SAFETY DATA SHEET

HSR-618Y Solvent-Based Polyurethane Spray Adhesive

20 kg round steel drum | Version V1.0

1. Chemical and supplier identification

Trade name	AMPUDA HSR-618Y Solvent-Based Polyurethane Spray Adhesive
Chemical name	Diphenylmethane diisocyanate prepolymer
Supplier	Shenzhen Hongshengrong Technology Co., Ltd.
Address	Room 202, Building 1, No. 163 Zhenming Road, Gongming Subdistrict, Guangming District, Shenzhen, China
Phone / WhatsApp	+86 15818706193
Email	zangbin112@gmail.com
Emergency telephone	A dedicated company 24-hour emergency number has not been provided. In an emergency, contact local emergency services.

2. Composition / information on ingredients

Component	Content (%) / CAS No.
Diphenylmethane diisocyanate prepolymer	40 ± 2 / Not provided
Dimethyl carbonate	60 ± 2 / 616-38-6

3. Hazards identification

Hazard category stated in the source: Class 3 toxic chemical substance (flammable liquid).

Routes of exposure: Ingestion, inhalation and skin absorption.

Health hazards: Harmful if inhaled or swallowed; may depress the central nervous system. Vapors may cause headache, fatigue, dizziness, blurred vision, nausea, numbness, impaired coordination and confusion. Aspiration into the lungs may occur during ingestion or vomiting. The source reports no significant bioaccumulation and biodegradability. Releases to water or soil may evaporate and biodegrade; releases to air may react with hydroxyl radicals.

Fire and explosion: Flammable liquid and vapor. Liquid may accumulate static charge. Vapors are heavier than air and may travel to distant ignition sources and flash back. High temperatures may release toxic gases. Containers exposed to fire may rupture or explode.

4. First-aid measures

Eyes: Rinse immediately with plenty of water for at least 15 minutes, lifting the eyelids. Seek medical attention if symptoms persist.

Skin: Remove contaminated clothing and wash thoroughly with plenty of water; then wash hands. Seek medical attention if symptoms persist. Wash clothing before reuse.

Inhalation: Move the affected person immediately to a well-ventilated area. The source calls for artificial respiration if breathing is difficult. Seek medical attention if symptoms persist.

Ingestion: Do not induce vomiting. Seek medical attention promptly.

5. Fire-fighting measures

Flash point: <20°C. **Fire hazard:** Flammable.

Extinguishing media: Carbon dioxide, dry powder or suitable foam.

Firefighter protection: Wear self-contained breathing apparatus and protective clothing.

Specific hazards: Vapors are heavier than air, may travel to ignition sources and flash back, and may accumulate in confined low areas. Vapor-air mixtures may be explosive. Containers exposed to fire may explode. Cool fire-exposed containers with water spray.

Combustion products listed in the source: Carbon monoxide, carbon dioxide, ethanol, acetic acid, other irritating gases, smoke and fumes.

6. Accidental release measures

Use explosion-proof equipment. Remove ignition and heat sources from the spill area. Ventilate and isolate the area. Wear the protective equipment specified in Section 8. Avoid breathing vapors or contacting spilled material. Stop the leak if safe to do so. Absorb with sand, vermiculite or diatomaceous earth and collect as much material as possible into suitable labeled containers. Do not discharge collected spill material into drains, ditches or water sources.

Disposal: Handle all waste in accordance with applicable United Nations, national and local regulations, as stated in the source.

7. Handling and storage

Handling: Keep away from heat, sparks, open flames and ignition sources. Keep containers sealed when not in use. Avoid eye contact and prolonged or repeated skin contact. Wash with soap and water after handling. Do not smoke. Empty containers may contain chemical residues; do not damage empty steel containers.

Storage: Store in a cool, dry, well-ventilated area, separately from peroxides. Keep away from food and water sources and incompatible materials. Wash hands thoroughly before eating or drinking. Do not smoke.

8. Exposure controls / personal protection

Maximum allowable concentration: The source states that no Chinese MAC standard has been established. **Monitoring:** Gas chromatography.

Engineering controls: Enclose the production process and provide adequate ventilation.

