



SAFETY DATA SHEET

1.PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: VINYL ADHESIVE (for rigid vinyl products)
Product USE Description : ASAA
Manufacturer/supplier: Nan Ya Plastics Corporation, No.6, Gongye 1st Rd., Linyuan District, Kaohsiung City 832, Taiwan (R.O.C.)
Emergency Telephone : (886)-(07)6419911EXT683

2.HAZARDS IDENTIFICATION

<p>Hazardous classification : Flammable liquid Category 2 ;Acute toxicity Category 4; Eye Category 2 ;</p> <div style="text-align: right;">   </div> <p>Hazardous Highly flammable liquid and vapor ; Causes serious eye irritation ; May cause respiratory irritation ; May cause drowsiness ; May form explosive peroxides ; Irritation to the skin , eyes and respiratory tract. ; May be absorbed through the skin</p> <p>Other hazardous Keep away from heat/sparks/open flames/hot surfaces–No smoking Avoid breathing dust/flume/gas/mist/vapors/spray ; Get medical advice/attention Wear protective clothing/eye protection /face protection Store in a well ventilated place .Keep container tightly closed Dispose of contents/container in accordance with local regulation Keep out of the reach of children</p>
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Component (s)	C.A.S .No.	Percentage
Ethyl Acetate	141-78-6	40.0%~50.0%
Cyclohexanone	108-94-1	44.0%~54.0%
Polyvinyl Chloride Resin	9002-86-2	10.0%~12.0%

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

Suitable extinguishing media : Use the following extinguishing media when fighting fires involving this material : water fog , foam, dry chemical, or carbon dioxide.

Special hazardous during fire fighting : EXPLOSIVE WHEN ORGANIC VAPOR HEATED.

Special protective equipment for fire-fighter : 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.

3.Self-contained breathing apparatus or full-face positive pressure airline masks

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment.

Keep people away from and upwind of spill/leak.

Material can create slippery conditions.

Environmental precautions

CAUTION : Keep spills and cleaning runoff out of municipal sewers and open bodies of water

Methods for cleaning UP

- 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 in 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 burned in the incinerator.
5. To bury the solid wastes in the qualified waste yard.
6. To freight with the qualified transportation.

7. HANDING AND STORAGE

- Handing** :
- 1.When using do not wear contact lens. Always wear protect equipments.
 - 2.After handling wash hands thoroughlyand change the contaminated clothing.
 - 3.Pay attention to the management of empty containers as well.
 - 4.Prevent generation of staic 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 CONTROL/PERSONAL PROTECTION

Exposure limit(s)

Not established

Exposure controls: USE LOCAL EXHAUST VENTILATION IF MATERIAL IS HEATED OR MISSING.

Eye protection : Safety glasses with side–shields Eye protection worn must be compatible with respiratory protection system employed.

Skin Protection:The gloves listed below may provide protection against permeation.(Gloves of other chemically resistant materials may not provide adequate protection) : Butyl rubber gloves,solvent–resistant gloves.
Preventcontact with the skin. Use Anti–splash Clothing

Respiratory protection : Use in a well–ventilated room.use local exhaust ventilation to move airborne contaminants from employee brething zone and to keep contaminants below levels .incertified respiratory protection equipment meeting EU requirement (89/656/EEC,89/686/EEC),or equivalent,when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures ,methods or procedures of work organization.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Colour	transparent
Odour	ketone
Odour Threshold	Not established
P h	Not Applicable
Boiling point	77 °C Based on first boiling component: Ethyl Acetate
boiling range	77 °C to 157 °C
Melting/Freezing point	
Flash point	-4.4 °C Based on Ethyl Acetate
Flammability (solid,gas)	Category 2
Ignition temperature	420°C Based on Cyclohexanone
Decomposition temperature	Not established
Lower explosion limit	1.1 % Based on Cyclohexanone
Upper explosion limit	11.5 % Based on Ethyl Acetate
Vappor pressure	73 mmHg@20°C Based on Ethyl Acetate
Relative vappor pressure	Not established
Water solubility	Not established
Solubility in other solvents	Not established
Relative density	0.95
Viscosity (cps 25°C)	Heavy bodied
Evaporation rate	>1.0
Percent volatility	Not established

10.STABILITY AND REACTIVITY

Hazardous reactions : stable
Hazardous decomposition products:None in normal use.When forced to burn, this product gives off oxides of carbon,hydrogen chloride and smoke.
Material to avoid : Oxidizers,strong acids and bases,amines,ammonia.
Polymerization : Product will not undergo polymerizatiobn.

11. TOXICOLOGICAL INFORMATION

Routes of exposure : inhalation ,eye contact, skin contact
Skin corrosion/irritation : Not established.
Serious eye damage/eye irritation : Not established.
Sensitisation : Not established
Carcinogenicity : Not established
Mutagenicity : Not established
Toxicity to reproduction : Not established

Specific Target Organ Systemic Toxicity (Single Exposure)

Inhalation : Inhalation of vapor or mist can cause the following :

irritation of nose,throat ,and lungs

headache

nause

Skin : Prolonged or repeated skin contact can cause the following :

Slight irritation

Eyes : Direct contact with material can cause the following :

Slight irritation

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Not established

Aspiration Hazard :

Not established

No data are available for this material .The information shown is based on profiles of compositionally similar materials.

12. ECOLOGICAL INFORMATION**Acute aquatic toxicity**

Acute toxicity to fish NOT ESTABLISHED

Acute toxicity to aquatic invertebrates Not established

Acute toxicity to algae Not established

Toxicity to bacteria Not established

Specific concentration limits NOT ESTABLISHED

Chronic aquatic toxicity

Chronic toxicity to fish Not established

Chronic toxicity to aquatic invertebrates Not established

Toxicity to soil-dwelling organisms Not established

Toxicity to terrestrial plants Not established

Toxicity to other non-mammalian terrestrial species Not established

Persistence and degradability

Biodegradability Not established

Physico-chemical removability NOT ESTABLISHED

Bioaccumulative potential

Bioaccumulation Not established

Mobility in soil

Partition coefficient : n-octanol/water Not established

Distribution among environmental compartments NOT ESTABLISHED

Fate and behaviour in the environment Not established

13. DISPOSAL CONSIDERATIONS

Precautions

Dispose of containers/container in accordance with local/national/regional regulations.

Environmental precautions : Caution : Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Disposal

Comply with all national or local recommendations and regulations.

14. TRANSPORT INFORMATION

Classification for Road and Rail transport : N/A

Classification for SEA transport : N/A

Classification for AIR transport : N/A

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

Special Transportation & Consideration: Avoid transported with incompatible goods.

15. REGULATORY INFORMATION

Regulation – Taiwan

Regulation on the Labor Safety and Health Facilities

Regulation of Labelling and Hazard Communication of Dangerous and Harmful Materials

Methods and Facilities Standards for the storage , Clearance and Disposal of Industrial Waste

Road and Traffic Safety Regulation

Comply with each country's regulation.

16. Other Information

Reference:

Manufacturer: Nan Ya Plastics Corporation,inc.

No.6, Gongye 1st Rd., Linyuan District, Kaohsiung City 832, Taiwan (R.O.C.)

Tel: (07)6419911-683

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