

SAFETY DATA SHEET

This document is prepared to the Globally Harmonized System of Classification and Labelling of Chemicals Guidelines 29CFR 1910 (OSHA HCS)

SECTION 1. PRODUCT IDENTIFICATION

1.1 TRADE NAME (AS LABELED): Vinyl Repair Glue
1.2 SYNONYMS: Adhesive
CAS#: Mixture
1.2 PRODUCT USE: To repair inflatable boats, air beds, swimming pools, tents and toys
1.3 MANUFACTURER'S NAME: Shin Dorn Plastic Toy Co., Ltd
ADDRESS: No. 2 Coalmine, Huang Bian, Xin Shi Town, Guang Zhou, China
CONTACT PERSON: Mr. Scott Lee (info@shindorn.com)
BUSINESS PHONE: +86-20-86172272
FAX: +86-20-86171423
EMAIL: info@shindorn.com

1.4 EMERGENCY PHONE NUMBERS: +86-20-86172272
DATE OF CURRENT REVISION: May 27, 2015
DATE OF LAST REVISION: New

SECTION 2. HAZARD IDENTIFICATION

Component(s) Contributing to Classification(s)

All Ingredients

Signal Word: Danger

GHS Hazard Classification(s):

Hazard	Category	Symbol	Signal Word	Hazard Code	Hazard Statement
Highly Flammable Liquid	2	Flame	Danger	H225	Highly Flammable Liquid and Vapour
Serious eye damage/eye irritation	1	Corrosion	Danger	H318	Causes serious eye damage
Specific Target Organ Toxicity single exposure, Narcotic effects	3	Exclamation Mark	Warning	H336	May cause drowsiness or dizziness
Skin Corrosion/Irritation	3	No Symbol	Warning	H316	Causes mild skin irritation

LABEL ELEMENTS



Flammable Liquid



Skin Irritant



Serious Eye Damage

H225: Highly Flammable Liquid and Vapor
H315: Causes skin irritation
H332: Harmful if inhaled
H336: May cause drowsiness and dizziness

Precautionary Statement(s):

P102 : Keep out of reach of children
P210: Keep away from heat/sparks/open flame/hot surfaces – No Smoking.

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P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P271: Use only in well ventilated areas.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response Statement(s):

P363: Wash contaminated clothing before reuse.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or Doctor/Physician.
P333 + P313: IF skin irritation or rash occurs : Get medical advice/attention.

Storage Statement(s):

P403+P235: Store in a well-ventilated place. Keep cool

Disposal Statement(s):

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

2.3 HEALTH HAZARDS OR RISKS FROM EXPOSURE:

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin or eyes and inhalation of vapors. The symptoms of overexposure are described in the following paragraphs.

ACUTE:

INHALATION: Inhalation can cause severe irritation of mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. High concentrations may cause lung damage. An irritant to the nose, throat, and upper respiratory tract.

INGESTION: Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea.

SKIN CONTACT: Causes irritation to skin. Symptoms include redness, itching, and pain. Repeated or prolonged contact with the skin has a defatting effect and may cause dryness, cracking, and possibly dermatitis.

EYE CONTACT: Causes irritation, redness, and pain.

CHRONIC:

Chronic exposure to organic solvents has been associated with various neurotoxic effects including permanent brain and nervous system damage. Symptoms include loss of memory, loss of intellectual ability and loss of coordination.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing skin, eye, impaired liver, kidney or respiratory function may be more susceptible to the effects of this substance.

TARGET ORGANS: Acute: Skin, Respiratory System, Eyes and CNS

Chronic: Blood, Liver, Kidneys

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EC No.	
Methyl Ethyl Ketone (2-Butanone)	18	78-93-3	201-159-0	
Ethyl Acetate	40	141-78-6	205-500-4	
Methyl Acetate	14	79-20-9	201-185-2	
Acetone	14	67-64-1	200-662-2	
Polyurethane	14	26680-22-8	N/A	
Balance of other hazardous ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers). N/A = Not Applicable				

SECTION 4. FIRST - AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation develops or persists or if visual changes occur.

SKIN CONTACT: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

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4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Contact with eyes may cause irritation with redness and tearing. Prolonged skin exposure may cause skin irritation, defatting of skin and possible dermatitis.

