

## SDS Report

No. SHAMLC1510967801

Date: Jun. 12, 2015

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Shanghai Gokai Industry Co., Ltd.  
Room 617, Building 1, Lane 111, Luxiang Road, Baoshan District, Shanghai, P.R.China

SGS Ref. No. : SHCCM150601738  
Sample Name : PVC SHEET  
End Uses : Building material  
Composition/Ingredient of sample (as per client submission) : See *Section 3 Composition/information on ingredients* on the SDS report  
Job Receiving Date : Jun 09, 2015  
Last Information Date : Jun 09, 2015  
SDS Preparation Period : Jun 09 - 12, 2015

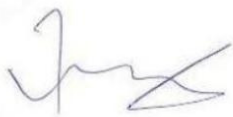
Service Requested : Preparation of Safety Data Sheet (SDS) for the sample with submitted information.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2015/830, and is provided per attached.

### Remark:

This sample is likely to be classified as article with substances not intended to be released and is out of scope of a SDS as set out in Regulation (EC) No 1907/2006. This SDS is generated for client's reference only.

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 12.06.2015

Revision: 10.06.2015

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

- **1.1 Product identifier**
- **Trade name:** PVC SHEET
  
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Building material
  
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Shanghai Gokai Industry Co.,Ltd.  
Room 617, Building 1, Lane 111, Luxiang Road, Baoshan District, Shanghai, P.R.China  
Tel: +86 021-56153718  
Email: admin@gokai.com.cn
- **Only Representative/ other EU contact point:** Not available
- **Further information obtainable from:** Shanghai Gokai Industry Co.,Ltd.
  
- **1.4 Emergency telephone number:**  
Jason  
Tel: +86 18918606548
  
- **1.5 Reference Number:** SHCCM150601738; SHAMLC1510967801
  
- **1.6 Remark:**  
This sample is likely to be classified as article with substances not intended to be released and is out of scope of a SDS as set out in Regulation (EC) No 1907/2006. This SDS is generated for client's reference only.

### SECTION 2: Hazards identification

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



GHS08 health hazard

Repr. 1B H360Df May damage the unborn child. Suspected of damaging fertility.

STOT RE 2 H373 May cause damage to the nervous system and the immune system through prolonged or repeated exposure.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of Regulation 1272/2008/EC.
- **Classification system:**  
The classification is according to the EU Regulation 1272/2008/EC, 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



GHS08

- **Signal word** *Danger*
  
- **Hazard-determining components of labelling:**  
dibutyl phthalate  
2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate

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- **Hazard statements**

H317 May cause an allergic skin reaction.

H360Df May damage the unborn child. Suspected of damaging fertility.

H373 May cause damage to the nervous system and the immune system through prolonged or repeated exposure.

- **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.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see on this label).

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**

SVHC Candidate List

- **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:**

Mixture of the substances listed below with nonhazardous additions.

For the wording of the listed hazard statements refer to Section 16.

- **Composition:**

CAS: 9002-86-2	polyvinyl chloride substance with a Community workplace exposure limit	75,0-80,0%
CAS: 471-34-1 EINECS: 207-439-9	calcium carbonate substance with a Community workplace exposure limit	7,0-15,0%
CAS: 84-74-2 EINECS: 201-557-4 Index number: 607-318-00-4	dibutyl phthalate ⚠ Repr. 1B, H360Df; ⚠ Aquatic Acute 1, H400	6,0-8,0%
CAS: 358731-29-0	Dipropyl phthalate-3,4,5,6-d4	3,0-6,0%
CAS: 57583-35-4 EINECS: 260-829-0 Index number: 050-028-00-2	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate ⚠ Repr. 2, H361d; STOT RE 1, H372; ⚠ Acute Tox. 4, H302; Skin Sens. 1A, H317	1,5-2,0%
CAS: 12772-47-3 EINECS: 235-816-8	9-Octadecenoic acid (Z)-, ester with 2,2-bis(hydroxymethyl)-1,3-propanediol	1,0-1,5%

- **SVHC**

84-74-2 dibutyl phthalate

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

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

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- 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.  
Seek medical treatment.  
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:** *Use fire extinguishing methods suitable to surrounding conditions.*
- **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.  
Avoid formation of dust.  
Keep away from ignition sources.  
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 product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.*
- **6.3 Methods and material for containment and cleaning up:**  
*Pick up mechanically.  
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**  
*Open and handle receptacle with care.  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.*

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- Avoid contact with eyes and skin.  
For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
  - **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 flammable substances.  
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:**

##### **9002-86-2 polyvinyl chloride**

AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig**eintembar; AGS, DFG
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust

##### **471-34-1 calcium carbonate**

VME (France)	Long-term value: 10 mg/m <sup>3</sup>
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##### **84-74-2 dibutyl phthalate**

AGW (Germany)	Long-term value: 0,58 mg/m <sup>3</sup> , 0,05 ppm 2(I);DFG, Y, 11
WEL (Great Britain)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup>
VME (France)	Long-term value: 5 mg/m <sup>3</sup> R1B

- **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**
- **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.  
Store protective clothing separately.  
See Section 7 for information about design of technical facilities.
- **Personal protective equipment**
- **Respiratory protection:** Suitable respiratory protective device recommended.

