

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: VINYL ADHESIVE (for flexible vinyl products)
TRADE NAME : BSA7
Manufacturer/supplier: Company Name: NAN YA PLASTICS CORPORATION Address: No.6 KONG YE H 1st ROAD 832 LIN YUAN DIST., KAOHSIUNG CITY, TAIWAN R.O.C. Emergency Telephone / Fax No.: 886-7-6419911-683 / 886-7-6432546

2. COMPOSITION/INFORMATION ON INGREDIENTS

MIX SUBSTANCE			
Component (s)	Catalogue of Hazards	C. A. S. No.	Percentage
ETHYL ACETATE	3 flammable	141-78-6	30.0%~40.0%
EA/VAM COPOLYMER			40.0%~48.0%
TOLUENE	3 flammable	108-88-3	9.0%~19.0%

3. HAZARDOUS IDENTIFICATION

Warning : Irritation to the skin, eyes and respiratory tract. ○May be absorbed through the skin	Protective Measures : ○Avoid contact with the skin, eyes and wear proper skin protection
Critical Hazards: Flammable liquid and vapor. Vapor may ignite explosively.	
Class / Division: 3 FLAMMABLE	

4. FIRST AID MEASURES

Inhalation: remove person to fresh air. if breathing is difficult , provide oxygen and seek medical attention
Skin Contact: Take off the clothing and wash with water and soap, and flush with warm water for 15 minutes, Call physician.
Eye contact: Flush eyes with a large amount of water for 20~30 minutes, Call physician.
Ingestion: Get immediate medical attention.
Suck or taking will cause toxicity.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA/ FIRE FIGHTING PROCEDURES
Use the following extinguishing media when fighting fires involving this material: water fog, foam, dry chemical, or carbon dioxide.
Special risk: Explosive when organic vapor heated.
Special extinction procedures:
1.Fire involving should be fought upwind and wear a suitable set of protective clothing.
2.Water spray may be used to cool fire exposed containers, but the spray may not extinguish fire.
Firefighters should wear a self-contained breathing apparatus and breathe the vapor.

6. ACCIDENTAL RELEASE MEASURES

RELEASE RESPONSE

Remove unnecessary personnel from the area. Avoid inhalation of the vapors and contact with the skin. Avoid leakage to the drainage system. Contain with an absorbent material and transfer to a suitable container for disposal.

PERSONAL PROTECTIVE EQUIPMENT

Wear chemical splash goggles, impervious body covering and rubber gloves. Wear an air-purifying respirator equipped with cartridges for protection against organic vapors.

CONTAINMENT AND CLEANING:

1. Promptly remove ignition sources, both actual and potential..
2. Small spills may be absorbed with dry earth or sand, or wiped off with rag, and placed into a chemical waste containers.
3. In case of large spills, dike with earth or sand to guide the flow to a safe area for collection and recovery
4. To be burned in the incinerator.
5. To bury the solid wastes in the qualified waste yard.
6. To freight with the qualified transportation.

7. HANDLING AND STORAGE

Handling:

1. When using do not wear contact lens. Always wear protect equipments.
2. After handling wash hands thoroughly and change the contaminated clothing.
3. Pay attention to the management of empty containers as well.
4. Prevent generation of static electricity. Clothing and work shoes must be electroconductive.
5. Ground and bond containers when transferring material.
6. Wear rubber gloves, protective mask

Storage:

1. Store in a ventilated area.
2. The product content low flash point evaporated solvent, when it is applied, fire is prohibited.
3. Electrical equipment must be of explosion-proof construction and ground.
4. Keep away from ignition sources, high temperatures as boiler, and oxidizing materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

Not established

ENGINEERING CONTROL MEASURES

Use local exhaust ventilation if material is heated or missing.

PERSONAL PROTECTION EQUIPMENT:

Respiratory Protection:

Hand Protection:

Eye Protection: Use safety chemical goggles

Skin & Body Protection: Use Anti-splash Clothing

Industrial Hygiene:

1. To install emergency eye wash fountains and shower at the potential exposed zone.
2. Thoroughly wash the polluted clothing before next use.
3. A worker who handles P.S.A. should thoroughly wash hands with soap and water before eating, using tobacco products, using toilet facilities.
4. Always take shower with clean water and soap after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid	Color: transparent	Odor : ketoner
P.H. Value: No	Boiling Range: 77 °C	Decomposition Temperature:
Flash Point: -4.4°C	Explosion Limits: 1.2~11.5%	Solubility in water: uncompletely soluble
Specific Gravity: 0.9	Vapor Pressure: 3.1	Melting point:

10. STABILITY AND REACTIVITY

Chemical Stability: Stable
Possible hazardous reaction under extreme conditions: Will not occur
Conditions to avoid : heat
Decomposition: Smog, CO, CO ₂ .
Incompatibility with other materials:

11. TOXICOLOGICAL INFORMATION

Not determined.

12. ECOLOGICAL INFORMATION

BIODEGRADATION: Not established
ACCUMULATIVENESS: N/A

13. DISPOSAL CONSIDERATION

Comply with all national or local recommendations and regulations.
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14. TRANSPORT INFORMATION

International Transport Regulation: N/A	UN No. : 1133
Local Transport Regulation: N/A	Hazard class: 3
Special Transportation & Consideration: Avoid transported with incompatible goods.	

15. REGULATORY INFORMATION

Comply with each country's regulation.
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16. Other Information

The data here is based on our current knowledge and experience. The data can be revised by new information. The purpose of this Safety Data Sheet is to describe the products from the point of view of safety requirements. Therefore it should not be construed as guaranteeing specific properties.	
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