

IMPORTANT Product Information: Integrity, Expiration, and Handling Policies

Product integrity: is defined by its specification. To ensure the product integrity is maintained, follow the following product integrity guidelines.

Product Integrity Guidelines: *PlasmaPURE* or *PlasmaPURE Plus* High Purity Acids, when unopened and sealed, maintain the certified integrity, and product quality, for their stated certification period under the following conditions:

- Store or transport at room temperature, maximum range 15°C (59°F) to 25°C (77°F).
- Avoid exposure to sunlight or ultraviolet light sources.
- Open in a 'particle free' environment. **SCP SCIENCE** recommends a HEPA or ULPA particle filtered trace metal clean room.
 - a. *PlasmaPURE* products should be used in a minimum of Class 1000 or ISO 6 clean room conditions.
 - b. *PlasmaPURE Plus* products should be used in a minimum of Class 100 or ISO 5 clean room conditions.

Once the product has been opened and is being used in the lab, the integrity of the product can be maintained by following standard trace metal clean room contamination control procedures.

Expiration Policy: An unopened bottle of *PlasmaPURE* or *PlasmaPURE Plus* High purity acid stored according to product integrity guidelines indicated above, within the expiry period, is guaranteed to maintain the maximum specification of the product. **SCP SCIENCE's** product expiration date is included on its labels and certifications. **Do not use this product once the expiration date is reached.** The expiration date defines both the end of the product shelf life¹ and its certification. The expiration date is conditional; products must be stored and transported according to the product integrity guidelines stated above.

PlasmaPURE or *PlasmaPURE Plus* plastic bottles should be inspected regularly, specifically HDPE bottles (typically used for Nitric Acid and Hydrochloric Acid), for any evidence of change to the plastic bottle's ability to deform. The ability to deform is defined by its ductility/plasticity/malleability/embrittlement or hardening/compressibility. If any change is noticed, carefully and safely transfer or dispose of the product according to your safe handling practices and procedures. Care must be exercised when handling bottles past their expiry date as the bottle integrity may be compromised. Any product disposal must be done according to applicable regulations governing the disposal of the hazardous product.

Factors or considerations included in SCP SCIENCE's Product Expiration Date:
the product stability or integrity and storage container (bottle) material.

Safe Handling Guidelines

Material Safety Data Sheet must be read prior to opening this package and should be fully understood prior to use of the product.

- Follow the recommendations outlined in the (M)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. People 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 open the package, use or handle this product until the Hydrofluoric Acid product (M)SDS has been read and fully understood. Make sure there is a hydrofluoric acid treatment gel or solution and a hydrofluoric acid treatment plan available prior to opening the product.
- For flammable products and oxidizers: Make sure these products are stored away from heat, sparks, open flames, and other combustible materials. The suitable extinguisher, eye wash station, and shower station are available in the nearby area. People working with these materials must be properly trained regarding the hazards and safe use. The suitable personal protective equipment is also required.
- To avoid the presence of product vapor or condensate in the polyethylene protective bags it is recommended to store and transport the product at temperatures between 15° C (59° F) and 25° C (77° F).

Detection of product vapor or condensate:

- Acid bottles are placed in polyethylene protective bags to provide extra safety during transportation.
- Product vapor (fumes/gas) or condensate (mist/droplets) may be present in the polyethylene protective bags due to elevated temperatures during transportation or storage. Vapor or condensate may cause the bag and/or closure (cap) to discolor.

Note: the presence of product vapor, condensate or discoloration of the packaging has no impact on product performance.

If product 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 (M)SDS.

¹**Shelf life:** A product shelf life is defined as the valid period unopened product can be used, providing it has been transported and stored according to the guidelines above.

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