

September 30, 2024

Share Class | Ticker

Premier | TOPXX

Federated Hermes Treasury Obligations Fund

A Portfolio of Federated Hermes Money Market Obligations Trust

Before you invest, you may want to review the Fund's Prospectus, which contains more information about the Fund and its risks. You can find the Fund's Prospectus and other information about the Fund, including the Statement of Additional Information and most recent reports to shareholders, online at FederatedHermes.com/us/FundInformation. You can also get this information at no cost by calling 1-800-341-7400, by sending an email request via Contact Us on FederatedHermes.com/us, or from a financial intermediary through which Shares of the Fund may be bought or sold. The Fund's Prospectus and Statement of Additional Information, both dated September 30, 2024, are incorporated by reference into this Summary Prospectus.

A money market mutual fund seeking to provide current income consistent with stability of principal by investing in a portfolio of U.S. Treasury securities maturing in 397 days or less, and repurchase agreements collateralized fully by U.S. Treasury securities.

As with all mutual funds, the Securities and Exchange Commission (SEC) has not approved or disapproved these securities or passed upon the adequacy of this Prospectus. Any representation to the contrary is a criminal offense.

Not FDIC Insured • May Lose Value • No Bank Guarantee

Fund Summary Information – Premier Shares

Federated Hermes Treasury Obligations Fund (the “Fund”)

RISK/RETURN SUMMARY: INVESTMENT OBJECTIVE

The Fund is a money market fund that seeks to maintain a stable net asset value (NAV) of \$1.00 per Share. The Fund’s investment objective is to provide current income consistent with stability of principal.

RISK/RETURN SUMMARY: FEES AND EXPENSES

This table describes the fees and expenses that you may pay if you buy, hold and sell Premier Shares (PRM) of the Fund. **You may pay other fees, such as brokerage commissions and other fees to financial intermediaries, which are not reflected in the tables and examples below.**

Shareholder Fees (fees paid directly from your investment)

| | PRM |
|--|------|
| Maximum Sales Charge (Load) Imposed on Purchases (as a percentage of offering price)..... | None |
| Maximum Deferred Sales Charge (Load) (as a percentage of original purchase price or redemption proceeds, as applicable)..... | None |
| Maximum Sales Charge (Load) Imposed on Reinvested Dividends (and other Distributions) (as a percentage of offering price)..... | None |
| Redemption Fee (as a percentage of amount redeemed, if applicable) | None |
| Exchange Fee | None |

Annual Fund Operating Expenses (expenses that you pay each year as a percentage of the value of your investment)

| | PRM |
|--|--------------------|
| Management Fee ¹ | 0.15% |
| Distribution (12b-1) Fee..... | None |
| Other Expenses..... | 0.08% ² |
| Total Annual Fund Operating Expenses ¹ | 0.23% |
| Fee Waivers and/or Expense Reimbursements ^{1,3} | (0.08)% |
| Total Annual Fund Operating Expenses After Fee Waivers and/or Expense Reimbursements ... | 0.15% |

1 The Management Fee, Total Annual Fund Operating Expenses and Fee Waivers and/or Expense Reimbursements have been restated to reflect current fees due to a reduction in the stated gross Management Fee for the Fund effective October 1, 2023.

2 The Fund may incur and pay certain service fees (shareholder services/account administration fees) on its PRM class of up to a maximum of 0.25%. No such fees are currently incurred and paid by the PRM class. The PRM class of the fund will not incur and pay such fees until such time as approved by the Fund’s Board of Trustees (the “Trustees”).

3 The Adviser and certain of its affiliates on their own initiative have agreed to waive certain amounts of their respective fees and/or reimburse expenses. Total annual fund operating expenses (excluding acquired fund fees and expenses, interest expense, extraordinary expenses and proxy-related expenses, if any) paid by the Fund's PRM class (after the voluntary waivers and/or reimbursements) will not exceed 0.15% (the "Fee Limit") up to but not including the later of (the "Termination Date"): (a) October 1, 2025; or (b) the date of the Fund's next effective Prospectus. While the Adviser and its affiliates currently do not anticipate terminating or increasing these arrangements prior to the Termination Date, these arrangements may only be terminated, or the Fee Limit increased, prior to the Termination Date with the agreement of the Trustees.

Example

This Example is intended to help you compare the cost of investing in the Fund with the cost of investing in other mutual funds.

The Example assumes that you invest \$10,000 for the time periods indicated and then redeem or hold all of your Shares at the end of those periods. The Example also assumes that your investment has a 5% return each year and that operating expenses remain the same. The Example does not reflect sales charges (loads) on reinvested dividends. If these sales charges (loads) were included, your costs would be higher. Although your actual costs and returns may be higher or lower, based on these assumptions your costs would be:

| | |
|----------|-------|
| 1 Year | \$ 24 |
| 3 Years | \$ 74 |
| 5 Years | \$130 |
| 10 Years | \$293 |

RISK/RETURN SUMMARY: INVESTMENTS, RISKS AND PERFORMANCE

What are the Fund's Main Investment Strategies?

