

TECHNICAL DATA SHEET**VAYLERA HYPOCHLOROUS ACID (HOCl) WIPES**

Scientific and Product Specifications | Canister and Flex Pack Formats

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1. Purpose and Scope

This Technical Data Sheet describes the formulation, physical specifications, packaging formats, handling requirements, storage conditions, and regulatory limitations of the VAYLERA hypochlorous acid wipe platform. It applies to canister and flexible-pouch configurations manufactured to an approved finished-product specification.

DOCUMENT CONTROL	This TDS does not replace the approved product label, Safety Data Sheet (SDS), Certificate of Analysis (COA), or signed finished-product specification. When documents differ, the approved label and finished-product specification control.
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2. Product Description

VAYLERA Hypochlorous Acid Wipes are pre-saturated, single-use, nonwoven wipes containing a stabilized aqueous hypochlorous acid solution. The solution is formulated without added fragrance, alcohol, or quaternary ammonium compounds. The nominal free available chlorine concentration is 200 ppm at manufacture.

Table 1. Formulation and Chemistry

ATTRIBUTE	SPECIFICATION
Active ingredient	Hypochlorous acid (HOCl)
Nominal free available chlorine	200 ppm FAC at manufacture; finished-product release limits are controlled by the approved specification
Solution pH	4.5 to 6.5
Other ingredients	Purified water and sodium chloride
Added fragrance	None
Added alcohol	None
Quaternary ammonium compounds	None added
Wipe substrate	Nonwoven synthetic spunlace fabric; lint-minimizing construction

Table 2. Finished-Product Use Classification

PRODUCT CLASSIFICATION	CONTROLLED USE
Surface-cleaning SKU	For cleaning compatible hard surfaces. Claims and directions must match the approved finished-product label.
Personal-care SKU	For cosmetic cleansing of the face, skin, or hands only when the finished product is formulated, tested, and labeled for personal-care use.
Use separation	Surface-cleaning and personal-care directions must not be interchanged. Each finished SKU requires its own approved label and supporting documentation.

3. General Performance Specifications

The specifications below apply to the base HOCl wipe platform unless the approved finished-product specification states otherwise.

Table 3. General Performance Requirements

PERFORMANCE FACTOR	REQUIREMENT
Shelf life	12 months from date of manufacture when stored in the original package within the specified temperature range and protected from direct light
Solution concentration	Nominal 200 ppm FAC at manufacture
pH range	4.5 to 6.5
Residue profile	Water-based formulation intended for low visible residue; follow the approved label for any rinse requirement
Single-use status	One wipe per use; discard after use; do not flush
Package function	Resealable package designed to limit solution evaporation and maintain wipe moisture during the labeled use period

4. Material Compatibility

The solution is generally compatible with stainless steel, many plastics, glass, ceramics, and sealed countertops. Material compatibility can vary with coating, finish, exposure frequency, contact time, and equipment design.

Table 4. Compatibility Controls

CONTROL	REQUIREMENT
Initial compatibility check	Test a small inconspicuous area before broad use
Sensitive materials	Confirm compatibility before use on unfinished wood, natural stone, leather, fabrics, specialty coatings, or reactive metals
Electronic equipment	Do not saturate switches, openings, ports, or energized components; follow the equipment manufacturer's cleaning instructions
Visible soil	Remove heavy or visible soil when required by the product label or facility procedure
Chemical mixing	Do not mix with acids, ammonia, oxidizers, cleaners, or other chemicals; use only as supplied

5. Safety and Handling

No special personal protective equipment is anticipated for routine use as directed. Workplace users must follow the approved label, current SDS, and facility procedures. If irritation occurs, discontinue use. For unintended eye exposure, rinse with clean water. Obtain medical advice if symptoms persist.

**SAFETY
LIMITATION**

A skin-cleansing direction applies only to a personal-care SKU. A surface-cleaning SKU must not be used on the body unless its approved label specifically authorizes that use.

