

## SDS Report

No. SHACPCH1422759805

Date: Jan. 20, 2015

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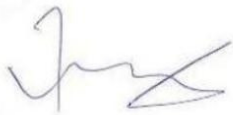
Yiwu bodan import and export co., LTD  
No.1230,Datong Road ,Niansanli Industry zone, Yiwu, Zhejiang,China

SGS Ref. No. : SHCPCH141105423-3  
Sample Name : UV GEL(COLOR GEL)  
End Uses : UV model USES material  
Composition/Ingredient of sample (as per client submission) : See *Section 3 Composition/information on ingredients* on the SDS report  
Job Receiving Date : Nov 28, 2014  
Last Information Date : Dec 05, 2014  
SDS Preparation Period : Nov 28 - Dec 11, 2014

Service Requested : Preparation of Safety Data Sheet (SDS) for the sample with submitted information.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Directives 67/548/EEC, 1999/45/EC, Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 453/2010, and is provided per attached.

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Wei WANG, Terry  
Approved Signatory



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# Safety Data Sheet

## Regulation(EC) No.1907/2006, 1272/2008

Printing date 24.12.2014

Revision: 05.12.2014

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** UV GEL(COLOR GEL)
  
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** UV model USES material
  
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Yiwu bodan import and export co., LTD  
No.1230,Datong Road ,Niansanli Industry zone, Yiwu, Zhejiang,China  
Tel: 0086-579-85161566  
Email: 2260311618@qq.com
- **Only Representative/ other EU contact point:** Not available
- **Further information obtainable from:** Yiwu bodan import and export co., LTD
  
- **1.4 Emergency telephone number:**  
Tian pei Qiu  
Tel: 13566709995
  
- **1.5 Reference Number:** SHCPCH141105423-3; SHACPCH1422759805

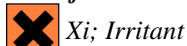
### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

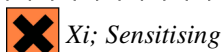


- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2 H319 Causes serious eye irritation.
- Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



- R36/38: Irritating to eyes and skin.



- R43: May cause sensitisation by skin contact.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of Directive 67/548/EEC, 1999/45/EC and Regulation 1272/2008/EC.

- **Classification system:**

The classification is according to the latest edition of the Directive 67/548/EEC, 1999/45/EC and Regulation (EC) No. 1272/2008, and extended by company and literature data.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS07

- **Signal word** Warning

- **Hazard-determining components of labelling:**

2,2-bis(acryloyloxyethyl)butyl acrylate  
2-hydroxyethyl methacrylate

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- **Hazard statements**

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.

- **Precautionary statements**

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 Specific treatment (see on this label).
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:**

For the wording of the listed risk phrases refer to section 16.  
Mixture of the substances listed below with nonhazardous additions.

- **Composition:**

CAS: 73324-00-2	2-Propenoic acid, 2-hydroxyethyl ester, polymer with 1,1'-methylenebis(4-isocyanatocyclohexane) and alpha, alpha', alpha''-1,2,3-propanetriyltris(omega-hydroxypoly(oxy(methyl-1,2-ethanediyl))) ☒ Xi R36 ⚠ Eye Irrit. 2, H319	45,0%
CAS: 15625-89-5 EINECS: 239-701-3 Index number: 607-111-00-9	2,2-bis(acryloyloxymethyl)butyl acrylate ☒ Xi R36/38; ☒ Xi R43 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	24,8%
CAS: 868-77-9 EINECS: 212-782-2 Index number: 607-124-00-X	2-hydroxyethyl methacrylate ☒ Xi R36/38; ☒ Xi R43 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	12,0%
CAS: 947-19-3 EINECS: 213-426-9	Hydroxycyclohexyl phenyl ketone	8,0%
CAS: 12001-26-2	mica substance with a Community workplace exposure limit	
CAS: 5858-81-1 EINECS: 227-497-9	Disodium 3-hydroxy-4-[(4-methyl-2-sulphonatophenyl)azo]-2-naphthoate	
CAS: 6417-83-0 EINECS: 229-142-3	Calcium 3-hydroxy-4-[(1-sulphonato-2-naphthyl)azo]-2-naphthoate	
CAS: 112945-52-5	Silica, amorphous, fumed, cryst.-free	1,0%
CAS: 25038-59-9	polyethylene terephthalate	1,0%
CAS: 1333-86-4 EINECS: 215-609-9	carbon black substance with a Community workplace exposure limit	
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide	

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Trade name: UV GEL(COLOR GEL)

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CAS: 12240-15-2	C.I. Pigment Blue 27	
CAS: 68412-54-4	Nonylphenol, branched, ethoxylated  Xn R22;  Xi R41;  N R51/53  Eye Dam. 1, H318;  Aquatic Chronic 2, H411;  Acute Tox. 4, H302	0,2%
CAS: 12225-21-7 EINECS: 235-428-9	Aluminium, 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[(4-sulfophenyl)azo]-1H-pyrazole-3-carboxylic acid complex	0,2%

**Remark :**

2-Propenoic acid, 2-hydroxyethyl ester, polymer with 1,1'-methylenebis(4-isocyanatocyclohexane) and alpha,alpha',alpha''-1,2,3-propanetriyltris(omega-hydroxypoly(oxy(methyl-1,2-ethanediyl))) (CAS NO.73324-00-2)

Synonym: Urethane Acrylate Oligomer

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth with water.

If symptoms persist consult doctor.

Never give anything by mouth to an unconscious person.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear fully protective suit.

