

Safe Handling Guidelines

ROMIL Acids & Reagents detection of product vapour or condensate in polyethylene protective bag

Products packaged in plastic containers may experience transpiration of product due to elevated temperatures during transportation or storage.

Furthermore, certain products by nature of their instability may decompose to gaseous by-products and the resulting built up pressure can cause a ballooning or rupture of the container. Examples are Hydrogen Peroxide and Formic Acid. As a safety measure we fit larger such bottles with a closure featuring a venting valve. Incorrect orientation and/or elevated temperatures during transportation or storage can lead to loss of product through the vent.

To provide extra safety during transportation such products are placed in a polyethylene protective bag. As a result, product vapour (vapour/ fumes/ gas) or condensate (condensate/ mist/ droplets) may be present in the polyethylene protective bags and may cause the bag and/ or closure (cap) to discolour.

Note: the presence of product vapour, condensate or discolouration of the packaging has no impact on product quality or performance.

The appropriate **Safety Data Sheet (SDS)** should be read prior to opening the shipping package and should be fully understood prior to use of the product. Follow the recommendations outlined in the SDS. Wear recommended personal protective equipment (PPE) prior to handling these products. Ensure recommended engineering controls are in place and operating. Also ensure hazard statements, precautionary statements and first aid measures have been read and fully understood prior to opening the product. Personnel working with hazardous materials must be properly trained regarding the hazards and safe use.

For **Hydrofluoric Acid** products: DANGER! This product may be fatal if inhaled, absorbed through the skin, or swallowed. Important! Do not use or handle this product until the Hydrofluoric Acid SDS has first been read prior to opening this package and has been fully understood prior to use of the product. Make sure there is a hydrofluoric acid treatment gel or solution and a hydrofluoric acid treatment plan available prior to opening the product.

To minimise the presence of product vapour or condensate in the polyethylene protective bags it is recommended to store and transport boxes and containers upright at a temperature between 15°C (59°F) to 25°C (77°F).

If product condensate (condensate/mist/droplets) is detected:

- 1) Place bottle in the recommended engineering control (ventilation hood/ laminar flow cabinet).
- 2) Carefully remove and thoroughly rinse the bag and bottle with high purity water.
 - a. The action should be slow and deliberate as to not disperse any droplets on the bag or bottle.
- 3) After rinsing, test the pH of any residual liquid inside the bag and on the bottle.
 - a. The pH should be greater than 5. If the pH is less than 5, repeat rinsing and recheck the pH.
 - b. Continue until the pH is greater than 5.
- 4) Allow the bottle to dry or wipe with a particle-free laboratory cloth prior to use.
- 5) Ensure the cloth and any water used during rinsing are disposed of according to product disposal guidelines found in the SDS.

Safety Data Sheets are available for download from our website.

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