

TOTO®

Ultramax® PVC-Free

MS854204ET90 - Eco Ultramax
MS604204CEFGT90 - Ultramax II
MS604204CUFGT90 - Ultramax II 1G®

Beautifully engineered in a single unit, the Ultramax HET incorporates thoughtful innovation with simple elegant design and TOTO's dedication to respecting water. The Ultramax HET offers sleek lines, is simple to install, and features performance design that focuses on your comfort. Choose the Eco Ultramax which utilizes TOTO's E-max flushing system or the Universal Height Ultramax II with TOTO's Tornado Flush™ system, available in 1.28gpf or 1G options.



Performance Dashboard

Features & functionality

- Wide 3" flush valve is 125% larger than conventional 2" flush valves
- Wide 2-1/8" computer designed, fully glazed trapway
- Sleek, high profile one-piece toilet
- Complete with SoftClose® seat
- Large water surface
- 12" Rough-in
- ADA compliant (Ultramax II and Ultramax II 1G)

Visit TOTO for more product specifications



CSI MasterFormat™ #22 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
- CALGreen® compliant
- Contributes to earning credits in LEED®



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

Manufacturing in the United States means that robust human labor, safety and environmental rules and regulations were followed. Local sourcing of raw materials means that less smog and air pollution are generated as a result of transport. The ceramic body and glaze makes up ~92-93% 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 Ultramax toilet manufactured in the United States, 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.

How we're making it healthier

PVC-Free versions of the Ultramax do not use parts containing PVC (Polyvinyl Chloride), a plastic commonly used within the plumbing industry. 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. In addition, these alternative parts are sourced within the continental United States. It should be noted that there are no legislative or regulatory mandates to remove this material from a product, however, as part of our goal to mitigate adverse health impacts, TOTO has decided to move 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.

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 Ultramax PVC-Free

● Ultramax II PVC-Free

● Ultramax II 1G PVC-Free



Click on each label to see the full declaration

References

Declare

- TOTO USA, Declare label for Eco Ultramax MS854204ET90
- TOTO USA, Declare label for Ultramax II MS604204CEFGT90
- TOTO USA, Declare label for Ultramax II 1G® MS604204CUFGT90

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: 09/17/15 – 09/17/18
TOT – 09/17/2015 – MHO-01

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

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