical and chemical properties**

Physical State	Liquid
Colour	Colourless
Odor	No information available
Odor threshold	No information available
pH	7 (Neutral)
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	>35
Flash point(Closed cup, °C)	20.0 ASTM D 7094
Evaporation rate	No information available
Flammability	Highly flammable
Upper/lower explosive limits[% (v/v)]	Upper limit: No information available Lower limit: No information available
Vapor pressure	No information available
Vapor density(Air = 1)	No information available
Relative density(Water=1)	No information available
Solubility	Soluble in water
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity(mm²/s)	No information available
Explosive properties	Non explosive
Oxidizing properties	Not oxidizing
Particle characteristics	Not applicable

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SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture	Mixture		
Component	Weight % content (or range)	Classification according to Regulation EC No. 1272/2008 [CLP]	Specific Conc. Limits, M-factors
Ethanol CAS: 64-17-5 EC:200-578-6 Index No.:603-002-00-5	70~80	Flammable Liquids, Category 2 ,H225	-
Water CAS:7732-18-5 EC:231-791-2 Index No.:-	18~28	Not Classified -	-

SECTION 4 – HAZARD IDENTIFICATION

CLP classification according to Regulation EC No. 1272/2008

Flammable Liquids Category 2

GHS Label elements

Hazard pictograms



Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour

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 6 of the SDS to extinguish.

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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.

Other hazards

Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Ethanol	Not PBT/vPvB
Water	Not available

Results of endocrine disrupting properties assessment

Component	Results of endocrine disrupting properties assessment [according to (EU) No 2017/2100 or (EU) No 2018/605]
Ethanol	Not available
Water	Not available

SECTION 5 – FIRST 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	Eye contact First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Ingestion	Rinse mouth. Refer for medical attention.
Inhalation	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/effects, acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
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Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

SECTION 6 – FIRE-FIGHTING MEASURES**Extinguishing media**

Suitable extinguishing media Small Fire : Dry chemical, CO₂, water spray or alcohol-resistant foam; Large Fire : Water spray, fog or alcohol-resistant foam.

Unsuitable extinguishing media 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 Development of hazardous combustion gases or vapor possible in the event of fire.
- 6 May expansion or decompose explosively when heated or involved in fire.

Advice for firefighters

- 1 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.

SECTION 7 – 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.
- 5 Use personal protective equipment, do not breathe gas/mist/vapour/spray.
- 6 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 7 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

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

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- 1 It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-static clothing.
- 2 In case of small amount of spillage, use clean non sparking tools to collect absorption materials.
- 3 In case of large amount of spillage, construct cofferdam or dig a hole to collect the spillage. Use foam cover to reduce evaporation. Water spray mist can reduce evaporation, but can not reduce the flammability of the leakage in the restricted space.
- 4 Collect absorbent material using a clean, non-sparking tool.
- 5 Cover with anti-solvent foam to reduce evaporation.
- 6 Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
- 7 Water spray reduces evaporation but does not reduce the flammability of spills in confined spaces.
- 8 Cut off the source of the leak as much as possible.
- 9 Keep leaks in a ventilated place.
- 10 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 11 Remove all sources of ignition. Use spark proof tools and explosion proof equipment.
- 12 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container.
- 13 Remove all sources of ignition. Use spark proof tools and explosion proof equipment.

SECTION 8 – HANDLING AND STORAGE

Precautions for safe handling

Protective measures

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.

Measures to prevent fire

- 1 Use only non-sparking tools.
- 2 To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
- 3 Use explosion proof equipment.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.

Measures to prevent aerosol and dust generation

- 1 Not applicable.

Advice on general occupational hygiene

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- 1 Wash hands and face after using of the substances.
- 2 Replace the contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities

- 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.

Specific end use(s)

- 1 In addition to use mentioned in the first parts, unforeseen other specific end uses.

SECTION 9 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Country/Region	Limit value Eight hours		Limit value Short term	
		ppm	mg/m ³	ppm	mg/m ³
Ethanol	USA-OSHA	1000	1900		
	South Korea	1000	1900		
	Ireland			1000	
	Germany (AGS)	500	960	1000	1920
	Denmark	1000	1900	2000	3800
	Australia	1000	1880		

Biological limit values

Biological limit values No relevant regulations

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 300 series standard Determination of toxic substances in workplace air.

