HOT MELT ADHESIVE · SDS PER GHS

Co-Polyamide Hot Melt Adhesive — UA-PA Series (powder)

UA-8130 · UA-8250 · UA-8513

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE SUPPLIER

Product name	Co-Polyamide Hot Melt Adhesive (UA-PA Series, powder)
Product numbers	UA-8130, UA-8250, UA-8513
Chemical name	Polyamide polymer
CAS No.	63428-84-2
Product type	Solid thermoplastic adhesive, powder
Recommended use	Hot melt adhesive for coating and lamination — powder scatter, dot and paste printing, textile and foam lamination, heat-transfer coating. Industrial use only.
Uses advised against	Food-contact use without a specific migration test; medical devices; processing above 250 °C.
Supplier	Shanghai United Industry Co., Ltd
Address	Building 2, No. 315, Weichang Road, Jinshan District, Shanghai 201514, China
E-mail	info@uniteindus.com
Website	www.uniteindus.com
Emergency telephone	+86 181 1634 7574

2. HAZARDS IDENTIFICATION

The product, as supplied, is a solid thermoplastic adhesive and is not classified as hazardous under the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) or applicable transport regulations. No component is present above the relevant concentration limits of OSHA HazCom 2012 (29 CFR 1910.1200).

Potential hazards during processing:

- Molten adhesive (typically 120–235 °C) may cause thermal burns on skin and eye contact.
- Overheating (above 250 °C) may generate fumes or vapours that can irritate eyes and respiratory tract.
- Dust from powder grades may form explosible dust/air mixtures at high concentrations; avoid ignition sources.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation	Mixture: co-polyamide resin (above 99%) with minor processing additives
CAS No. (main polymer)	63428-84-2
Hazardous ingredients	None classified as hazardous above reportable limits. Exact percentages are withheld as trade secret.

4. FIRST AID MEASURES

Skin contact	For molten adhesive, cool immediately with plenty of cold water. Do not peel solidified adhesive off the skin. Seek medical attention for burns.
Eye contact	Rinse thoroughly with water for at least 15 minutes; seek medical advice.
Inhalation (fumes)	Move to fresh air. Seek medical attention if irritation persists.
Ingestion	Rinse mouth, drink 1–2 glasses of water. Do not induce vomiting. Consult a doctor if unwell.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	CO2, dry chemical powder, water spray or foam
Unsuitable media	Water jet (spreads molten material)
Hazards	Burning produces CO, CO2 and organic decomposition products
Protective equipment	Self-contained breathing apparatus and full protective clothing

6. ACCIDENTAL RELEASE MEASURES

- Wear protective equipment. Solid powder spills: sweep or collect mechanically; reuse if uncontaminated.
- Molten spill: allow to cool and solidify before removal; do not touch while hot.
- Avoid dust generation (powder grades); prevent entry into drains and watercourses.

7. HANDLING AND STORAGE

- Melt only in equipment with accurate temperature control; do not exceed the recommended processing temperature.
- Keep molten adhesive away from water — foaming and sputtering risk. Never place wet or damp material into the melt tank.
- Do not wear contact lenses when handling molten adhesive or working around hot melt equipment.
- Store in original sealed packaging, dry and ventilated, below 30 °C, away from sunlight, ignition sources and strong oxidising agents.
- Observe the shelf life stated on the Technical Data Sheet for the grade.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	Local exhaust ventilation at the melt zone or applicator
Respiratory protection	Not required under normal use; use fume extraction when overheating occurs
Hand protection	Heat-resistant gloves when handling molten adhesive or hot equipment
Eye protection	Safety glasses with side shields
Hygiene	Wash hands after handling; no eating or drinking at the workplace

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to off-white free-flowing powder
Odour	Slight, characteristic polymer odour
Melting / softening range	110–125 °C (UA-8130, UA-8250); 120–132 °C (UA-8513)

Density	0.95–1.05 g/cm³ at 20 °C (relative density); loose bulk density lower
Solubility in water	Insoluble
Solubility in solvents	Insoluble at room temperature; swellable or dispersible when molten
Flash point	Not applicable — not volatile; decomposition only at high temperature
Auto-ignition temperature	Above 300 °C (estimated)

10. STABILITY AND REACTIVITY

- **Stability:** Stable under recommended storage and processing conditions
- **Conditions to avoid:** Temperatures above 250 °C; contact with strong oxidisers
- **Hazardous decomposition products:** CO, CO2 and low-molecular hydrocarbon fragments on overheating
- **Incompatible materials:** Strong oxidising agents

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected from the solid product. Fumes from severely overheated adhesive may cause eye and respiratory irritation. No data indicate skin or respiratory sensitisation.

12. ECOLOGICAL INFORMATION

The product is a solid polymer, insoluble in water and not readily biodegradable. No known significant environmental hazard. Prevent uncontrolled release into soil and waterways.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, regional and national regulations. Clean, uncontaminated cured adhesive may be recycled where facilities exist. Contaminated packaging: dispose as non-hazardous industrial waste.

14. TRANSPORT INFORMATION

UN number	Not applicable
Proper shipping name	Not a dangerous good
Transport hazard class	None
Packing group	None
Regulations	Not regulated under IMDG, IATA-DGR, ADR/RID

15. REGULATORY INFORMATION

Not classified as hazardous according to GHS and applicable national chemical inventories. Ensure compliance with local workplace safety and environmental regulations when processing at elevated temperatures.

Inventory status	Contact us for the inventory status required in your market.
EPCRA 311/312 (US)	Physical hazards: not applicable. Health hazards: not applicable.

16. OTHER INFORMATION

Version 1.3 | Revision date 2026-11 | Supersedes v1.2 dated 2021-09-21 | Sections revised: 1, 2, 7, 9, 15, 16.

This Safety Data Sheet is compiled to the best of our current knowledge and is intended to describe the product in terms of safety requirements. It does not constitute a warranty of product properties. Because the conditions and methods of

use are beyond our control, we assume no liability for any use of this product. Users are responsible for verifying suitability and compliance with all applicable laws and regulations in their specific application.

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Product page: uniteindus.com/products/polyamide-hot-melt-powder