

## Section 1 Chemical Product and Company Identification

**Chemical name:** Yakthn® Peelable

**Additional identification:** Not available

**Product code:** Not available

**Identification of the product:** See section 3

### Relevant identified uses of the substance and uses advised against

**Identified uses:** Industry use.

**Uses advised against:** Not available

### Details of the supplier of the safety data sheet

**Name:** Yakthn (shanghai) Co., Ltd

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## Section 2 Hazards Identification

**Emergency Overview:** White or light color liquid with characteristic odor. When the temperature exceeds 100°C / 212°F, the product may splash. The product can burn after drying. Burning will form toxic gases, fumes and carbon oxides. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

### GHS Classification:

<b>Physical hazards</b>	Not classified	
<b>Health hazards</b>	Sensitisation, skin	Category 1
<b>Environmental hazards</b>	Hazardous to the aquatic environment - acute hazard	Category 3
	Hazardous to the aquatic environment - long-term hazard	Category 3

### Label elements

#### Pictogram:



**Signal Word(s):** Warning

**Hazard Statement:** May cause an allergic skin reaction.  
Harmful to aquatic life with long lasting effects

### Precautionary statement

**Prevention:** Avoid breathing dust/fume/gas/mist/vapours/spray.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** IF ON SKIN: Wash with plenty of water.  
If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

**Storage:** Not applicable

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From idea to value

According to GB/T 16483-2008 and GB/T 17519-2013

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**Disposal:**

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

**Physical and chemical hazards:**

When the temperature exceeds 100°C / 212°F, the product may splash. The product can burn after drying. Burning will form toxic gases, fumes and carbon oxides.

**Health Hazards:**

May cause an allergic skin reaction.

**Environmental hazards:**

Harmful to aquatic life with long lasting effects.

**Other hazards:**

No.

## Section 3 Composition Information on Ingredients

Substance/Mixture/Article:

Mixture

**Ingredient(s):**

Chemical Name	CAS No.	Concentration (%)
2,2,4-Trimethyl-1,3-pentanediolmono(2-methylpropanoate)	25265-77-4	>=0.95-<2.475%
POLYETHYLENE GLYCOL TRIMETHYLNONYL ETHER	127087-87-0	>=0.95-<2.475%
Poly(oxy-1,2-ethanediyl), $\alpha$ -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]- $\omega$ -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-	104810-47-1	>=0.2475<0.95%
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7	>=0.095-<0.2475%
Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	82919-37-7	>=0.095-<0.2475%
Dipropylene glycol monomethyl ether	34590-94-8	0-3%

Undisclosed ingredients include: 1) non-hazard ingredients, and 2) ingredients which are below the cut-off value required by Section 3.3 of GB / T 17519.

## Section 4 First Aid Measures

**In case of inhalation:**

Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical advice/attention.

**In case of skin contact:**

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation or rash occurs: Get medical advice/attention. Throw away items that cannot be decontaminated, including leather products such as shoes, belts and watch straps.

**In case of eyes contact:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If you have symptoms of eye discomfort, please consult a doctor, preferably an ophthalmologist. Appropriate first-aid eye flushing equipment should be provided in the work area.

**In case of ingestion:**

If swallowed, seek medical advice immediately and show this container or label.

<b>Most important symptoms and effects, both acute and delayed:</b>	Keep person warm and at rest. Do not induce vomiting unless you follow the doctor's instructions.
<b>To protect playing rescuer advice and the special hints to the doctor:</b>	May cause an allergic skin reaction.
<b>Indication of any immediate medical attention and special treatment needed:</b>	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Provide general supportive measures and treat symptomatically. In the event of shortness of breath, give oxygen. Keep the victim warm. Observe the patient. Symptoms may delay.

## Section 5 Fire-fighting Measures

<b>Extinguishing agent</b>	
<b>Suitable extinguishing media:</b>	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>Unsuitable extinguishing media:</b>	Avoid using water jet to extinguish fire, so as to avoid material splashes and fire spread.
<b>Special hazards:</b>	When the temperature exceeds 100°C /212°F, the product may splash. The product can burn after drying. Burning will form toxic gases, fumes and carbon oxides.
<b>Special firefighting methods and special protective actions for fire-fighters:</b>	Firefighters should wear self-contained breathing apparatus and wear full body fire service and extinguish fire in the windward direction. Remove the container from the fire to empty place as far as possible. Cool the container exposed to the fire with water and vent the vapors. Isolate the accident area, prohibit access to unrelated persons. Contain and handle fire water to prevent environmental pollution.

