

# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME:** Bandage glue (Hot melt glue)

**OTHER/GENERIC NAMES:** Mixture

**PRODUCT USE:** Industrial.

**MANUFACTURER:**

Shanghai Baoli Adhesive Glue Co.,Ltd.

TEL: 86 21-67600606

**FOR MORE INFORMATION CALL:**

(Monday-Friday, 9:00am-4:30pm) 86 20 22159726

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NUMBER	WEIGHT % OSHA PEL
ETHYL ACETATE	141-78-6	15%
Isopropanol	67-63-0	15%
N-heptane	142-82-5	10%
Toluene	180-88-3	5%

Trace impurities and additional material names not listed above may also appear in Section 15 towards the end of the

MSDS. These materials may be listed for local "Right-to-Know" compliance and for other reasons.

**OSHA Hazard Communication Standard:** This product is considered hazardous under the OSHA Hazard Communication Standard.

## 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Clear liquid. Fruity odor. Causes skin and eye irritation. Harmful if inhaled. Do not get in eyes, on skin, or on clothing. Flammable Liquid.

**POTENTIAL HEALTH HAZARDS:**

**SKIN:** Causes mild skin irritation. Isopropanol does not seem to be significantly absorbed through the skin, but the limited absorption may add to the effect of inhalation. Repeated exposures to the skin may result in dermatitis resulting from a defatting action.

**EYES:** Causes eye irritation.

**INHALATION:** Causes irritation of the mouth, nose, and throat. Excessive inhalation causes headache, dizziness, nausea and incoordination. Can cause unconsciousness if Inhaled. Isopropanol vapors at 800 ppm are irritating to humans within 3-5 minutes. Contact with liquid produces intense stinging and burning sensations. With prolonged contact to the liquid, temporary damage to the Very short exposure (3-5 minutes)

to the eyes of vapors of Toluene at a concentration of 300 ppm causes slight irritation.

membranous tissue covering the cornea has been reported, but healing has been prompt.

INGESTION: Low order of toxicity.

DELAYED EFFECTS: Repeated and/or prolonged contact will cause defatting dermatitis.

## 4. FIRST AID MEASURES

**SKIN:** Remove contaminated clothing and launder before reuse. Flush skin with large amounts of water. If irritation persists, get medical attention.

**EYES:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

**INHALATION:** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably

mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

**INGESTION:** If signs of irritation or toxicity occur seek medical attention.

**ADVICE TO PHYSICIAN:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

**FLASH POINT:** -5 C

**FLASH POINT METHOD:** Setflash closed cup

**AUTOIGNITION TEMPERATURE:** 485 C

**UPPER FLAME LIMIT (volume % in air):** 9

**LOWER FLAME LIMIT (volume % in air):** 2.2

**FLAME PROPAGATION RATE (solids):** Not applicable.

**OSHA FLAMMABILITY CLASS:** Flammable.

### EXTINGUISHING MEDIA:

Carbon dioxide, dry chemicals, foam. Water may be ineffective.

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors may be ignited by sparks, flames or other sources of ignition. Vapors may travel to a source of ignition and flash back.

### SPECIAL FIRE-FIGHTING PRECAUTIONS/INSTRUCTIONS:

Wear approved positive-pressure self-contained breathing apparatus and protective clothing.

Use water spray to

keep fire-exposed containers cool.

## 6. ACCIDENTAL RELEASE MEASURES

**IN CASE OF SPILL OR OTHER RELEASE:** (See Section 8 for recommended personal protective equipment.)

For small spills: Absorb on paper towels and allow to evaporate in a safe place (fume hood).

For large spills: Remove sources of ignition. Dike area to contain spill. Absorb spill with inert material and place in containers for later disposal.

**Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.**

## 7. HANDLING AND STORAGE

**NORMAL HANDLING:** (See section 8 for recommended personal protective equipment.)  
Avoid contact with skin, eyes and clothing. Bond and ground containers during transfer operations. Use only nonsparking tools and equipment.

