

**Safety Data Sheet (SDS) Report**

Applicant: Jiangsu Yishun Medical Equipment Co.,Ltd  
NO.25 HAIYAN ROAD,BINHAI INDUSTRIAL ZONE, QIDONG, JIANGSU, CHINA

**SDS number: SHAH01156708**

Issue Date: 2019-10-31

## Sample Description:

The sample information was submitted and identified on client's behalf to be:

Product Name : Gel in ice sleeve(Hot cold gel pack)  
Physical State : Gel  
Data Received : Oct 25, 2019  
Data Reviewed : Oct 31, 2019

## Service Requested:

Based on the information provided by the applicant, the Safety Data Sheet (SDS) was generated in accordance with requirements of OSHA HazCom Standard (2012), for details please refer to attached pages.

## Authorized By:

On Behalf Of Regulatory Affairs in Intertek Testing Services Ltd., Shanghai



Anna Wang  
Regulatory Consultant

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# Safety Data Sheet

## Gel in ice sleeve(Hot cold gel pack)

Jiangsu Yishun Medical Equipment Co.,Ltd

SDS Number: SHAH01156708

Version No:1.0

Issue Date:31/10/2019

According to OSHA HazCom Standard (2012) requirements

GHS.USA.EN

### SECTION 1 IDENTIFICATION

#### Product Identifier

|                               |                                      |
|-------------------------------|--------------------------------------|
| Product name                  | Gel in ice sleeve(Hot cold gel pack) |
| Other means of identification | Not Available                        |

#### Recommended use of the chemical and restrictions on use

|                          |                       |
|--------------------------|-----------------------|
| Relevant identified uses | hot cold use for body |
|--------------------------|-----------------------|

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

|                     |  |
|---------------------|--|
| Supplier Name       | Jiangsu Yishun Medical Equipment Co.,Ltd                 |
| Address             | NO.25 HAIYAN ROAD,BINHAI INDUSTRIAL ZONE, JIANGSU, CHINA |
| Telephone           | +86-18019316437  |
| Emergency Telephone | +86-18019316437  |
| Fax                 | +86-021-58156440   |
| Email               | yishun18@yishun.cn                                       |
| Importer Name       |  |
| Address             |  |
| Telephone           |  |
| Email               |  |

#### Emergency phone number

|                                   |  |
|-----------------------------------|--|
| Association / Organisation        |  |
| Emergency telephone numbers       |  |
| Other emergency telephone numbers |  |

### SECTION 2 HAZARD(S) IDENTIFICATION

#### Classification of the substance or mixture

Not considered a Hazardous Substance by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Not classified as Dangerous Goods for transport purposes.

|                |                |
|----------------|----------------|
| Classification | Not Classified |
|----------------|----------------|

#### Label elements

|                     |                |
|---------------------|----------------|
| Hazard pictogram(s) | Not Applicable |
|---------------------|----------------|

|             |                       |
|-------------|-----------------------|
| SIGNAL WORD | <b>NOT APPLICABLE</b> |
|-------------|-----------------------|

#### Hazard statement(s)

Not Applicable

#### Hazard(s) not otherwise classified

Not Applicable

#### Supplementary statement(s)

Not Applicable

#### Precautionary statement(s) Prevention

Not Applicable

#### Precautionary statement(s) Response

Not Applicable

#### Precautionary statement(s) Storage

Not Applicable

Continued...

## Gel in ice sleeve(Hot cold gel pack)

### Precautionary statement(s) Disposal

Not Applicable

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

### Mixtures

| CAS No     | %[weight] | Name  |
|------------|-----------|---|
| 25987-30-8 | 35        | acrylic acid/ acrylamide copolymer, sodium salt |
| 56-81-5    | 30        | glycerine                                       |
| 7732-18-5  | 29        | water   |
| 9005-38-3  | 4         | sodium alginate                                 |
| 9000-70-8  | 2         | gelatine  |

## SECTION 4 FIRST-AID MEASURES

### Description of first aid measures

|                     |   |
|---------------------|---|
| <b>Eye Contact</b>  | If this product comes in contact with eyes: <ul style="list-style-type: none"> <li>▸ Wash out immediately with water.</li> <li>▸ If irritation continues, seek medical attention.</li> <li>▸ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> |
| <b>Skin Contact</b> | If skin or hair contact occurs: <ul style="list-style-type: none"> <li>▸ Flush skin and hair with running water (and soap if available).</li> <li>▸ Seek medical attention in event of irritation.</li> </ul>   |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▸ If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>▸ Other measures are usually unnecessary.</li> </ul>   |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <li>▸ Immediately give a glass of water.</li> <li>▸ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>   |

### Most important symptoms and effects, both acute and delayed

See Section 11

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5 FIRE-FIGHTING MEASURES

### Extinguishing media

- Foam.
- Dry chemical powder.