4.3 RECOMMENDATIONS TO PHYSICIANS:

Treat symptoms and eliminate overexposure.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 FIRE EXTINGUISHING MATERIALS:

Use fire extinguishing methods below:

Water Spray: Use Mist Carbon Dioxide: Yes
Foam: Yes Dry Chemical: Yes
Halon: Yes Other: Any "C" Class

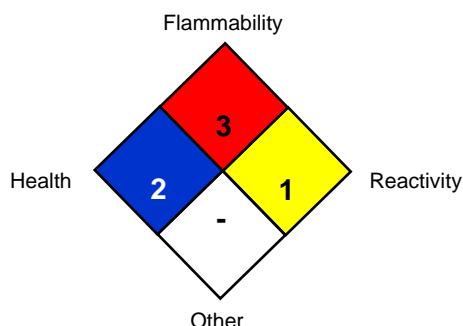
5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS:

Flammable in presence of open flames and sparks.

5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM



HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)	2		
FLAMMABILITY HAZARD (RED)	3		
PHYSICAL HAZARD (YELLOW)	0		
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Flammability Rating 3:

Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions (e.g. [gasoline](#), [acetone](#)). Liquids having a flash point below 23 °C (73 °F) and having a boiling point at or above 38 °C (100 °F) or having a flash point between 23 and 38 °C (73 and 100 °F).

HMIS Flammability Rating 3:

3 Serious Hazard Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves and eye/face protection.

6.2 ENVIRONMENTAL PRECAUTIONS:

Keep out of sewers, storm drains, surface waters, and soils.

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6.3 SPILL AND LEAK RESPONSE:

Small spills: Contain and recover liquid if possible. Use non-sparking tools and equipment to keep fires from starting. Soak up with absorbent material such as clay, sand or other suitable non-reactive, non-combustible material. Place in leak-proof containers. Seal tightly for proper disposal.

SECTION 7. HANDLING and STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Wash hands after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, and alkalis

7.2 STORAGE AND HANDLING PRACTICES:

Protect against physical damage. Store in a cool, dry well-ventilated location.
Shelf Life: 24-months at 77°F (25°C). When unopened.

7.3 SPECIFIC USES:

This product is a polyurethane adhesive available in a variety of container sizes.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 EXPOSURE PARAMETERS:

Hazardous Ingredients:	WT%	CAS#	EC No.	OSHA PEL
Methyl Ethyl Ketone (2-Butanone)	18	78-93-3	201-159-0	200PPM
Ethyl Acetate	40	141-78-6	205-500-4	400PPM
Methyl Acetate	14	79-20-9	201-185-2	200PPM
Acetone	14	67-64-1	200-662-2	750PPM
Polyurethane	14	26680-22-8	N/A	Not established

Balance of other hazardous ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers). N/A = Not Applicable

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please refer applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Not normally required for properly ventilated areas. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Use chemical safety goggles and/or a full face shield where splashing and eye contact is possible. Maintain eye wash fountain and quick-drench facilities in work area. Contact lenses pose a special hazard; Do not wear contact lenses. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

HAND PROTECTION: Use of chemical resistant gloves is recommended to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Use body protection appropriate to task being performed. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE (Physical State) and COLOR: Colorless to slightly yellow liquid

ODOR: Solvent odor

ODOR THRESHOLD: Not Available

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pH: Not Available
MELTING/FREEZING POINT: -73.5C
BOILING POINT: 70-80C
FLASH POINT: -6°C
EVAPORATION RATE (n-BuAc=1): less than 1
FLAMMABILITY (SOLID, GAS): Not Applicable
UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS: 1.2-7.5%
VAPOR PRESSURE (mm Hg @ 20°C (68°F): Not available.
VAPOR DENSITY: Heavier than air
RELATIVE DENSITY: Not Available
SPECIFIC GRAVITY: 0.75-0.85 g/ml (water)
SOLUBILITY IN WATER: Non-Soluble
WEIGHT PER GALLON: Not available
PARTITION COEFFICIENT (n-octanol/water): Not Available
AUTO-IGNITION TEMPERATURE: 408°C
DECOMPOSITION TEMPERATURE: Not Available
VISCOSITY: Not available
% VOLATILE: <82-88

9.2 OTHER INFORMATION:

No additional information available at this time.

SECTION 10. STABILITY and REACTIVITY

10.1 REACTIVITY:

This product is not reactive.

10.2 STABILITY:

Stable under conditions of normal storage and use.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Will not occur.

10.4 CONDITIONS TO AVOID:

Excess heat, ignition sources, incompatible materials.

10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

Oxidizing agents, alkalis

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition products include carbon monoxide, carbon dioxide and other organic substances.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

TOXICITY DATA:

Hazardous Ingredients:	WT%	CAS#	Oral LD50 mg/kg (rat)	Dermal LD50 Rabbit mg/kg	Inhalation LC50 Rat mg/m3
Methyl Ethyl Ketone (2-Butanone)	18	78-93-3	3400	6480	23520 2hr
Ethyl Acetate	40	141-78-6	5620	4940	45000 2hr
Methyl Acetate	14	79-20-9	5450	5000	5760 8hr
Acetone	14	67-64-1	5800	20000	503124 2hr
Polyurethane	14	26680-22-8	NA	NA	NA

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IRRITANCY OF PRODUCT: This product may be irritating to skin, respiratory system and eyes.