## Section 6 Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	Use suitable personal protective equipment. Provide good ventilation. Avoid generating and inhaling vapors. Avoid contact with skin and eyes. Evacuate unrelated persons. According to the liquid flow or vapor diffusion area of influence, designate warning area. Evacuate unrelated personnel from crosswind, upwind side. This material can cause a slippery state.
<b>Environmental precautions:</b>	Avoid release to the environment. In case of leakage into drainage system / aquatic environment, notify local authorities. Take measures to prevent further releases or spills while ensuring safety. Prevent spills from entering water, sewer, basement or limited space.
<b>Methods and materials for containment and cleaning up:</b>	Immediately absorb spills with inert materials (such as sand, soil). Keep the liquid and the absorbent material used for containment in appropriate containers for recycling and disposal.
<b>Precautions to prevent the occurrence of secondary hazards:</b>	Clean up spills immediately to prevent leaks again.

## Section 7 Handling and Storage

<b>Safe handling</b>	
<b>Local and general ventilation:</b>	Provide adequate ventilation.
<b>Safety instructions:</b>	Operators should follow the procedure and use the personal protective equipment

**Precautions:**

recommended by the SDS section 8.

Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling and prohibit eating in the workplace. Handling products should be carefully unloading, to avoid damage to packaging and containers.

**Storage**

**Suitable storage conditions:**

Store in correctly labelled containers. Keep container tightly closed, in a cool, well-ventilated place. Avoid freezing. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Separate from incompatible materials. Stir well before use.

Storage temperature: 1-49 °C

**Incompatible materials:**

Oxidizing agents, strong acid, and strong alkali.

**Safe packaging materials:**

Keep it in the original container.

## Section 8 Exposure Controls / Personal Protection

**Occupational exposure limits:**

According to GBZ2.1,

Dipropylene glycol monomethyl ether (CAS#34590-94-8): OELs mg/m<sup>3</sup> - PC-TWA=600mg/m<sup>3</sup>、PC-STEL=900mg/m<sup>3</sup> ;

**Biological limits:**

No standard has been established.

**Engineering controls:**

Ensure adequate ventilation. Make sure the workplace is equipped with a safe place to shower, clean eyes and body, and place for safe care.

**Personal protection equipment**

**Respiratory protection:**

When it is possible to exceed the exposure limit requirements or specified values, respiratory protection devices should be worn. If there is no applicable exposure limit or specified value, respiratory protection devices should be worn when adverse reactions such as respiratory irritation or discomfort occur, or when the risk assessment proves that there is a hazard. In most cases, respiratory protection is not required; however, when the substance is heated or sprayed, please use an approved air-purifying respirator.

**Hand protection:**

Wear the appropriate gloves.

Recommended material: chlorinated polyethylene. Polyethylene. Ethyl vinyl alcohol composite material ("EVAL"). Styrene/polybutadiene rubber. Suitable protective glove materials include butyl rubber. Natural rubber ("rubber"). Neoprene. Nitrile/polybutadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Viton (a fluoroelastomer). Avoid gloves made of the following substances: Polyvinyl alcohol ("PVA").

Note: When choosing a specific glove in the workplace for a particular application and period of use, all factors related to the workplace should be considered, but not limited to this, such as: other chemicals that may be handled, physical requirements (cut/puncture) Protection, flexible operation, heat protection), the body's possible reaction to the glove material, and the instructions and specifications provided by the glove supplier.

**Eye protection:**

Wear safety glasses (with side protection).

**Skin and body protection:**

Wear chemical resistant protective clothing suitable for this substance. Select specific tools according to the operating task, such as masks, boots, aprons, or a complete set of clothes.

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**Hygiene measures:** Avoid contact with eyes. Wash hands after handling. Do not eat and drink in the workplace.