### Special hazards arising from the substrate or mixture

|                             |  |
|-----------------------------|--|
| <b>Fire Incompatibility</b> | ▸ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result |
|-----------------------------|--|

### Special protective equipment and precautions for fire-fighters

|                              |  |
|------------------------------|--|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>▸ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▸ Wear full body protective clothing with breathing apparatus.</li> </ul>  |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▸ Combustible.</li> <li>▸ Slight fire hazard when exposed to heat or flame.</li> </ul> Combustion products include: <ul style="list-style-type: none"> <li>▸ carbon dioxide (CO<sub>2</sub>)</li> <li>▸ carbon monoxide(CO)</li> <li>▸ nitrogen oxides (NO<sub>x</sub>)</li> <li>▸ other pyrolysis products typical of burning organic material.</li> </ul> |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

See section 8

### Environmental precautions

See section 12

## Gel in ice sleeve(Hot cold gel pack)

## Methods and material for containment and cleaning up

|                     |  |
|---------------------|--|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> </ul> |
| <b>Major Spills</b> | <ul style="list-style-type: none"> <li>Clear area of personnel and move upwind.</li> </ul>                               |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 HANDLING AND STORAGE

## Precautions for safe handling

|                          |   |
|--------------------------|---|
| <b>Safe handling</b>     | <ul style="list-style-type: none"> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> </ul> |
| <b>Other information</b> | <ul style="list-style-type: none"> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> </ul>   |

## Conditions for safe storage, including any incompatibilities

|                                |                                      |
|--------------------------------|--------------------------------------|
| <b>Suitable container</b>      | polyamides                           |
| <b>Storage incompatibility</b> | Avoid reaction with oxidising agents |

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## Control parameters

## OCCUPATIONAL EXPOSURE LIMITS (OEL)


## INGREDIENT DATA

| Source  | Ingredient | Material name   | TWA           | STEL          | Peak          | Notes          |
|---|------------|---|---------------|---------------|---------------|----------------|
| US NIOSH Recommended Exposure Limits (RELs)           | glycerine  | Glycerin (anhydrous); Glycerol; Glycyl alcohol; 1,2,3-Propanetriol; Trihydroxypropane | Not Available | Not Available | Not Available | See Appendix D |
| US OSHA Permissible Exposure Levels (PELs) - Table Z1 | glycerine  | Glycerin (mist): Respirable fraction  | 5 mg/m3       | Not Available | Not Available | Not Available  |
| US OSHA Permissible Exposure Levels (PELs) - Table Z1 | glycerine  | Glycerin (mist): Total dust   | 15 mg/m3      | Not Available | Not Available | Not Available  |

## EMERGENCY LIMITS

| Ingredient      | Material name                          | TEEL-1        | TEEL-2    | TEEL-3      |
|-----------------|--|---------------|-----------|-------------|
| glycerine       | Glycerine (mist); (Glycerol; Glycerin) | 45 mg/m3      | 860 mg/m3 | 2,500 mg/m3 |
| Ingredient      | Original IDLH                          | Revised IDLH  |           |             |
| All Ingredients | Not Available                          | Not Available |           |             |

## Exposure controls

|   |  |
|---|--|
| <b>Appropriate engineering controls</b> | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.   |
| <b>Personal protection</b>              |   |
| <b>Eye and face protection</b>          | <ul style="list-style-type: none"> <li>Safety glasses with side shields</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.</li> </ul>   |
| <b>Skin protection</b>                  | See Hand protection below  |
| <b>Hands/feet protection</b>            | <p>Wear general protective gloves, eg. light weight rubber gloves.</p> <p>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p> |
| <b>Body protection</b>                  | See Other protection below   |
| <b>Other protection</b>                 | <p>No special equipment needed when handling small quantities.</p> <p><b>OTHERWISE:</b></p> <ul style="list-style-type: none"> <li>Overalls.</li> </ul>  |

