

STICK-ONN • FURNITURE GRADE • CODE SO-PUR

Stick-Onn 1K PUR Adhesive

Single component moisture-curing polyurethane for doors, WPC sheets, modular furniture, solid wood and exterior-grade assemblies.

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

Section 1: Identification

Product name	Stick-Onn 1K PUR Adhesive
Product code	SO-PUR
Chemical name	Moisture-curing polyurethane prepolymer adhesive (1K PUR)
Chemical family	One component polyurethane adhesive containing diisocyanates
Recommended use	Door and window manufacturing; WPC sheet bonding and modular furniture; Solid wood and tropical hardwood bonding; Sandwich panels, insulation boards, fireproof boards and sound-dampening materials; Galvanised metal sheets, lightweight construction substrates and decorative materials
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	● Acute toxicity (inhalation), Category 4 ● Skin irritation, Category 2 ● Eye irritation, Category 2 ● Respiratory sensitisation, Category 1 ● Skin sensitisation, Category 1 ● Specific target organ toxicity, single exposure, Category 3 (respiratory irritation) ● Carcinogenicity, Category 2 ● Specific target organ toxicity, repeated exposure, Category 2
Pictograms	 
Signal word	DANGER

Section 2: Hazard Identification

Hazard statements	● H332 Harmful if inhaled. ● H315 Causes skin irritation. ● H319 Causes serious eye irritation. ● H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. ● H317 May cause an allergic skin reaction. ● H335 May cause respiratory irritation. ● H351 Suspected of causing cancer (by inhalation). ● H373 May cause damage to the respiratory tract through prolonged or repeated exposure by inhalation.
Precautionary statements	● P102 Keep out of reach of children. ● P261 Avoid breathing vapours or spray. ● P280 Wear protective gloves and eye protection. ● P284 In case of inadequate ventilation wear respiratory protection. ● P302+P352 IF ON SKIN: Wash with plenty of soap and water. ● P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. ● P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ● P333+P313 If skin irritation or rash occurs: get medical advice. ● P342+P311 If experiencing respiratory symptoms: call a poison centre or doctor. ● P501 Dispose of contents and container in accordance with local regulations.
Physical state	Yellowish liquid
Other hazards	● Persons already sensitised to diisocyanates may develop allergic reactions when using this product. ● Persons with asthma, eczema or other skin or breathing problems should not use this product. ● Reacts with water and moisture, releasing carbon dioxide: a contaminated, closed container can build pressure and burst. ● Training in safe handling of diisocyanates is recommended before industrial or professional use. ● The fully cured adhesive is inert.

Section 3: Composition / Information on Ingredients

Component	CAS No.	Content (% w/w)
Polyurethane prepolymer (MDI based)	Confidential	88% (±2%)
Diphenylmethane diisocyanate, isomers and homologues (MDI)	9016-87-9	Present (free monomer)
Additives and catalyst	Confidential	Minor

Contains diisocyanates. Classification follows the hazards of MDI-based prepolymers.

Section 4: First Aid Measures

Inhalation	Move to fresh air and keep at rest. If breathing difficulties, wheezing or asthma-like symptoms develop, get medical attention immediately. Symptoms may be delayed.
Skin contact	Wipe off adhesive with a dry cloth, then wash with plenty of soap and water. Do not use solvents on skin. Get medical advice if a rash develops.
Eye contact	Rinse immediately with plenty of water for at least 15 minutes, holding the eyelids open. Get medical attention.
Ingestion	Rinse mouth. Do NOT induce vomiting. Get medical attention.
Note to physician	Treat symptomatically. Sensitised persons should avoid further exposure.

Section 5: Fire Fighting Measures

Flammability	Not flammable as supplied; combustible at high temperatures.
Suitable extinguishing media	Foam, carbon dioxide, dry powder; water spray for large fires only.
Special hazards	Decomposes in fire, giving carbon oxides, nitrogen oxides, isocyanate vapours and traces of hydrogen cyanide. Closed containers may burst due to CO ₂ build-up.
Protective equipment	Self-contained breathing apparatus and full protective clothing.

Section 6: Accidental Release Measures

Personal precautions	Ventilate the area. Wear gloves, goggles and respiratory protection (Section 8).
Environmental precautions	Prevent entry into drains and watercourses.
Clean-up	Absorb with sand, sawdust or another inert material. Collect into OPEN containers (do not seal: carbon dioxide is released). Decontaminate the area with a mixture of water (90%), sodium carbonate (5 – 10%) and liquid detergent (0.2 – 2%); leave the waste to react for 48 hours before disposal.

Section 7: Handling and Storage

Handling	Use in well ventilated areas. Avoid breathing vapours, especially when the product is warmed or sprayed. Avoid contact with skin and eyes. Do not eat, drink or smoke while working.
Storage	Store in airtight original containers at room temperature, protected from moisture and frost. Use promptly once opened.
Incompatible materials	Water, alcohols, amines, strong acids and bases.

Section 8: Exposure Controls / Personal Protection

Engineering controls	Local exhaust ventilation where vapours or aerosols may form.
Exposure limit (MDI)	ACGIH TLV: 0.005 ppm (TWA).
Respiratory protection	Where ventilation is inadequate, a respirator with a combined organic vapour / particulate (A2/P2) filter.

Section 8: Exposure Controls / Personal Protection

Hand protection	Nitrile or butyl rubber gloves. Do not use cotton or leather gloves.
Eye protection	Chemical splash goggles.
Body protection	Long sleeved work clothing. Change contaminated clothing immediately.

Section 9: Physical and Chemical Properties

Appearance	Yellowish liquid
Odour	Faint, characteristic
Solid content	88% (±2%)
Viscosity	16500 – 17000 mPa·s
Density	1.10 – 1.15 g/cm ³
Flash point	Above 200°C (expected)
Vapour pressure	Very low at 20°C
Solubility in water	Insoluble; reacts with water, releasing carbon dioxide

Section 10: Stability and Reactivity

Reactivity	Reacts with moisture, forming polyurea and carbon dioxide.
Chemical stability	Stable when stored dry in sealed containers.
Conditions to avoid	Moisture, high temperatures.
Materials to avoid	Water, alcohols, amines, strong acids and bases.
Hazardous decomposition	Carbon oxides, nitrogen oxides, isocyanates on burning.

Section 11: Toxicological Information

Inhalation	Harmful if inhaled. May cause respiratory irritation and, in sensitised persons, asthma-like symptoms.
Skin / eye	Causes skin and eye irritation. May cause an allergic skin reaction.
Sensitisation	Diisocyanates are respiratory and skin sensitisers.
Chronic	Suspected of causing cancer by inhalation of respirable aerosol. Prolonged inhalation exposure may damage the respiratory tract.

Section 12: Ecological Information

Ecotoxicity	Reacts with water at the interface to form inert, insoluble polyurea. Low hazard to aquatic life is expected.
Precautions	Do not allow to enter drains or watercourses.

Section 13: Disposal Considerations

Uncured product	Dispose of as hazardous waste through an authorised handler, in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and local regulations. Do not pour into drains.
Cured adhesive	Allow residues to cure fully; cured material may be handled as non-hazardous waste.
Containers	Do not reseal containers holding residues and moisture.

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	Classified as hazardous: see Section 2.
Diisocyanates	Contains diisocyanates. Users should be trained in safe handling.

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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