SENSITIZATION TO THE PRODUCT: This product does not contain chemicals that cause sensitization to the skin and lungs.

REPRODUCTIVE TOXICITY INFORMATION: No specific information is available concerning the effects of this product and its components on the human reproductive system.

SECTION 12. ECOLOGICAL INFORMATION

12.1 TOXICITY:

No ecotoxicity data available.

12.2 PERSISTENCE AND DEGRADABILITY:

When released to water, this material is expected to quickly evaporate. When released into the water, this material is expected to have a half-life of less than 1 day. This material has a log octanol-water partition coefficient of less than 3.0. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals.

12.3 BIOACCUMULATIVE POTENTIAL:

This material is not expected to significantly bioaccumulate.

12.4 MOBILITY IN SOIL:

When released into the soil, this material may leach into groundwater. When released into the soil, this material may evaporate to a moderate extent. When released into water, this material may biodegrade to a moderate extent.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT:

No specific data available on this product.

12.6 OTHER ADVERSE EFFECTS:

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

12.7 WATER ENDANGERMENT CLASS:

Not expected to be water endangering in accordance with EU Guideline 91/155-EWG. Do not allow product to reach ground water, water course or sewage system.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

13.2 EU WASTE CODE:

Not determined

SECTION 14. TRANSPORTATION INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number:	UN1133	UN1133	UN1133
UN Proper shipping name:	ADHESIVES, containing flammable liquid	ADHESIVES, containing flammable liquid	ADHESIVES, containing flammable liquid
Transport hazard class:	3	3	3
Packaging group:	III	III	III
Environmental hazards:	No	No	No
Limited Quantity	5L Passenger aircraft/rail	Not Listed	60L Cargo Aircraft only
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable

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SECTION 15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows:

SARA 313 REPORTING: None

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): Not found.

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted from listing.

OTHER U.S. FEDERAL REGULATIONS: None known

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product does not contain ingredients that are on the Proposition 65 Lists.

15.2 CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: All components are DSL Listed, NDSL Listed and/or are exempt from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is a Class B2 — Flammable Liquids: Flashpoint of < 37.8C (100F). Symbol: Flame.

15.3 EUROPEAN ECONOMIC COMMUNITY INFORMATION:

This product does meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

See Section 2 for Details.

CHEMICAL SAFETY ASSESSMENT:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 AUSTRALIAN INFORMATION FOR PRODUCT: The components of this product are listed on the International Chemical Inventory list.

15.5 JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

JAPANESE ENCS INVENTORY: The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.

POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW: No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

15.6 INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Listed

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

Swiss Giftliste List of Toxic Substances: Listed

U.S. TSCA: Listed

EUROPEAN UNION INFORMATION:

EMERGENCY OVERVIEW:

Product Description: This product is a pale yellow liquid with a solvent odor.

Health Hazards: Harmful if swallowed or inhaled (Aspiration hazard). Causes irritation to skin, eyes and respiratory tract.

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Flammability Hazards: NFPA Flammability rating 3. Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions (e.g. [gasoline](#), [acetone](#)). Liquids having a flash point below 23 °C (73 °F) and having a boiling point at or above 38 °C (100 °F) or having a flash point between 23 and 38 °C (73 and 100 °F).

Reactivity Hazards: This product is not reactive.

Environmental Hazards: Release of the product is not expected to cause adverse effects to the aquatic environment.

Emergency Recommendations: Emergency responders must have personal protective equipment and fire protection appropriate for the situation to which they are responding.

US DOT SYMBOLS

SEE SECTION 14 FOR DETAILS

CANADA (WHMIS) SYMBOL(S)



EUROPEAN and (GHS) Hazard Symbol(s)



Signal Word: **Danger!**

EU LABELING AND CLASSIFICATION:

This product does meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:

EC# Proprietary This substance is not classified in the Annex I of Directive 67/548/EEC

EC# 204-658-1 Annex1 Index# 607-025-00-1

EC# 215-535-7 Annex1 Index# 601-022-00-9

EC# 265-199-0 Annex1 Index# 649-356-00-4

EC# 201-039-8 This substance is not classified in the Annex I of Directive 67/548/EEC

CAS# 9004-36-8 Not Listed in ESIS

Substances not listed either individually or in group entries must be self classified.

SECTION 16. OTHER INFORMATION

ABBREVIATIONS AND ACRONYMS:

EPA: United States Environmental Protection Agency

ARD: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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END OF SDS SHEET