SYNERGY · INDUSTRIAL GRADE · CODE PSH-45

PSH 45

Water based acrylic emulsion adhesive for screen printing and manual pasting jobs, available from 1 kg packs.

Prepared in the 16-section format of the Globally Harmonized System (GHS).

Section 1: Identification

Product name	PSH 45
Product code	PSH-45
Chemical name	Acrylic copolymer emulsion (pressure sensitive adhesive)
Chemical family	Acrylic copolymer dispersion in water
Recommended use	For screen priting and other manual pasting jobs; Industry: Screen printer / manual application
Uses advised against	Uses other than those recommended.
Supplier	Synergy Bonding Solutions Pvt Ltd 205, 4th Floor, Mont Vert Spectra, Pallod Farms, Baner Pune, Maharashtra 411045 India
Manufacturing	ISO 9001:2015 certified plants in Pune, Maharashtra, India
Telephone / Email	+91 9021 086 995, +91 7774 055 316 | marketing@synergybonding.in
Emergency telephone	+91 9021 086 995 (office hours)

Section 2: Hazard Identification

GHS classification	**Not classified as hazardous under GHS.**
Pictogram / signal word	None required
Hazard statements	None
Precautionary statements	• P102 Keep out of reach of children. • P280 Wear protective gloves and eye protection. • P501 Dispose of contents and container in accordance with local regulations.
Physical state	Milky white liquid
Other hazards	• Eye: may cause slight, temporary irritation. Does not injure eye tissue. • Skin: frequent or prolonged contact may irritate the skin. • Ingestion: not expected to be harmful; low order of toxicity. • Inhalation: vapours may irritate the respiratory system and nasal passages.

Section 3: Composition / Information on Ingredients

Component	CAS No.	Content (% w/w)
Acrylic copolymer	Confidential	45 (±1)%

Section 3: Composition / Information on Ingredients

Component	CAS No.	Content (% w/w)
Water	7732-18-5	Balance
Formulation additives	Confidential	Minor

Section 4: First Aid Measures

Skin contact	Wash the affected area immediately with soap and water. Seek medical attention if irritation persists.
Eye contact	Rinse with plenty of water for at least 15 minutes, holding the eyelids wide open. Seek medical attention.
Ingestion	Rinse mouth with water and keep the person calm. Do NOT induce vomiting. Get medical attention.
Inhalation	Move to fresh air. If symptoms develop and persist, get medical attention.

Section 5: Fire Fighting Measures

Flammability	Water based product; not flammable as supplied.
Suitable extinguishing media	Water spray, foam, carbon dioxide, dry powder or sand.
Special hazards	After the water has evaporated, the dried polymer film can burn and may give off carbon oxides and irritating fumes.
Protective equipment	Fire fighters should wear self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions	Wear the protective equipment listed in Section 8. Spilled product makes floors slippery.
Environmental precautions	Contain the spill. Do not let product enter drains, sewers or watercourses; inform the local authorities if it does.
Clean-up	Absorb with sand, earth or another inert binding material and collect in containers for disposal. Wash the remaining residue away with plenty of water and wipe with a wet cloth.

Section 7: Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Wash thoroughly after handling.
Storage	Keep containers tightly closed in a cool, well ventilated place. Avoid extreme temperatures and protect from freezing. Open drums in a ventilated area.
Incompatible materials	Strong oxidising agents; materials that react with water.

Section 8: Exposure Controls / Personal Protection

Engineering controls	Not normally required. Use local exhaust ventilation where vapours or mist are generated.
Eye protection	Chemical splash goggles or safety glasses with side shields.
Hand protection	Chemical resistant nitrile gloves.
Body protection	Work clothing. Change contaminated clothing immediately.
Hygiene measures	Keep the work area clean. Wash hands before breaks and at the end of work.

Section 9: Physical and Chemical Properties

Appearance	Milky white liquid
Odour	Slightly sweet
pH	4 – 6
Solid content	45 (±1)%
Viscosity	4000 – 12000 cps (30°C, SPD #4, 20 RPM)
Specific gravity	Approx. 1.0 – 1.1
Boiling point	Approx. 100°C (water)
Flash point	Not applicable (water based)
Explosive properties	Not explosive
Vapour pressure	2.3 kPa at 20°C (water)
Solubility	Dilutable with water when wet; insoluble once dried

Section 10: Stability and Reactivity

Chemical stability	Stable under normal conditions of storage and use.
Conditions to avoid	Freezing and extreme heat.
Materials to avoid	Strong oxidising agents; materials that react with water.
Hazardous decomposition	None under normal conditions. See Section 5 for fire conditions.

Section 11: Toxicological Information

Acute toxicity	No data available for the mixture. Not expected to be acutely toxic.
Skin / eye	May cause slight irritation on prolonged or repeated contact.
Target organs	None known.

Section 12: Ecological Information

Ecotoxicity	No data available for the mixture. Not expected to be harmful to aquatic life at low concentrations.
Precautions	Do not discharge undiluted product into drains or watercourses.

Section 13: Disposal Considerations

Product	Dispose of in accordance with local and national regulations, including the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
Dried adhesive / containers	Dried adhesive and empty, clean containers may normally be handled as non-hazardous industrial waste.

Section 14: Transport Information

UN number	Not applicable
Road / rail (domestic)	Not regulated
Sea (IMDG) / Air (ICAO-IATA)	Not regulated
Marine pollutant	No

Section 15: Regulatory Information

GHS	Not classified as hazardous.
Formaldehyde	Formulated free from formaldehyde.
Phthalates	Formulated free from phthalates.

Section 16: Other Information

Revision	01
Date of issue	28 October 2026
Supersedes	All earlier editions of this data sheet
Abbreviations	GHS: Globally Harmonized System; TWA: time weighted average; STEL: short term exposure limit; TLV: threshold limit value; CAS: Chemical Abstracts Service.
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