



Cyberscope

# Audit Report

## **ButterFinance**

August 2022

Type       BEP20

Network     BSC

Address     0xa8C2851dB5E503129E4234DB7566e91d7D82B784

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## Contract Review

|                         |                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contract Name</b>    | ButterToken                                                                                                                                             |
| <b>Compiler Version</b> | v0.8.4+commit.c7e474f2                                                                                                                                  |
| <b>Optimization</b>     | 200 runs                                                                                                                                                |
| <b>Explorer</b>         | <a href="https://bscscan.com/token/0xa8C2851dB5E503129E4234DB7566e91d7D82B784">https://bscscan.com/token/0xa8C2851dB5E503129E4234DB7566e91d7D82B784</a> |
| <b>Symbol</b>           | BUTTER                                                                                                                                                  |
| <b>Decimals</b>         | 18                                                                                                                                                      |
| <b>Total Supply</b>     | 10,000,000                                                                                                                                              |
| <b>Domain</b>           | <a href="https://www.butterfinance.io">https://www.butterfinance.io</a>                                                                                 |

## Audit Updates

|                      |                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Initial Audit</b> | 23rd August 2022<br><a href="https://github.com/cyberscope-io/audits/blob/main/butter/v1/audit.pdf">https://github.com/cyberscope-io/audits/blob/main/butter/v1/audit.pdf</a> |
| <b>Corrected</b>     | 26th August 2022                                                                                                                                                              |

## Source Files

| Filename                                                          | SHA256                                                           |
|-------------------------------------------------------------------|------------------------------------------------------------------|
| @openzeppelin/contracts/access/Ownable.sol                        | 9353af89436556f7ba8abb3f37a6677249aa4df6024fbfaa94f79ab2f44f3231 |
| @openzeppelin/contracts/token/ERC20/ERC20.sol                     | 5031430cc2613c32736d598037d3075985a2a09e61592a013dbd09a5bc2041b8 |
| @openzeppelin/contracts/token/ERC20/extensions/ERC20Burnable.sol  | 0344809a1044e11ece2401b4f7288f414ea41fa9d1dad24143c84b737c9fc02e |
| @openzeppelin/contracts/token/ERC20/extensions/IERC20Metadata.sol | af5c8a77965cc82c33b7ff844deb9826166689e55dc037a7f2f790d057811990 |
| @openzeppelin/contracts/token/ERC20/IERC20.sol                    | 94f23e4af51a18c2269b355b8c7cf4db8003d075c9c541019eb8dcf4122864d5 |
| @openzeppelin/contracts/utils/Context.sol                         | 1458c260d010a08e4c20a4a517882259a23a4baa0b5bd9add9fb6d6a1549814a |
| contracts/ButterToken.sol                                         | 76779abeee2785bfe89295c57f28e6ff3d65ca22c3614e9efe0082e64835e964 |

# Contract Analysis

● Critical ● Medium ● Minor / Informative ● Pass

| Severity | Code | Description                        | Status |
|----------|------|------------------------------------|--------|
| ●        | ST   | Stops Transactions                 | Passed |
| ●        | OCTD | Transfers Contract's Tokens        | Passed |
| ●        | OTUT | Transfers User's Tokens            | Passed |
| ●        | ELFM | Exceeds Fees Limit                 | Passed |
| ●        | ULTW | Transfers Liquidity to Team Wallet | Passed |
| ●        | MT   | Mints Tokens                       | Passed |
| ●        | BT   | Burns Tokens                       | Passed |
| ●        | BC   | Blacklists Addresses               | Passed |

# Contract Diagnostics

● Critical   ● Medium   ● Minor / Informative

| Severity | Code | Description                                | Status     |
|----------|------|--------------------------------------------|------------|
| ●        | L04  | Conformance to Solidity Naming Conventions | Unresolved |

## L04 - Conformance to Solidity Naming Conventions

|                    |                               |
|--------------------|-------------------------------|
| <b>Criticality</b> | minor / informative           |
| <b>Location</b>    | contracts/ButterToken.sol#L21 |
| <b>Status</b>      | Unresolved                    |

### Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow \_ at the beginning of the mixed\_case match for private variables and unused parameters.

```
newTax
```

### Recommendation

Follow the Solidity naming convention.