Derived No effect level (DNEL)

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Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Ethanol	Inhalation	No data available	No data available	No data available	950 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Water	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC) No information available

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



- | | |
|--------------------------|---|
| Eye protection | Must wear appropriate safety goggles. |
| Hand protection | Must wear anti static chemical protective gloves. |
| Respiratory protection | Must wear appropriate personal respiratory protective equipment. |
| Skin and body protection | Must wear anti static chemical protective clothing and anti static shoes. |

SECTION 10 – STABILITY AND REACTIVITY

Stability and reactivity

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

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

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity

Component	LD 50 (oral)	LD 50 (dermal)	LC 50 (inhalation,4h)
Ethanol	7060mg/kg(Rat)	No information available	39mg/L(Mouse)

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Ethanol	Category 1	Not Listed
Water	Not Listed	Not Listed

Endocrine disrupting properties

Component	Endocrine disrupting properties
Ethanol	Not available
Water	Not available

Others

Hand-rubbing disinfection

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

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Reproductive toxicity(additional) Based on available data, the classification criteria are not met

SECTION 12 – ECOLOGICAL INFORMATION
Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
Ethanol	LC ₅₀ :1200mg/L(96h)(Fish)	EC ₅₀ :9950mg/L (48h)	No information available

Chronic aquatic toxicity

Chronic aquatic toxicity No information available

Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Ethanol	Low(Half Half-life = 2.17 days)	Low(Half Half-life = 5.08 days)
Chronic aquatic toxicity	Low	Low

Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Ethanol	Low	Low
Water	Low	Low

Mobility in soil

Component	Mobility in soil	Soil Organic Carbon Carbon-Water Partitioning Coefficient (Koc)
Ethanol	High	1
Water	Low	14.3

Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Ethanol	Not PBT/vPvB
Water	Not available

Endocrine disrupting properties

Component	Endocrine disrupting properties
Ethanol	Not available
Water	Not available

SECTION 13 – DISPOSAL CONSIDERATIONS
DISPOSAL CONSIDERATIONS

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Safety Data Sheet

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation.
Contaminated packaging	Recommend the use of incineration disposal.
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 waste chemicals and contaminated packaging.

SECTION 14 – TRANSPORT INFORMATION

Label

Transporting Label



IMDG-CODE

UN number	1170
UN proper shipping name	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Transport hazard class	3
Transport subsidiary hazard class	None
Packing group	II
Marine pollutant (Yes or no)	No

ICAO/IATA-DGR

UN number	1170
UN proper shipping name	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Transport hazard class	3
Transport subsidiary hazard class	None
Packing group	II

UN-ADR

UN number	1170
UN proper shipping name	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Transport hazard class	3
Transport subsidiary hazard class	None
Packing group	II

SECTION 15 – REGULATORY INFORMATION

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International chemical inventory

Component	EC inventory	TSCA	DSL	IECSL	NZIoC	PICCS	KECI	ALLCS	ENCS
Ethanol	✓	✓	✓	✓	✓	✓	✓	✓	✓
Water	✓	✓	✓	✓	✓	✓	✓	✓	✓

EC inventory	European Inventory of Existing Commercial Chemical Substances
TSCA	United States Toxic Substances Control Act Inventory
DSL	Canadian Domestic Substances List
IECSL	China Inventory of Existing Chemical Substances
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippines Inventory of Chemicals and Chemical Substances
KECI	Korea Existing Chemicals Inventory
ALLCS	Australian. Inventory of Industrial Chemical (AIICS)
ENCS	Japan Inventory of Existing & New Chemical Substances

European chemical inventory

Component	A	B	C	D	E	F	G
Ethanol	x	x	x	✓	✓	x	x
Water	x	x	x	✓	x	x	x

A	Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
B	Substances requiring authorisation under EU REACH regulation
C	Substances restricted under EU REACH
D	Pre-registered substances under EU REACH
E	Registered substances under EU REACH
F	Substance Evaluation-CoRAP under EU REACH
G	List of priority substances under EU water policy (Directive 2455/2001/EC)

Note: "✓" Indicates that the substance included in the regulations.
 "x" No data or not included in the regulations.

NOTICE TO READER

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. We make no representation as to completeness or accuracy. In no event shall we be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

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