The Fund invests in a portfolio of U.S. Treasury securities maturing in 397 days or less and repurchase agreements collateralized fully by U.S. Treasury securities. The Fund may also hold cash.

In pursuing its investment objective and implementing its investment strategies, the Fund will comply with Rule 2a-7 under the Investment Company Act of 1940 ("Rule 2a-7").

The Fund will operate as a "government money market fund," as such term is defined in or interpreted under Rule 2a-7 under the Investment Company Act of 1940, as amended (the "1940 Act"). "Government money market funds" are required to invest at least 99.5% of their total assets in: (i) cash; (ii) securities issued or guaranteed by the United States or certain U.S. government agencies or instrumentalities; and/or (iii) repurchase agreements that are collateralized fully. Government money market funds are not required to adopt a liquidity fee framework.

The Fund will invest its assets so that at least 80% of its net assets (plus any borrowings for investment purposes) are invested in Treasury investments. The Fund will notify shareholders at least 60 days in advance of any change in its investment policy that would enable the Fund to invest, under normal circumstances, less than 80% of its net assets (plus any borrowings for investment purposes) in Treasury investments.

What are the Main Risks of Investing in the Fund?

All mutual funds take investment risks. Therefore, even though the Fund is a money market fund that seeks to maintain a stable NAV, it is possible to lose money by investing in the Fund. The primary factors that may negatively impact the Fund's ability to maintain a stable NAV, delay the payment of redemptions by the Fund, or reduce the Fund's daily dividends include:

- **Interest Rate Risk.** Prices of fixed-income securities generally fall when interest rates rise. Recent and potential future changes in monetary policy made by central banks and/or their governments are likely to affect the level of interest rates. Very low or negative interest rates magnify interest rate risk. During periods when interest rates are low or there are negative interest rates, the Fund's yield (and total return) also is likely to be lower or the Fund may be unable to maintain a positive return, or yield, or a stable NAV.
- **Counterparty Credit Risk.** A party to a transaction involving the Fund may fail to meet its obligations. This could cause the Fund to lose money or to lose the benefit of the transaction or prevent the Fund from selling or buying other securities to implement its investment strategies.
- **Risk Associated with Investing Share Purchase Proceeds.** On days during which there are net purchases of Fund Shares, the Fund must invest the proceeds at prevailing market yields or hold cash. If the Fund holds cash, or if the yield of the securities purchased is less than that of the securities already in the portfolio, the Fund's yield will likely decrease. Conversely, net purchases on days on which short-term yields rise will likely cause the Fund's yield to increase. In the event of significant changes in short-term yields or significant net purchases, the Fund retains the discretion to close to new investments. However, the Fund is not required to close, and no assurance can be given that this will be done in any given circumstance.
- **Risk Associated with use of Amortized Cost.** In the unlikely event that the Fund's Board of Trustees ("Board") were to determine, pursuant to Rule 2a-7, that the extent of the deviation between the Fund's amortized cost per Share and its market-based NAV per Share may result in material dilution or other unfair results to shareholders, the Board will cause the Fund to take such action as it deems appropriate to eliminate or reduce to the extent practicable such dilution or unfair results.
- **Additional Factors Affecting Yield.** There is no guarantee that the Fund will provide a certain level of income or that any such income will exceed the rate of inflation. Further, the Fund's yield will vary. Periods of very low or negative interest rates impact, in a negative way, the Fund's ability to maintain a positive return, or yield, or pay dividends to Fund shareholders.

- **Risk Related to the Economy.** The value of the Fund’s portfolio may decline in tandem with a drop in the overall value of the markets in which the Fund invests and/or other markets. Economic, political and financial conditions, industry or economic trends and developments or public health risks, such as epidemics or pandemics, may, from time to time, and for varying periods of time, cause the Fund to experience volatility, illiquidity, shareholder redemptions, or other potentially adverse effects.
- **Technology Risk.** The Adviser uses various technologies in managing the Fund, consistent with its investment objective(s) and strategy described in this Prospectus. For example, proprietary and third-party data and systems are utilized to support decision making for the Fund. Data imprecision, software or other technology malfunctions, programming inaccuracies and similar circumstances may impair the performance of these systems, which may negatively affect Fund performance.

You could lose money by investing in the Fund. Although the Fund seeks to preserve the value of your investment at \$1.00 per share, it cannot guarantee it will do so. An investment in the Fund is not a bank account and is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. The Fund’s sponsor is not required to reimburse the Fund for losses, and you should not expect that the sponsor will provide financial support to the Fund at any time, including during periods of market stress.