## Respiratory protection

## Gel in ice sleeve(Hot cold gel pack)

Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

|   |                 |  |               |
|---|-----------------|--|---------------|
| <b>Appearance</b>                                   | Transparent gel |  |               |
| <b>Physical state</b>                               | Gel             | <b>Relative density (Water = 1)</b>            | Not Available |
| <b>Odour</b>  | Not Available   | <b>Partition coefficient n-octanol / water</b> | Not Available |
| <b>Odour threshold</b>                              | Not Available   | <b>Auto-ignition temperature (°C)</b>          | Not Available |
| <b>pH (as supplied)</b>                             | Not Available   | <b>Decomposition temperature</b>               | Not Available |
| <b>Melting point / freezing point (°C)</b>          | Not Available   | <b>Viscosity (cSt)</b>                         | Not Available |
| <b>Initial boiling point and boiling range (°C)</b> | Not Available   | <b>Molecular weight (g/mol)</b>                | Not Available |
| <b>Flash point (°C)</b>                             | Not Available   | <b>Taste</b>                                   | Not Available |
| <b>Evaporation rate</b>                             | Not Available   | <b>Explosive properties</b>                    | Not Available |
| <b>Flammability</b>                                 | Not Flammable   | <b>Oxidising properties</b>                    | Not Available |
| <b>Upper Explosive Limit (%)</b>                    | Not Available   | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Available |
| <b>Lower Explosive Limit (%)</b>                    | Not Available   | <b>Volatile Component (%vol)</b>               | Not Available |
| <b>Vapour pressure (kPa)</b>                        | Not Available   | <b>Gas group</b>                               | Not Available |
| <b>Solubility in water</b>                          | Not Available   | <b>pH as a solution (1%)</b>                   | Not Available |
| <b>Vapour density (Air = 1)</b>                     | Not Available   | <b>VOC g/L</b>                                 | Not Available |

## SECTION 10 STABILITY AND REACTIVITY

|   |   |
|---|---|
| <b>Reactivity</b>                         | See section 7   |
| <b>Chemical stability</b>                 | Product is considered stable and hazardous polymerisation will not occur. |
| <b>Possibility of hazardous reactions</b> | See section 7   |
| <b>Conditions to avoid</b>                | See section 7   |
| <b>Incompatible materials</b>             | See section 7   |
| <b>Hazardous decomposition products</b>   | See section 5   |

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

|  |  |
|--|--|
| <b>Acute Toxicity</b>                    | sodium alginate  |
|  | Oral (rat) LD50: >5000 mg/kg[2]  |
|  | glycerine  |
|  | Oral (guinea pig) LD50: 7750 mg/kg[2]<br>Oral (mouse) LD50: 4090 mg/kg[2]<br>Oral (rat) LD50: 12600 mg/kg[2]   |
| <b>Skin Irritation/Corrosion</b>         | Based on available data, the classification criteria are not met   |
| <b>Respiratory or Skin sensitisation</b> | Based on available data, the classification criteria are not met   |
| <b>Serious Eye Damage/Irritation</b>     | Based on available data, the classification criteria are not met   |
| <b>Mutagenicity</b>                      | Based on available data, the classification criteria are not met   |
| <b>Carcinogenicity</b>                   | Based on available data, the classification criteria are not met   |
| <b>Reproductivity</b>                    | Based on available data, the classification criteria are not met   |
| <b>STOT - Single Exposure</b>            | Based on available data, the classification criteria are not met   |
| <b>STOT - Repeated Exposure</b>          | Based on available data, the classification criteria are not met   |
| <b>Aspiration Hazard</b>                 | Based on available data, the classification criteria are not met   |
| <b>Legend:</b>                           | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |

## Gel in ice sleeve(Hot cold gel pack)

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

|                                      |  |
|--------------------------------------|--|
| Gel in ice sleeve(Hot cold gel pack) | Based on available data, the classification criteria are not met |
|--------------------------------------|--|

## Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------|-------------------------|------------------|
| glycerine  | LOW                     | LOW              |

## Bioaccumulative potential

| Ingredient | Bioaccumulation      |
|------------|----------------------|
| glycerine  | LOW (LogKOW = -1.76) |

## Mobility in soil

| Ingredient | Mobility       |
|------------|----------------|
| glycerine  | HIGH (KOC = 1) |

## SECTION 13 DISPOSAL CONSIDERATIONS

## Waste treatment methods

|                              |  |
|------------------------------|--|
| Product / Packaging disposal | <ul style="list-style-type: none"> <li>▶ <b>DO NOT allow wash water from cleaning or process equipment to enter drains.</b></li> <li>▶ It may be necessary to collect all wash water for treatment before disposal.</li> <li>▶ Recycle wherever possible or consult manufacturer for recycling options.</li> <li>▶ Consult State Land Waste Authority for disposal.</li> </ul> |
|------------------------------|--|