## Section 9 Physical and Chemical Properties

<b>Physical state:</b>	Liquid.
<b>Color:</b>	White or light color
<b>Odor:</b>	Slight odor
<b>Odor threshold:</b>	No data available
<b>Molecular formula:</b>	Not applicable
<b>Molecular weight:</b>	Not applicable
<b>Melting point/freezing point (°C):</b>	No data available
<b>Boiling point, initial boiling point (°C):</b>	No data available
<b>Density:</b>	No data available
<b>Vapor pressure (20°C) (kPa):</b>	No data available
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Solubility in water:</b>	No data available
<b>Solubility in organic solvents:</b>	No data available
<b>Flash point (°C):</b>	No data available
<b>Auto-ignition temperature (°C):</b>	No data available
<b>Flammability limit - lower (%):</b>	No data available
<b>Flammability limit - upper (%):</b>	No data available
<b>Decomposition temperature (°C):</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Explosive properties</b>	No data available
<b>Explosive limit - lower (%):</b>	No data available
<b>Explosive limit - upper (%):</b>	No data available
<b>pH value:</b>	No data available
<b>Viscosity (mPa · S):</b>	No data available
<b>Relative vapor density (air=1):</b>	No data available
<b>Relative evaporation rate (n-butyl acetate=1):</b>	No data available

## Section 10 Stability and Reactivity

<b>Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid:</b>	Avoid contact with strong acids, strong bases and oxidants and other incompatible materials. Keep away from fire and heat.
<b>Incompatible materials:</b>	Strong acids, strong bases and oxidizing agents.
<b>Hazardous decomposition products:</b>	Burning will form toxic gases, fumes and carbon oxides.

## Section 11 Toxicological Information

### Acute toxicity

Dipropylene glycol monomethyl ether (CAS# 34590-94-8)

LD50(Oral, Rat): > 5 000 mg/kg bw

LD50(Dermal, Rabbit): 9 510 mg/kg bw ,male

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LC50(Inhalation, Rat):	No data available
<b>2,2,4-Trimethyl-1,3-pentanediolmono(2-methylpropanoate) (CAS#25265-77-4)</b>	
LD50(Oral, Rat):	6500 mg/kg bw, male
LD50(Dermal, Rabbit):	> 15200 mg/kg bw, male
LC50(Inhalation, Rat):	No data available
<b>POLYETHYLENE GLYCOL TRIMETHYLNONYL ETHER (CAS#127087-87-0)</b>	
LD50(Oral, Rat):	> 8 000 mg/kg
LD50(Dermal, Rabbit):	No data available
LC50(Inhalation, Rat):	No data available
<b>Poly(oxy-1,2-ethanediyl),<math>\alpha</math>-[3-[3-(2H-benzotriazol-2-yl)- 5-(1,1-dimethylethyl)- 4-hydroxyphenyl]-1-oxopropyl]-<math>\omega</math>-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]- (CAS# 104810-47-1)</b>	
LD50(Oral, Rat):	> 5 000 mg/kg
LD50(Dermal, Rabbit):	No data available
LC50(Inhalation, Rat):	No data available
<b>Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate(CAS#82919-37-7)</b>	
LD50(Oral, Rat):	3125 mg/kg
LD50(Dermal, Rabbit):	> 2,000 mg/kg
LC50(Inhalation, Rat):	No data available
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	May cause an allergic skin reaction.
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

## Section 12 Ecological Information

### Ecotoxicity

<b>Dipropylene glycol monomethyl ether (CAS# 34590-94-8)</b>	
LC50 (Fish, 96h)	> 1 000 mg/L
LC50 (Daphnia, 48h)	1 919 mg/L
EC50 (Algae, 72h):	> 969 mg/L
<b>2,2,4-Trimethyl-1,3-pentanediolmono(2-methylpropanoate) (CAS#25265-77-4)</b>	
LC50 (Fish, 96h)	33 mg/L
EC50 (Daphnia, 48h)	147.8 mg/L
EC50 (Algae, 72h):	> 57 mg/L
<b>POLYETHYLENE GLYCOL TRIMETHYLNONYL ETHER (CAS#127087-87-0)</b>	
LC50 (Fish, 96h)	Not available
EC50 (Daphnia, 48h)	14 mg/L
EC50 (Algae, 72h):	19.485 mg/L

