Usage instructions

Bottles, jerricans and closures in HDPE and PP from Pristius Pack LLP. Read before first use; keep with the packaging specification.

1 · Receiving and storage

- Check the delivery against the lot certificate: SKU, colour code, quantity, lot number.
- Store 5–40 °C, dry, out of direct sunlight, in the closed carton or on the stretch-wrapped pallet.
- Do not stack pallets of empty containers more than two high.
- Use within 5 years of the manufacturing date embossed on the base; the UN mark year is printed by the filler.
- Leave the dust cover in place until the container reaches the filler.

2 · Before filling

- Confirm chemical compatibility of bottle, seal and product on your own product; samples are available for that purpose.
- Confirm the closure and seal type match the UN certificate when the consignment is dangerous goods.
- Do not wash with solvents that swell HDPE (aromatics, chlorinated solvents). Compressed clean air or DI water rinse only, then dry.
- Inspect the neck sealing surface: no nicks, flash or contamination.

3 · Filling

- Fill upright, on a level surface, at atmospheric pressure.
- Fill temperature ≤ 40 °C. Cool hot products before filling; prolonged exposure at 60–80 °C deforms the wall.
- Respect the nominal volume: leave head space for thermal expansion (typically 5–8 % for liquids, more for volatile solvents).
- Gassing products (peroxides, hypochlorite, fermenting or outgassing fills) take a vented closure.

4 · Closing

- Use the Pristius closure moulded for the neck; the tamper-evident band breaks cleanly only on a matched neck.
- Seal fitted and undamaged: PTFE wad for acids, oxidisers and solvents; EPE wad for dry and non-aggressive fills; plug or inner lip where no liner may touch the product.
- Apply at the torque on the closure datasheet (torque recommendation issued with samples). Under-torqued caps leak; over-torqued caps crush the wad and strip the thread.
- Check the tamper-evident band is seated below the retaining bead and unbroken.
- Carry out a leak check on the first containers of every filling run.

5 · Labelling

- Label panels are flat; apply labels at 15–30 °C to a clean, dry surface.
- Dangerous goods: apply the UN mark year, hazard labels and marks required by the mode of transport.
- The SKU printed on carton and pallet labels is the Pristius 9-digit number; quote it on reorders.

6 · Transport and dangerous goods

- UN 3H1 certification applies to the complete pack: this bottle, this closure, this seal, closed at the stated torque, within the specific-gravity and packing-group limits on the mark.
- Transport upright in closed cartons or on pallets; secure the load.
- Pristius packaging is single-trip packaging for dangerous-goods consignments.

> Any refill or re-use is the user's responsibility after inspection and is outside the UN design-type approval.

7 · Material limits

MATERIAL	WHERE	RESISTS	LIMITS
HDPE	Bottle body, plugs	Acids, alkalis, alcohols, water, most salts; shatter-proof	Aromatic and chlorinated solvents swell it; –40 to +60 °C service
PP	Caps, TE rings, collar plugs	Acids, alkalis, hot water to 100 °C	Strong oxidisers, UV without stabiliser
LLDPE	Seal plugs, TE rings, dust covers	Flexible seal on uneven necks	Solvents, >50 °C
PTFE	Wad face in standard and bell-type caps	Practically everything	Molten alkali metals, fluorine
PVDF	Collar plugs for glass	Xylene, toluene, MSA, chloroform, acetic acid	Ketones, esters, DCM
Masterbatch	Outer layer only	Black: UV and visible light	Never in the product-contact layer

8 · Reading the UN mark

3H1	Plastic jerrican or bottle, non-removable head
X	Tested for packing groups I, II and III
1.9 / 2.5	Maximum specific gravity of the liquid; **S** = solids
250	Hydraulic test pressure, kPa
******	Year of manufacture, printed by the filler
IND/A/…	Certified in India by the Indian Institute of Packaging under DG Shipping

9 · Certified packagings

CERTIFICATE	PACKAGING	UN MARK	VALID TO
IIP 00142	ChemVault Titan 500 mL	3H1/X 1.9/250/** IND/A/43300142	Sep 2027
IIP 00143	ChemVault Titan 1 L	3H1/X 1.9/250/** IND/A/43300143	Oct 2027
IIP 00138	ChemVault Titan 2.5 L	3H1/X 1.9/250/** IND/A/43300138	Sep 2027
IIP 01021	ChemVault Titan 5 L	3H1/X 2.5/250/** IND/A/43301021	Jun 2030
IIP 01022	ChemVault Euro 550 g	3H1/X 2/S/** IND/A/43301022	Jun 2030
IIP 01023	ChemVault Euro 750 g	3H1/X 2.5/S/** IND/A/43301023	Jun 2030
IIP 01020	ChemVault Euro 1100 g	3H1/X 2.5/S/** IND/A/43301020	Jun 2030

10 · Disposal and recycling

- Containers are mono-material HDPE (body) and PP (closure), marked 02 HDPE for recycling.
- Empty and triple-rinse containers that held chemicals in accordance with local regulations before recycling; residues decide the waste classification.
- Dust covers and tamper-evident rings are LLDPE / PP and recycle with the closure stream.

11 · Documentation available

- Product datasheet per SKU · lot certificate with leak, weight, wall and drop results · resin CoA · UN design-type certificate and IIP test report · ISO 9001:2015 certificate · resin food-contact and REACH / RoHS declarations · closure torque recommendation.

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