

Solvent-Based Waterslide Inks

SAFETY INFORMATION SUMMARY | MSDS WORKING DRAFT

Safety information summary / MSDS working draft. Contains confirmed product details and supported safety notes. Finished-product hazard classification is incomplete. This is not a complete SDS and does not replace safety documentation required for supply or transport.

01 Product and supplier

Use: Professional printing of low-temperature waterslide decals for exterior decoration.
Use restriction: Not for surfaces in direct contact with food or beverages.
Scope: Clear varnish and red, black and white inks made from this varnish by adding pigments only, as supplied before any hardener addition. **Hot-stamping oil is excluded.**
Supplier: Linkonink / Dongguan Lingheng New Materials Co., Ltd., China
Address: Tianbaoli Coatings Factory, No. 5 Wende Road, Xiaokeng Village, Liaobu Town, Dongguan, Guangdong, China
Business contact: Henry Tang | henry@linkonink.com | +86 134 1212 3095
Website: linkonink.com

Manufacturer emergency contact: Henry Tang | +86 134 1212 3095
Availability: Monday-Friday, 09:00-17:00 Beijing time (UTC+8).

02 Product range and hardener use

Product	Model	Hardener use
Waterslide ink protective varnish (clear varnish)	LH-RJ-294	Add 3% by varnish weight
Red ink	LH-RJ-WSRED	No hardener added
Black ink	LH-RJ-WSBLACK	No hardener added
White ink	LH-RJ-WSWHITE	No hardener added

LH-RJ-294 identifies the clear varnish; coloured-ink model codes are listed above. The varnish hardener is separately packaged, added before use and requires separate safety information. The 3% addition rate does not apply to the coloured inks.

03 Known appearance and water miscibility

Clear varnish: Clear, pale yellow liquid with a distinct solvent odour.
Coloured inks: Red, black or white according to the product shade.
Water miscibility: This series is not miscible with water (manufacturer statement).

Composition and safe handling

Solvent-Based Waterslide Inks

04 Composition information

Formulation of LH-RJ-294 clear varnish:

Ingredient	Identification	Weight %
Saturated polyester resin	Pure resin	50.0%
Propylene glycol monomethyl ether acetate (PMA)	CAS 108-65-6	25.0%
Xylene	CAS 1330-20-7	12.5%
Isophorone (783)	CAS 78-59-1	12.5%

Manufacturer-declared formulation by weight for the clear varnish; total 100%, excluding the separately added hardener.

Red, black and white inks: Made from the clear varnish above with the respective pigments added; no other ingredients are added. **The percentages above describe the clear varnish, not the finished pigmented inks.**

05 Known ingredient hazards

Xylene and PMA are flammable solvents. The known solvents present inhalation, skin and eye exposure concerns; control vapours and splashes. Published isophorone classification includes **H351: suspected of causing cancer**. The clear varnish contains 12.5% isophorone, which must be considered in its hazard assessment. Coloured inks also contain these base-varnish solvents; their classification additionally requires the final composition and pigment safety information. [1-3]

These ingredient-based warnings are not a complete finished-product GHS/CLP classification or label.

06 Handling and protection

Use local exhaust ventilation and avoid vapour inhalation and skin/eye contact. Exclude sparks, flames and heat; control static discharge. Wear splash goggles, protective clothing and chemical-resistant gloves selected with supplier compatibility data for these solvents. Select respiratory protection through an exposure assessment.

07 First aid

- Inhalation:** Move to fresh air and keep at rest; obtain medical advice if unwell.
- Skin:** Remove contaminated clothing and wash thoroughly with soap and water. Do not clean skin with solvents.
- Eyes:** Start rinsing immediately with water, continue rinsing, remove contact lenses if easy and obtain medical advice.
- Ingestion:** Rinse the mouth, do not induce vomiting and contact a doctor or poison centre immediately. Give nothing by mouth to an unconscious person.

Storage, emergencies and references

Solvent-Based Waterslide Inks

08 Storage and incompatibility precautions

Recommended storage: 10-25°C. **Shelf life:** 12 months in unopened original packs under recommended conditions. Keep containers closed in a ventilated area, away from heat, ignition sources and strong oxidisers. Keep separate from food and drink. Wash after handling; no eating, drinking or smoking in the work area.

Manufacturer experience with the clear varnish: No abnormal self-heating, container swelling or spontaneous gelation observed under recommended storage conditions before hardener addition.

09 Fire and spill response

Fire: Evacuate unprotected personnel and alert emergency services. Based on the known solvents, appropriate foam, dry chemical or carbon dioxide may be used. Firefighters need protective equipment and self-contained breathing apparatus; avoid smoke inhalation. [1-4]

Spill: Remove ignition sources when safe and ventilate. Trained personnel should contain and collect the liquid using inert absorbent and suitable covered waste containers. Keep it out of drains, soil and watercourses.

10 Disposal and packaging

Use an authorised waste contractor for residual varnish and coloured inks, contaminated absorbents and packaging. Do not discharge to drains. Empty containers may retain solvent: do not cut, weld or heat them.

Supply packs: 5 kg/pail, 4 pails/carton; 1 kg/can, 10 cans/carton.

11 Transport information

Transport classification: pending assessment. No transport assessment report is available yet.

12 Available version and information basis

A CAC-solvent version (2-ethoxyethyl acetate, CAS 111-15-9) is also available. It is outside the composition covered here and needs its own matching safety documentation.

SGS report SZXEC26004223401 (22 Jul 2026): BPA was not detected (ND) in the submitted varnish; detection limit 0.1 mg/kg, based on total dried sample weight. **This result applies only to the tested varnish, not the pigment-added red, black or white inks.** The report does not identify the solvent version or test flash point.

Organisation informed by Hanghua 8000-series MSDS (2015) and Nazdar 849304 SDS (2023). Their classifications and test values have not been adopted. Numbering is specific to this summary, not the full 16-section SDS structure.

[1] Merck - PMA; [2] Merck/Sigma-Aldrich - Xylene; [3] Merck - Isophorone

[4] ILO/WHO ICSC 0084 - o-Xylene (general precaution reference)

Hanghua MSDS (public government attachment) | Nazdar SDS | EU SDS format: 2020/878

SGS BPA test report