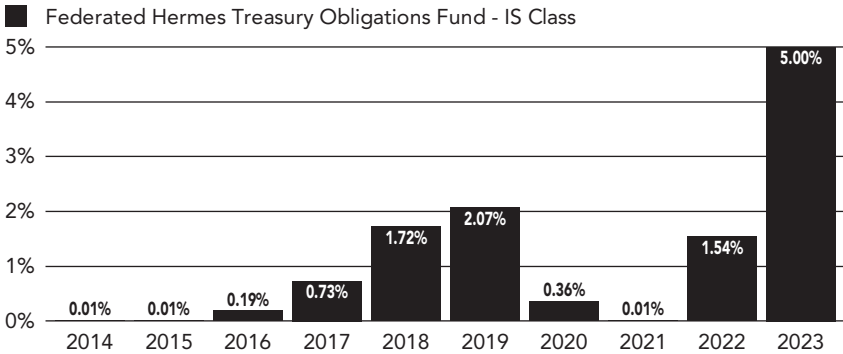
PERFORMANCE: BAR CHART AND TABLE

Risk/Return Bar Chart

The total returns shown below are for an existing class of shares, Institutional Shares (IS), offered by the Fund. The total returns for the IS class are disclosed below because the Fund’s Premier Shares (PRM) commenced operations on July 1, 2023 and have not yet completed their first calendar year of operations as of the date of this Prospectus. The total returns for the PRM class would be substantially similar to the annual returns for the IS class over the same period because the classes are invested in the same portfolio of securities and would differ only to the extent the classes do not have the same expenses and, where applicable, sales loads/charges imposed on the purchase and redemption of those classes.

The bar chart and performance table below reflect historical performance data for the Fund and are intended to help you analyze the Fund’s investment risks in light of its historical returns. The bar chart shows the variability of the Fund’s IS class total returns on a calendar year-by-year basis. The Average Annual Total Return table shows returns *averaged* over the stated periods. *The Fund’s performance will fluctuate, and past performance (before and after taxes) is not necessarily an indication of future results.* Updated performance

information for the Fund is available under the “Products” section at FederatedHermes.com/us or by calling 1-800-341-7400.



The Fund’s IS class total return for the six-month period from January 1, 2024 to June 30, 2024, was 2.61%.

Within the periods shown in the bar chart, the Fund’s IS class highest quarterly return was 1.32% (quarter ended December 31, 2023). Its lowest quarterly return was 0.00% (quarter ended December 31, 2021).

Average Annual Total Return Table

The following table represents the Fund’s IS class Average Annual Total Returns for the calendar period ended December 31, 2023.

| Share Class | 1 Year | 5 Years | 10 Years |
|-------------|--------|---------|----------|
| IS: | 5.00% | 1.78% | 1.15% |

The Fund’s IS class 7-Day Net Yield as of December 31, 2023 was 5.22%. You may go to FederatedHermes.com/us or call the Fund at 1-800-341-7400 for the current 7-Day Net Yield.

FUND MANAGEMENT

The Fund’s Investment Adviser is Federated Investment Management Company.

PURCHASE AND SALE OF FUND SHARES

The minimum initial investment amount for the Fund’s PRM class is generally \$5 million and there is no minimum subsequent investment amount. There is no minimum initial or subsequent investment amount required for employer-sponsored retirement plans; however, such accounts remain subject to the Fund’s policy on “Accounts with Low Balances” as discussed later in this Prospectus. Certain types of accounts are eligible for lower minimum investments. The minimum investment amount for Systematic Investment Programs is \$50.

Financial intermediaries may impose higher or lower minimum investment requirements on their customers than those imposed by the Fund. If an intermediary's aggregate account (omnibus account) meets the Fund's investment minimum requirements, there is no minimum requirement for the underlying sub-accounts. Keep in mind that financial intermediaries may charge you fees for their services in connection with your Share transactions.

You may purchase, redeem or exchange Shares of the Fund on any day the New York Stock Exchange (NYSE) is open. Shares may be purchased through a financial intermediary or directly from the Fund, by wire or by check. Please note that certain purchase restrictions may apply. Redeem or exchange Shares through a financial intermediary or directly from the Fund by telephone at 1-800-341-7400 or by mail.

TAX INFORMATION

The Fund's distributions are taxable as ordinary income or capital gains except when your investment is through a 401(k) plan, an Individual Retirement Account or other tax-advantaged investment plan.

PAYMENTS TO BROKER-DEALERS AND OTHER FINANCIAL INTERMEDIARIES

If you purchase the Fund through a broker-dealer or other financial intermediary (such as a bank), the Fund and/or its related companies may pay the intermediary for the sale of Fund Shares and related services. These payments may create a conflict of interest by influencing the broker-dealer or other intermediary and your salesperson to recommend the Fund over another investment. Ask your salesperson or visit your financial intermediary's website for more information.



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Contact us at [FederatedHermes.com/us](https://www.federatedhermes.com/us)
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Federated Securities Corp., Distributor

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