6. Directions for Use

Table 5. General Wipe Application Sequence

STEP	DIRECTION
1. Open	Open the package without damaging the moisture-control closure
2. Remove	Remove one wipe and unfold completely
3. Apply	Wipe only the surface or skin area authorized by the finished-product label
4. Maintain wetness	For a labeled antimicrobial application, keep the surface visibly wet for the exact label contact time
5. Finish	Allow the treated surface to air dry unless the label or equipment instructions require another step
6. Reseal	Close the package completely after each use
7. Dispose	Discard after one use; do not flush

7. Packaging Specifications

Dimensions are approximate and may change with the approved production configuration. The purchase order and finished-product specification control wipe count, package dimensions, case pack, and closure system.

Table 6. Canister Configuration

CANISTER ATTRIBUTE	SPECIFICATION
Dispensing format	Rigid cylindrical plastic canister with center-pull dispensing
Standard VAYLERA wipe count	80 wipes per canister
Wipe dimensions	Approximately 6 x 8 in (15.2 x 20.3 cm)
Canister dimensions	Approximately 4.7 in diameter x 6.7 in height (12 x 17 cm)
Closure	Hinged flip-top lid with resealable dispensing port
Primary format use	Stationary and higher-frequency wiping stations
Case pack	Controlled by approved production order

Table 7. Flex Pack Configuration

FLEX PACK ATTRIBUTE	SPECIFICATION
Dispensing format	Flexible resealable pouch; closure configuration per approved packaging specification
Typical wipe count	30 wipes per pouch; alternate counts subject to production confirmation
Wipe dimensions	Approximately 6 x 7 in (15.2 x 17.8 cm)
Pouch dimensions	Approximately 5.5 x 7.5 in (14 x 19 cm), flat-pack format
Closure	Resealable moisture-control closure
Primary format use	Portable and on-the-go applications
Case pack	Controlled by approved production order

8. Packaging Integrity and Release Controls

Finished-product release should include verification of wipe count, substrate dimensions, solution fill, package seal integrity, dispensing function, label accuracy, and package coding. The release record should identify the lot number and manufacturing date.

PACKAGING NOTE Approximate dimensions in this TDS are planning values. Signed packaging drawings and production specifications control commercial manufacture.

9. Storage and Stability

Table 8. Storage Requirements

STORAGE FACTOR	REQUIREMENT
Storage temperature	40 F to 80 F (4 C to 27 C)
Light exposure	Protect from direct sunlight and prolonged ultraviolet exposure
Package condition	Keep the canister or pouch tightly closed between uses
Freeze / thaw	Avoid freezing; product performance may degrade after freezing and thawing
Elevated temperature	Do not store for prolonged periods above the specified temperature range
Shelf-life basis	12 months when manufactured to specification and stored as directed

10. Quality and Documentation Requirements

Table 9. Finished-Product Documentation

DOCUMENT / CONTROL	FUNCTION
Release specification	Defines acceptable FAC, pH, appearance, fill quantity, substrate, packaging, and labeling requirements
Certificate of Analysis	Reports lot-specific test results and release status
Safety Data Sheet	Controls workplace hazard communication and safety information
Approved product label	Controls claims, directions, use sites, contact time, warnings, and disposal instructions
Traceability	Finished product should carry lot identification and manufacturing or expiration coding as applicable

11. Regulatory and Labeling Position

EPA antimicrobial claims. Statements such as "kills," "disinfects," or "sanitizes," including claims against named microorganisms, require appropriate EPA registration and must match the approved label. This TDS does not independently authorize or expand antimicrobial claims.

FDA personal-care classification. Wipes intended only to cleanse or moisturize skin are generally regulated as cosmetics. Disease-treatment, wound-healing, or structure/function claims can change the regulatory classification and require separate review.

USDA Organic representation. The USDA Organic seal or a certified-organic finished-product claim must not be used unless VAYLERA holds product-specific certification and the final label has been reviewed by an accredited certifying agent.

12. References and Contact

1. [U.S. Environmental Protection Agency - Pesticide Labeling Questions and Answers](#)
2. [U.S. Food and Drug Administration - Disposable Wipes](#)
3. [U.S. Food and Drug Administration - Is It a Cosmetic, a Drug, or Both?](#)
4. [USDA Agricultural Marketing Service - Labeling Organic Products](#)

VAYLERA TECHNICAL CONTACT	DOCUMENT CONTROL
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