

TOTO®

Eco Drake® PVC-Free

CST744ET90

Created with elegant simplicity, the Eco Drake High Efficiency Toilet combines contemporary design with innovations in style and water conservation. Quietly powerful and beautifully designed, Eco Drake consumes less water and performs above and beyond your expectations.



Performance Dashboard

Features & functionality

- E-max® Flushing System (1.28GPF / 4.8LPF)
- Wide 3" flush valve is 125% larger than conventional 2" flush valves.
- Wider 2-1/8" computer designed fully glazed trapway
- Siphon jet flushing
- Contemporary, high profile design
- Large water surface
- 12" Rough-In
- Upgrade with SoftClose® seat, or a Washlet®

Visit TOTO for more product specifications

CSI MasterFormat™ #21 41 13.13

Environmental performance

Improved by:

- Lower water use
- 50% of all electricity from renewable resources
- Kiln exhaust heat reused to power product dryers
- Upcycling of post industrial porcelain waste into ceramic floor tile

Certifications & rating systems:

- WaterSense® certified
- Declare™ label
- CALGreen® compliant



TOTO PeoplePlanetWater Smart Fact:
The Drake High Efficiency Toilet employs the E-Max flushing system, a simple and quiet solution for effectively flushing, offering an additional water savings of 20%.



Material Health Overview

Evaluation program: Declare

Declare labels are issued to products disclosing ingredient inventory, sourcing and end of life options. Declare labels are based on the Manufacturers Guide to Declare, administered by the International Living Future Institute.

How it works

Material ingredients are inventoried and screened against the **Living Building Challenge** (LBC) Red List which represents the 'worst in class' materials, chemicals, and elements known to pose serious risks to human health and the greater ecosystem. The Declare product database and label are used to select products that meet the Living Building Challenge's stringent materials requirements, streamlining the materials specification and certification process.

How this rating was achieved

Declare level

'Living Building Challenge Compliant' is achieved when the product contains Red List ingredients that have been given a temporary exception by the Living Building Challenge due to current market limitations.

What's in the product and why

The ceramic body and glaze makes up ~92% of the total mass of the toilet. Therefore, manufacturing and transportation of the ceramic create the greatest human health impacts when compared to the overall manufacture of the entire toilet. *By specifying an Eco Drake toilet manufactured in the North America, the consumer helps mitigate these human health impacts.*

Red List materials

The toilet trip lever handle is plated with chrome (Hexavalent Chromium VI). Chromium material is used as a decorative finish in applications where corrosion-resistance and durability are required. During the chrome plating process health hazards have been identified and are managed according to the OSHA Guidelines. Process controls are used to protect the environment and the production workers wear personal protection equipment. After the plating process the chrome surface is inert and does not pose any health risks. The trip lever in the final form does not represent any hazards to the user. TOTO continues to investigate alternative finishes in order to reduce and/or eliminate Chromium VI on the toilet trip levers.

Where it goes at the end of its life

TOTO encourages consumers to recycle their used toilet and toilet parts. Contact your local municipality for recycling programs.

Assessment scope and results

Content inventory: All ingredients identified by name and CAS #
Inventory threshold: 100 ppm

Declaration status:

The Declare product database and label are used to select products that meet the LBC's stringent materials requirements, streamlining the materials specification and certification process.

- LBC Red List Free ?
- LBC Compliant ?
- Declared ?

● Eco Drake® PVC-Free



Click on each label to see the full declaration

How we're making it healthier

PVC-Free versions of the Eco Drake do not use parts containing PVC (Polyvinyl Chloride). The manufacture of PVC requires vinyl chloride, as well as other chemicals such as plasticizers and phthalates, which give the material an elastomeric or rubber-like characteristic. The primary health concern is during the production process when the raw material components are in a powder or pelletized form. If inhaled or ingested the results can be toxic and potentially carcinogenic. *In the final form, materials are inert and not a hazard to the users of the toilet.*

As part of TOTO's efforts to reduce health impacts, PVC parts have been removed and replaced with materials of compatible functional strength and chemical resistance. Additionally, these parts are sourced within the continental United States. While there are no legislative or regulatory mandates to remove this material from a product, as part of our goal to mitigate adverse health impacts, TOTO has moved beyond compliance by voluntarily eliminating this compound.

Goals and plans for improvement:

- Utilize alternative materials to PVC, removing this compound from tank parts in all TOTO models.
- With no compromise to beauty, functionality, or durability, TOTO intends to offer alternative finishes for trip levers that do not require Chromium VI.

References

Declare

TOTO USA, Declare label for Eco Drake CST744ET90

Manufacturer's Guide to Declare

A comprehensive guide providing information about the program, the assessment methodology, how to submit material data to obtain a Declare label and how they are used to meet the Health & Happiness and Materials Petals of the Living Building Challenge.

Rating systems

LEED v4, Building product disclosure and optimization Material Ingredients

Credit values:

- Option 1. Material ingredient reporting 1 product
- Option 2. Material ingredient optimization 1 product

Living Building Challenge Living Building Challenge 3.0



Materials petal:

- Imperative 10. Red List Free
- Imperative 12. Responsible Industry
- Imperative 13. Living Economy Sourcing

SM Material Health Overview™

VERIFICATION

Evaluation

3rd party verified

Self-declared



Validity: 10/30/15 – 10/30/18

TOT – 10/30/2015 – MHO-02

The material health evaluation is self-declared and done in accordance with the Manufacturers Guide to Declare.

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