Mouth respiratory protective device.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes.

Avoid contact with skin.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Keep receptacles tightly sealed.  
Keep away from heat and direct sunlight.  
Avoid contact with eyes and skin.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

#### · **Ingredients with limit values that require monitoring at the workplace:**

<b>15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate (24,8%)</b>	
MAK (Germany)	vgl.Abschn.IV
<b>868-77-9 2-hydroxyethyl methacrylate (12%)</b>	
MAK (Germany)	vgl.Abschn.IIb
<b>12001-26-2 mica (2,5%)</b>	
WEL (Great Britain)	Long-term value: 10* 0,8** mg/m <sup>3</sup> *total inhalable **respirable
<b>1333-86-4 carbon black (0,5%)</b>	
WEL (Great Britain)	Short-term value: 7 mg/m <sup>3</sup> Long-term value: 3,5 mg/m <sup>3</sup>
VME (France)	Long-term value: 3,5 mg/m <sup>3</sup>

· **DNELs:** Not applicable.· **PNECs:** Not applicable.· **Additional information:** The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

· **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**

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- **Appropriate engineering controls**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.  
See Section 7 for information about design of technical facilities.

- **Personal protective equipment**

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:**

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. As the product 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.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Viscous liquid

Colour: Red

- **Odour:** Odourless

- **Odour threshold:** Data not available.

- **pH-value:** Data not available.

- **Change in condition:**

Melting point/Melting range: Data not available.

- **Freezing point:** Data not available.

- **Boiling point/Boiling range:** Data not available.

- **Flash point:** >150 ° F

- **Flammability (solid, gaseous):** Not applicable.

- **Auto-ignition temperature:** Data not available.

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· <b>Decomposition temperature:</b>	Data not available.
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits</b>	
Lower:	Data not available.
Upper:	Data not available.
· <b>Oxidizing properties:</b>	Data not available.
· <b>Vapour pressure:</b>	Data not available.
· <b>Density:</b>	Data not available.
· <b>Relative density:</b>	Data not available.
· <b>Vapour density:</b>	Data not available.
· <b>Evaporation rate:</b>	Data not available.
· <b>Solubility in / Miscibility with water:</b>	Data not available.
· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
· <b>Viscosity:</b>	
Dynamic:	Data not available.
Kinematic:	Data not available.
· <b>9.2 Other information</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:**

**15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate**

Oral	LD50	5710 mg/kg (rat)
Dermal	LD50	5710 mg/kg (rabbit)

**868-77-9 2-hydroxyethyl methacrylate**

Oral	LD50	5050 mg/kg (rat)
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**25038-59-9 polyethylene terephthalate**

Oral	LD50	>5000 mg/kg (rat)
------	------	-------------------

**5858-81-1 Disodium 3-hydroxy-4-[(4-methyl-2-sulphonatophenyl)azo]-2-naphthoate**

Oral	LD50	>10800 mg/kg (rat)
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**1333-86-4 carbon black**

Oral	LD50	>8000 mg/kg (rat)
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Dermal	LD50	>3000 mg/kg (rabbit)
<b>6417-83-0 Calcium 3-hydroxy-4-[(1-sulphonato-2-naphthyl)azo]-2-naphthoate</b>		
Oral	LD50	>5000 mg/kg (rat)
<b>13463-67-7 titanium dioxide</b>		
Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

- **Primary irritant effect**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitisation:**  
Sensitization possible.  
Sensitisation possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method based on the EU Directives 67/584/EEC, 1999/45/EC and Regulation 1272/2008/EC:  
Irritant
- **Toxicokinetics, metabolism and distribution:** Data not available.
- **Acute effects (acute toxicity, irritation and corrosivity):** Data not available.
- **Repeated dose toxicity:** Data not available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** Data not available.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

EU

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**Safety Data Sheet**  
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**SECTION 14: Transport information**

- |  |                 |
|--|-----------------|
| · 14.1 UN-Number<br>· ADR, IMDG, IATA  | Not applicable. |
| · 14.2 UN proper shipping name<br>· ADR, IMDG, IATA                            | Not applicable. |
| · 14.3 Transport hazard class(es)<br>· ADR, IMDG, IATA<br>· Class              | Not applicable. |
| · 14.4 Packing group<br>· ADR, IMDG, IATA                                      | Not applicable. |
| · 14.5 Environmental hazards<br>· Marine pollutant:                            | No              |
| · 14.6 Special precautions for user  | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation":   | -               |

**SECTION 15: Regulatory information**

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

- MAK(German Maximum Workplace Concentration)

1333-86-4	carbon black	3B
13463-67-7	titanium dioxide	3A

- National regulations:  
· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.  
· Other regulations, limitations and prohibitive regulations

- SVHC Candidate List of REACH Regulation Annex XIV Authorisation (17/12/2014)

None of the ingredients is listed.

- REACH Regulation Annex XVII Restriction (8/5/2014)

None of the ingredients is listed.

- REACH Regulation Annex XIV Authorisation List (14/8/2014)

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

- Relevant phrases

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

R36 Irritating to eyes.  
R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.

\*\*\*\*\*  
The contents and format of this SDS are in accordance with REGULATION (EC) No 1272/2008, REGULATION (EC) No 1907/2006, Regulation (EU) No 453/2010 and EU Commission Directive 1999/45/EC, 67/548/EEC.

DISCLAIMER OF LIABILITY :

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The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

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EU