**STORAGE RECOMMENDATIONS:**

Store in a cool, dry, well-ventilated area away from sources of ignition. Keep containers tightly closed. If stored inside, store in a standard flammable liquids storage room or cabinet.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use local exhaust.

**PERSONAL PROTECTIVE EQUIPMENT**

**SKIN PROTECTION:** Wear rubber gloves and protective clothing.

**EYE PROTECTION:** Wear chemical safety goggles.

**RESPIRATORY PROTECTION:** Wear a NIOSH approved respirator appropriate for airborne exposure at the point of use.

**ADDITIONAL RECOMMENDATIONS:**

Provide eyewash stations and quick-drench shower facilities in or near areas of use or handling.

**OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:**

None.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear colorless liquid

**PHYSICAL STATE:** Liquid

**MOLECULAR WEIGHT:** 88.11

**CHEMICAL FORMULA:** mixture

**ODOR:** Fruity odor.

**SPECIFIC GRAVITY (water=1.0):** 0.87 g/cm<sup>3</sup>

**SOLUBILITY IN WATER (weight %):** none

**pH:** Neutral

**BOILING POINT:** 60C

**MELTING POINT:** -83.6 C

**VAPOR PRESSURE:** 100 mm Hg @ 27 C

**VAPOR DENSITY (air=1.0):** 3.04

**EVAPORATION RATE:** 6.2 **COMPARED TO:** n-butyl acetate

**% VOLATILES:** Data not available.

**FLASH POINT:** -5 C

(Flash point method and additional flammability data are found in Section 5.)

## 10. STABILITY AND REACTIVITY

**NORMALLY STABLE? (CONDITIONS TO AVOID):**

Normally stable. Avoid contact with heat, sparks, open flame, and static discharge.

**INCOMPATIBILITIES:**

Nitrates. Strong oxidizing agents. Strong inorganic acids. Alkalies.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Emits acrid smoke and fumes under fire conditions.

**HAZARDOUS POLYMERIZATION:**

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

Eye effects-Human 300 ppm

Skin-Rabbit, adult 435 mg Mild irritation effects

Skin-Rabbit, adult 500 Moderate irritation effects

Eye effects-Rabbit, adult 870 µg Mild irritation effects

Effects of Overexposure:

Acute: See section 3

Chronic: Mutation data cited. Not listed as causing cancer by IARC, NTP or OSHA.

Conditions Aggravated by Overexposure: Respiratory, kidney, liver, skin, and blood disorders.

Target Organs: Eyes, skin, respiratory passages and mucous surfaces.

Primary Route(s) of Entry: Ingestion, inhalation.

**DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:**

Data not available.

**OTHER DATA:**

Data not available.

## 12. ECOLOGICAL INFORMATION

Data not available.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

**OTHER DISPOSAL CONSIDERATIONS:**

Disposal should be made in accordance with federal, state and local regulations.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the products such as mixing

with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

## 14. TRANSPORT INFORMATION

**US DOT HAZARD CLASS:** 3

**PROPER SHIPPING NAME:** Adhesive glue, UN 1133

For additional information on shipping regulations affecting this material, contact the

information number found in Section 1.

## **15. REGULATORY INFORMATION**

### **TOXIC SUBSTANCES CONTROL ACT (TSCA)**

**TSCA INVENTORY STATUS:** Listed on Inventory: YES

**OTHER TSCA ISSUES:** All components of this product are listed on the TSCA Inventory.

### **SARA TITLE III/CERCLA:**

"Reportable Quantities (RQs) and/or "Threshold Planning Quantities (TPQs) exist for the following ingredients.

<b>INGREDIENT NAME/</b>	<b>CAS NUMBER</b>
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ETHYL ACETATE	141-78-6
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**Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the**

**SECTION 311 HAZARD CLASS:** Immediate. Fire.

### **SARA 313 TOXIC CHEMICALS:**

The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

### **STATE RIGHT-TO-KNOW:**

The following are listed for state right-to-know purposes.

## **16. ADDITIONAL REGULATORY INFORMATION:**

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Prepared by Saferlife Products Co.,Ltd.

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