1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: Glue Stick

SUPPLIER: NINGBO WAN BANG STATIONERY CO., LTD.
XiaXiang Village, South-west Street, YuYao ZheJiang Province, China

TELEPHONE: 86 574 62517718
FAX: 86 574 62517720

2. COMPOSITION/ INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CONCENTRATION</th>
<th>SYMBOL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyvinyl Alcohol</td>
<td>20%</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>57%</td>
<td></td>
</tr>
<tr>
<td>Glycerine</td>
<td>10%</td>
<td></td>
</tr>
<tr>
<td>Stearic Acid</td>
<td>7%</td>
<td></td>
</tr>
<tr>
<td>Propanediol</td>
<td>5%</td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>1%</td>
<td></td>
</tr>
<tr>
<td>Phenolphthalein indicator</td>
<td>minim, can be ignored</td>
<td></td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Non-toxic

4. FIRST AID MEASURES

GENERAL: Summary of first aid is as follows:

INHALATION: call physician immediately

INGESTION: Immediately contact medical personnel and supervisor.

SKIN: Wash affected area with soap and water.

EYES: Immediately flush eyes with large amounts of water. Call a physician.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:
Carbon dioxide, Dry chemical, Foam

UNSUITABLE EXTINGUISHING MEDIA:
N/A

SPECIAL ESPOUSURE HAZARDS IN FIRE:
No unusual fire or explosion hazards are anticipated.

REQUIRED SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:
Not necessary

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
Bulk releases not anticipated under normal conditions

RESPIRATORY PROTECTION FOR BULK RELEASES:
N/A

CHEMICAL RESISTANT GLOVES FOR BULK RELEASES:
Yes

EYE PROTECTION REQUIRED FOR BULK RELEASES:
Yes
ENVIRONMENTAL PRECAUTIONS:
Since regulations vary, consult applicable regulations or authorities before disposal.

METHODS FOR CLEANING:
Wash with water

7. HANDLING AND STORAGE

HANDLING:
No special precautions if it kept in container provided.

STORAGE:
Store in room temperature 28°C

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

TAKE MEASURES TO PREVENT:
Do not ingest

EXPOSURE CONTROL LIMITS, AND SOURCE:
None required in normal use

RESPIRATORY PROTECTION:
None required in normal use

HAND PROTECTION:
None required in normal use

SKIN PROTECTION:
Avoid prolonged or repeated skin contact

EYE PROTECTION:
Avoid eye contact

9. PHYSICAL AND CHEMICAL PROPERTIES

APPERANCE: Waxy Solid, purple

ODOUR: None

PH: 10.50-12.50

SOLUBILITY (water and grease): soluble in water

BOILING POINT/BOILING POINT RANGE: N/A

MELTING POINT/MELTING POINT RANGE: 230°C

FLASHPOINT(degree C): N/A

FLAMMABILITY(gas/solid): not flammable

AUTOFLAMMABILITY: not autoflammable

EXPLOSIVE PROPERTIES: not explosive

OXIDIZING PROPERTIES: no oxidation

VAPOUR PRESSURE(mmHg): CA.6.8000mmHg ASTM

VAPOUR DENSITY (AIR=1): N/D

EVAPORATION RATE (Butyl Acetate=1): N/D

SPECIFIC GRAVITY (H2O=1): 1.000

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: no

MATERIALS TO AVOID: no

HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon Monoxide and Carbo Dioxide, Hydrocarbons
### 11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Skin:</th>
<th>non-toxic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes:</td>
<td>non-toxic</td>
</tr>
<tr>
<td>Ingestion:</td>
<td>non-toxic</td>
</tr>
<tr>
<td>Inhalation:</td>
<td>non-toxic</td>
</tr>
<tr>
<td>Effect of over exposure:</td>
<td>no</td>
</tr>
<tr>
<td>Medical conditions generally aggravated by exposure:</td>
<td>no</td>
</tr>
</tbody>
</table>

### 12. ECOTOXICOLOGICAL INFORMATION

| POSSIBLE EFFECTS: | N/A |
| BEHAVIOUR:        | N/A |

### 13. DISPOSAL CONSIDERATIONS

Likely residues / waste products (if any)

SAFE HANDLING OF ANY RESIDUES/WASTE PRODUCT:

Diapose of residue in accordance with applicable government regulations.

### 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>LABEL FOR CONVEYANCE:</th>
<th>N/D</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROAD TRANSPORT:</td>
<td>suitable</td>
</tr>
<tr>
<td>UN No. ROAD:</td>
<td>N/D</td>
</tr>
<tr>
<td>ADR CLASS No.:</td>
<td>N/D</td>
</tr>
<tr>
<td>ADR CLASS :</td>
<td>N/D</td>
</tr>
<tr>
<td>HAZARD No. (ADR):</td>
<td>N/D</td>
</tr>
<tr>
<td>PROPER SHIPPING NAME:</td>
<td>N/D</td>
</tr>
<tr>
<td>RAIL TRANSPORT:</td>
<td>suitable</td>
</tr>
<tr>
<td>SEA TRANSPORT:</td>
<td>suitable</td>
</tr>
<tr>
<td>UN No. SEA:</td>
<td>N/D</td>
</tr>
<tr>
<td>IMDG CLASS:</td>
<td>N/D</td>
</tr>
<tr>
<td>MARINE POLLUTANT:</td>
<td>N/D</td>
</tr>
<tr>
<td>AIR TRANSPORT:</td>
<td>suitable</td>
</tr>
<tr>
<td>UN No. AIR:</td>
<td>N/D</td>
</tr>
<tr>
<td>ICAO CLASS:</td>
<td>N/D</td>
</tr>
<tr>
<td>AIR PACK GR.:</td>
<td>N/D</td>
</tr>
</tbody>
</table>

### 15. REGULATORY INFORMATION

The product does not contain chemicals known to deplete the ozone layers.

### 16. OTHER INFORMATION

The information given in this sheet is a description of the safety requirements related to our product. It does not guarantee the properties of this products. The user is responsible for taking the necessary measures to meet the requirements of laws and regulations in force.