## SECTION 14 TRANSPORT INFORMATION

|                  |    |
|------------------|----|
| Marine Pollutant | NO |
|------------------|----|

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

None

## SECTION 15 REGULATORY INFORMATION

## Safety, health and environmental regulations / legislation specific for the substance or mixture

## ACRYLIC ACID/ ACRYLAMIDE COPOLYMER, SODIUM SALT IS FOUND ON THE FOLLOWING REGULATORY LISTS

|   |  |
|---|--|
| US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory | US TSCA Chemical Substance Inventory - Interim List of Active Substances |
|---|--|

## GLYCERINE IS FOUND ON THE FOLLOWING REGULATORY LISTS

|   |   |
|---|---|
| US - Alaska Limits for Air Contaminants   | US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants |
| US - Hawaii Air Contaminant Limits  | US - Washington Permissible exposure limits of air contaminants                               |
| US - Idaho - Limits for Air Contaminants  | US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants              |
| US - Michigan Exposure Limits for Air Contaminants  | US NIOSH Recommended Exposure Limits (RELs)   |
| US - Minnesota Permissible Exposure Limits (PELs)   | US OSHA Permissible Exposure Levels (PELs) - Table Z1   |
| US - Oregon Permissible Exposure Limits (Z-1)   | US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory                         |
| US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants                   | US TSCA Chemical Substance Inventory - Interim List of Active Substances                      |
| US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants |   |

## WATER IS FOUND ON THE FOLLOWING REGULATORY LISTS

|   |  |
|---|--|
| US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory | US TSCA Chemical Substance Inventory - Interim List of Active Substances |
|---|--|

## SODIUM ALGINATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

|   |  |
|---|--|
| US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory | US TSCA Chemical Substance Inventory - Interim List of Active Substances |
|---|--|

## GELATINE IS FOUND ON THE FOLLOWING REGULATORY LISTS

|   |  |
|---|--|
| US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory | US TSCA Chemical Substance Inventory - Interim List of Active Substances |
|---|--|

Continued...

**Gel in ice sleeve(Hot cold gel pack)****Federal Regulations****Superfund Amendments and Reauthorization Act of 1986 (SARA)****SECTION 311/312 HAZARD CATEGORIES**

|  |    |
|--|----|
| Flammable (Gases, Aerosols, Liquids, or Solids)              | No |
| Gas under pressure   | No |
| Explosive  | No |
| Self-heating   | No |
| Pyrophoric (Liquid or Solid)                                 | No |
| Pyrophoric Gas   | No |
| Corrosive to metal   | No |
| Oxidizer (Liquid, Solid or Gas)                              | No |
| Organic Peroxide   | No |
| Self-reactive  | No |
| In contact with water emits flammable gas                    | No |
| Combustible Dust   | No |
| Carcinogenicity  | No |
| Acute toxicity (any route of exposure)                       | No |
| Reproductive toxicity  | No |
| Skin Corrosion or Irritation                                 | No |
| Respiratory or Skin Sensitization                            | No |
| Serious eye damage or eye irritation                         | No |
| Specific target organ toxicity (single or repeated exposure) | No |
| Aspiration Hazard  | No |
| Germ cell mutagenicity                                       | No |
| Simple Asphyxiant  | No |
| Hazards Not Otherwise Classified                             | No |

**US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)**

None Reported

**State Regulations****US. CALIFORNIA PROPOSITION 65**

None Reported

**SECTION 16 OTHER INFORMATION****Other information**

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

**Definitions and abbreviations**

PC—TWA: Permissible Concentration-Time Weighted Average  
 PC—STEL: Permissible Concentration-Short Term Exposure Limit  
 IARC: International Agency for Research on Cancer  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 STEL: Short Term Exposure Limit  
 TEEL: Temporary Emergency Exposure Limit  
 IDLH: Immediately Dangerous to Life or Health Concentrations  
 OSF: Odour Safety Factor  
 NOAEL :No Observed Adverse Effect Level  
 LOAEL: Lowest Observed Adverse Effect Level  
 TLV: Threshold Limit Value  
 LOD: Limit Of Detection  
 OTV: Odour Threshold Value  
 BCF: BioConcentration Factors  
 BEI: Biological Exposure Index