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**Poly(oxy-1,2-ethanediyl), $\alpha$ -[3-[3-(2H-benzotriazol-2-yl)- 5-(1,1-dimethylethyl)- 4-hydroxyphenyl]-1-oxopropyl]- $\omega$ -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]- (CAS# 104810-47-1)**

**LC50 (Fish, 96h)** 1-10 mg/L

**EC50 (Daphnia, 48h)** 4 mg/l

**EC50 (Algae, 72h):** > 9 mg/l

**Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate(CAS#82919-37-7)**

**LC50 (Fish, 96h)** 0.1-1 mg/L

**EC50 (Daphnia, 48h)** Not available

**EC50 (Algae, 72h):** Not available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

## Section 13 Disposal Considerations

**Residual waste** Recycling as much as possible. If recycling is not possible, use incineration methods for disposal. Do not dispose of this product by means of discharge to the sewer.

**Contaminated packaging** Empty containers or pads may retain some product residue, so beware of label warnings even when empty containers. These materials and their containers must be disposed of in a safe manner. Empty containers should be returned to the manufacturer or sent to a national / local approved waste disposal site.

**Local disposal regulations** Waste disposal should refer to the relevant national and local laws and regulations, the waste chemicals for recycling, or packed in sealed containers, to a special waste disposal site.

## Section 14 Transport Information

**UN Number:** Not regulated

**UN Proper shipping name:** Not regulated

**Transport hazard Class:** Not regulated

**Packaging group:** Not regulated

**Marine pollutant (yes/no):** No

**Transport special precautions:**

— Grounding chains should be equipped with tank or car during transportation, hole plate can be set in the tank to prevent static electricity generated by shaking;

— Exhaust pipe of the vehicle which transports this product shall be equipped with fireproofing equipment, Do not handle with the machinery or tools which may produce spark easily;

— Do not package or transport with oxidant, food chemicals or others;

— Prevent from sunlight exposure, rain and heat during transportation, in summer, best to transport in the morning or evening;

— Keep away from fire, heat source and high temperature when stops on the way;

— Follow the route as prescribed during highway transportation, do not stay in residential areas and densely populated area;

— Prohibit humping in railway transportation;

— Transport vehicles should be equipped with corresponding fire equipment and spill contingency processing equipment.

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## 15. Regulatory Information

The following laws, regulations, rules and standards, provide corresponding provisions of the management of chemicals:

Name	Relevant Inventories	Listed Or Not
Measures On Safety Management of Hazardous Chemicals	Inventory Of Hazardous Chemicals	Not listed
	The First Batch of Key Regulatory List of Hazardous Chemicals	Not listed
Measures On New Substance Environmental Management	The Inventory Of Existing Chemical Substance In China	Listed
Provisions On Environmental Management Of First Import And Export Of Toxic Chemicals	China Strictly Restricted List of Import and Export of Toxic Chemicals	Not listed

## Section 16 Other Information

### Indication of changes:

Version 1.0 Amended by GB/T16483 and GB/T 17519.

### Abbreviations:

CAS: Chemical Abstracts Service

LC50: Lethal Concentration 50

EC50: Concentration for 50% of maximal effect

LD50: Lethal dose 50%

PC-TWA: time-weighted average allowable concentration, average allowable concentration in 8h working day, 40h work week.

PC-STEL: Short-Term Exposure Tolerance, the concentration allowed to be exposed in short-term (15 minutes).

IARC: International Agency for Research on Cancer

ACGIH: US Government Conference of Industrial Hygienists

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Dangerous Goods

EINECS: European Inventory of Existing commercial Chemical Substances

IATA: International Air Transport Association

ICAO-TI: International Civil Aviation Organization The International Civil Aviation Covenant

### Disclaimer:

This Material Safety Data Sheet is offered for your information regarding hazard of product, caution against handling and regulatory information. Please observe following items and ensure health, safety and environment conservation.

Correspond to rules and regulations in the country/the region used.

The information in this SDS should be provided to all user /employer including your related companies that handle this product.

The information in this SDS is based on the present state of our knowledge at the date of issue. However, we do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. This MSDS may be amended in the newly acquired knowledge.

The data given here do not signify any warranty with regard to the product's properties.