Respiratory protection: The source specifies an air breathing apparatus or oxygen breathing apparatus.

Eyes: Chemical safety goggles. **Body:** Protective clothing resistant to chemical permeation. **Hands:** Oil-resistant rubber gloves.

Other protection: No smoking, eating or drinking at work. Avoid alcoholic beverages before work. Shower and change clothes after work. Conduct pre-employment and periodic medical examinations, as stated in the source.

9. Physical and chemical properties

Flash point	<20°C
Flammability	Flammable
Water solubility	Poorly soluble in water
Appearance	Colorless or pale-yellow transparent liquid
Use stated in source	Hydroxyl component for coatings and adhesives

10. Stability and reactivity

Stability: Stable under normal conditions. **Conditions to avoid:** Open flames and high heat. **Incompatible materials:** Strong oxidizing agents.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxides, ethanol, acetic acid, other irritating gases, smoke and soot. **Hazardous polymerization products:** None stated in the source.

11. Toxicological information

Diphenylmethane diisocyanate prepolymer: No data available in the source.

Dimethyl carbonate - acute toxicity: Oral LD50, rat: 13,000 mg/kg. Dermal median lethal dose, rabbit: >5,000 mg/kg. The original source labels the dermal value "ID50".

Endpoint	Source information
Skin irritation / corrosion	No data available
Eye irritation / corrosion	No data available
Respiratory / skin sensitization	No data available
Germ-cell mutagenicity	No data available
Carcinogenicity	The source states that no component at a concentration of 0.1% or greater is identified by IARC as a possible or confirmed human carcinogen.
Reproductive toxicity	No data available
Specific target organ toxicity	Single and repeated exposure: no data available
Aspiration hazard	No data available

Potential health effects: Inhalation may be harmful and may irritate the respiratory tract. Ingestion is harmful. Skin absorption may be harmful and may cause irritation. Causes serious eye irritation, according to the source.

12. Ecological information

The source reports toxicity to organisms and serious environmental harm. Avoid contamination of surface water, soil, air and drinking water. Notify relevant authorities of waste releases. The source also states that U.S. marine-protection requirements call for immediate notification of water pollution or releases to seasonally dry streams.

13. Disposal considerations

Dispose of all waste in accordance with applicable United Nations, national and local regulations, as stated in the source. Discarded material may be regulated waste under local rules. Solutions used to clean containers must also be disposed of appropriately. Observe applicable waste, air-pollution and water-pollution requirements.

14. Transport information

Maritime shipping name	FLAMMABLE LIQUID, N.O.S.
Hazard class	3
UN number	UN 1993
Packing group	I, II, III are listed in the source; one applicable packing group has not been determined.
Transport mode	Sea transport
Domestic transport statement	The source refers to Class 3 toxic chemical substance provisions.
Packaging	Steel drums or plastic drums, as stated in the source

Transport precautions: Equip vehicles with suitable fire-fighting and spill-response equipment. Do not transport together with oxidizing agents or food chemicals. Protect against sunlight, rain and high temperatures. Follow prescribed routes and avoid stopping in residential or densely populated areas.

15. Regulatory information

Regulations referenced in the source (translated titles): Dangerous Goods Regulations; Model Regulations on the Transport of Dangerous Goods; International Maritime Dangerous Goods Code; Classification and List of Dangerous Goods; Occupational Safety and Health Hazards provisions; Toxic Substances Control Act; Consumer Product Safety Act; Federal Environmental Pollution Control Act; Superfund Amendments and Reauthorization Act Title III (302/311/312/313); Resource Conservation and Recovery Act; California Proposition 65. Refer to applicable United Nations, national and local requirements.

16. Other information

The information is based on currently available data. Unanticipated circumstances may arise during actual use and the information may require revision. The supplier assumes no responsibility for such circumstances. Select appropriate measures according to actual conditions.

Original SDS completion date: December 16, 2024.
Rebranding / preparation date: October 12, 2026.

Rebranding note: The source lists packing groups I, II and III without selecting one. Before shipment, confirm the applicable classification, UN number and packing group using product test data.

English translation of the supplied Chinese SDS. Source statements and unresolved items are retained; translation does not constitute an independent hazard-classification or regulatory review.