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· **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:**

<b>Form:</b>	Solid
<b>Colour:</b>	Clear
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Data not available.

· **pH-value:** Data not available.

· **Change in condition:**

<b>Melting point/Melting range:</b>	Data not available.
<b>Freezing point:</b>	Data not available.
<b>Boiling point/Boiling range:</b>	Data not available.

· **Flash point:** Data not available.

· **Flammability (solid, gaseous):** Data not available.

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

· **Decomposition temperature:** Data not available.

· **Self-igniting:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits**

<b>Lower:</b>	Data not available.
<b>Upper:</b>	Data not available.

· **Oxidizing properties:** Data not available.

· **Vapour pressure:** Data not available.

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- |   |  |
|---|--|
| · <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>                               |  |
| <b>Dynamic:</b>                                   | Data not available.                        |
| <b>Kinematic:</b>                                 | 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**

· <b>LD/LC50 values relevant for classification:</b>		
<b>84-74-2 dibutyl phthalate</b>		
Oral	LD50	8000 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)
<b>471-34-1 calcium carbonate</b>		
Oral	LD50	6450 mg/kg (rat)

Oral	LD50	8000 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)

Oral	LD50	6450 mg/kg (rat)
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- **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.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
May damage the unborn child. Suspected of damaging fertility.
- **STOT-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
May cause damage to the nervous system and the immune system through prolonged or repeated exposure.
- **Aspiration hazard**  
Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.

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- **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 2 (German Regulation) (Self-assessment): hazardous for water.  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

### 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.

### SECTION 14: Transport information

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

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **MAK(German Maximum Workplace Concentration)**  
None of the ingredients is listed.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

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EU



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- **National regulations:**
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Other regulations, limitations and prohibitive regulations**

· <b>SVHC Candidate List of REACH Regulation Annex XIV Authorisation (17/12/2014)</b>	
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84-74-2	dibutyl phthalate
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· <b>REACH Regulation Annex XVII Restriction (22/4/2015 )</b> <b>See Section 16 for information about restriction of use.</b>	
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84-74-2	dibutyl phthalate
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· <b>REACH Regulation Annex XIV Authorisation List (14/8/2014)</b>	
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None of the ingredients is listed.	
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- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

- **Recommended restriction of use**

REACH Annex XVII Restricted - 30

30. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as toxic to reproduction category 1A or 1B (Table 3.1) or toxic to reproduction category 1 or 2 (Table 3.2) and listed as follows:

- Reproductive toxicant category 1A adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 1 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 5
  - Reproductive toxicant category 1B adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 2 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 6
- dibutyl phthalate (CAS No. 84-74-2)

Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30:

1. Shall not be placed on the market, or used,

- as substances,
- as constituents of other substances, or,
- in mixtures,

for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:

- either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,
- the relevant concentration specified in Directive 1999/45/EC.

Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: 'Restricted to professional users'.

2. By way of derogation, paragraph 1 shall not apply to:

- (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;
- (b) cosmetic products as defined by Directive 76/768/EEC;
- (c) the following fuels and oil products:
  - motor fuels which are covered by Directive 98/70/EC,
  - mineral oil products intended for use as fuel in mobile or fixed combustion plants,
  - fuels sold in closed systems (e.g. liquid gas bottles);
- (d) artists' paints covered by Directive 1999/45/EC;

M14 (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.

- **Relevant hazard statements**

H302 Harmful if swallowed.

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*H317 May cause an allergic skin reaction.**H360Df May damage the unborn child. Suspected of damaging fertility.**H361d Suspected of damaging the unborn child.**H372 Causes damage to the nervous system and the immune system through prolonged or repeated exposure.**H400 Very toxic to aquatic life.*

\*\*\*\*\*

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY :**

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.

**Remark**

This sample is likely to be classified as article with substances not intended to be released and is out of scope of a SDS as set out in Regulation (EC) No 1907/2006. This SDS is generated for client's reference only.

**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

Acute Tox. 4: Acute toxicity, Hazard Category 4

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

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

Repr. 1B: Reproductive toxicity, Hazard Category 1B

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

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End of document