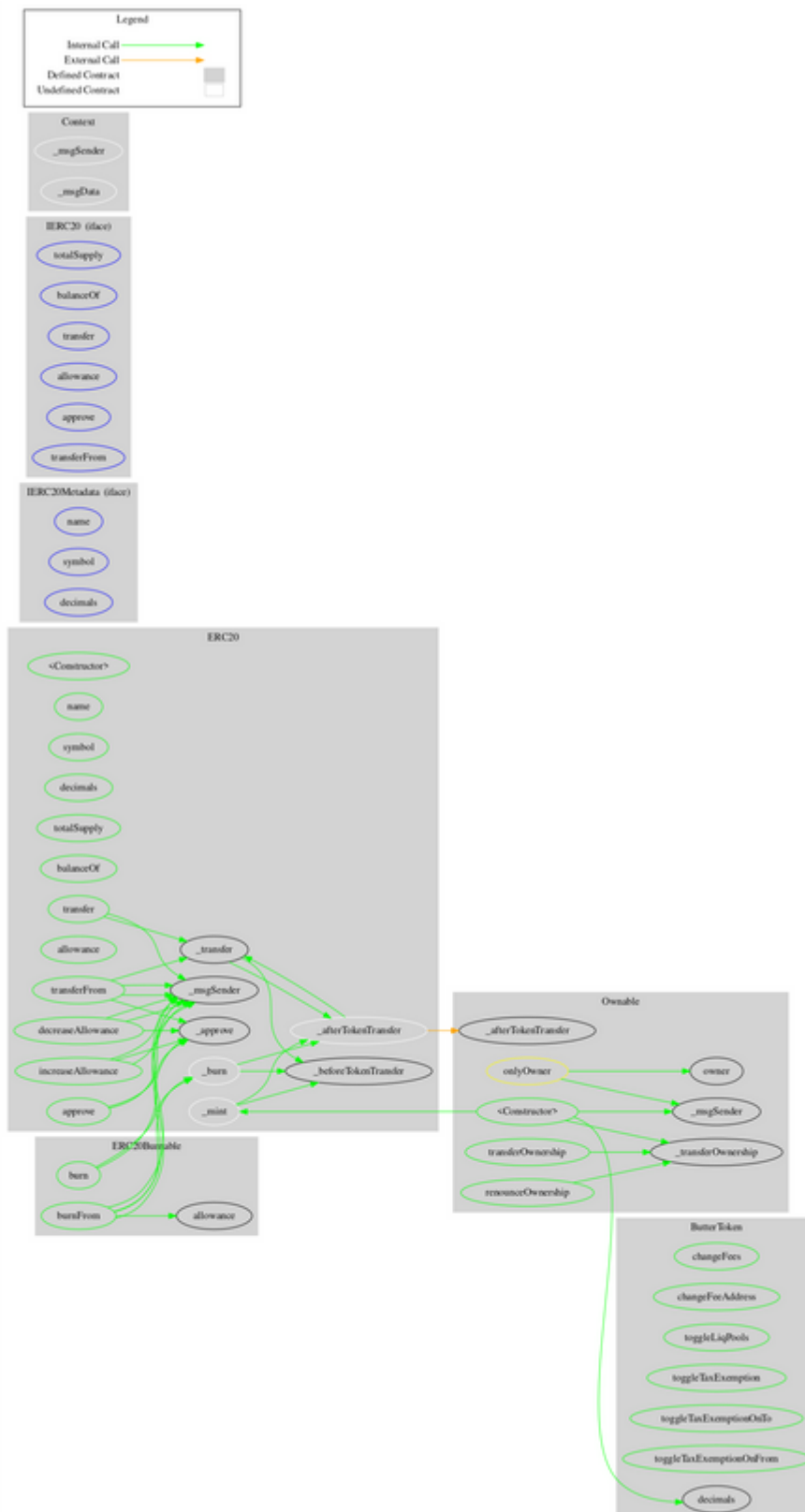
<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>.

# Contract Functions

| Contract       | Type                 | Bases                                     |            |           |
|----------------|----------------------|-------------------------------------------|------------|-----------|
|                | Function Name        | Visibility                                | Mutability | Modifiers |
|                |                      |                                           |            |           |
| <b>Ownable</b> | Implementation       | Context                                   |            |           |
|                | <Constructor>        | Public                                    | ✓          | -         |
|                | owner                | Public                                    |            | -         |
|                | renounceOwnership    | Public                                    | ✓          | onlyOwner |
|                | transferOwnership    | Public                                    | ✓          | onlyOwner |
|                | _transferOwnership   | Internal                                  | ✓          |           |
|                |                      |                                           |            |           |
| <b>ERC20</b>   | Implementation       | Context,<br>IERC20,<br>IERC20Met<br>adata |            |           |
|                | <Constructor>        | Public                                    | ✓          | -         |
|                | name                 | Public                                    |            | -         |
|                | symbol               | Public                                    |            | -         |
|                | decimals             | Public                                    |            | -         |
|                | totalSupply          | Public                                    |            | -         |
|                | balanceOf            | Public                                    |            | -         |
|                | transfer             | Public                                    | ✓          | -         |
|                | allowance            | Public                                    |            | -         |
|                | approve              | Public                                    | ✓          | -         |
|                | transferFrom         | Public                                    | ✓          | -         |
|                | increaseAllowance    | Public                                    | ✓          | -         |
|                | decreaseAllowance    | Public                                    | ✓          | -         |
|                | _transfer            | Internal                                  | ✓          |           |
|                | _mint                | Internal                                  | ✓          |           |
|                | _burn                | Internal                                  | ✓          |           |
|                | _approve             | Internal                                  | ✓          |           |
|                | _beforeTokenTransfer | Internal                                  | ✓          |           |
|                | _afterTokenTransfer  | Internal                                  | ✓          |           |

|                       |                          |                               |   |           |
|-----------------------|--------------------------|-------------------------------|---|-----------|
|                       |                          |                               |   |           |
| <b>ERC20Burnable</b>  | Implementation           | Context, ERC20                |   |           |
|                       | burn                     | Public                        | ✓ | -         |
|                       | burnFrom                 | Public                        | ✓ | -         |
|                       |                          |                               |   |           |
| <b>IERC20Metadata</b> | Interface                | IERC20                        |   |           |
|                       | name                     | External                      |   | -         |
|                       | symbol                   | External                      |   | -         |
|                       | decimals                 | External                      |   | -         |
|                       |                          |                               |   |           |
| <b>IERC20</b>         | Interface                |                               |   |           |
|                       | totalSupply              | External                      |   | -         |
|                       | balanceOf                | External                      |   | -         |
|                       | transfer                 | External                      | ✓ | -         |
|                       | allowance                | External                      |   | -         |
|                       | approve                  | External                      | ✓ | -         |
|                       | transferFrom             | External                      | ✓ | -         |
|                       |                          |                               |   |           |
| <b>Context</b>        | Implementation           |                               |   |           |
|                       | _msgSender               | Internal                      |   |           |
|                       | _msgData                 | Internal                      |   |           |
|                       |                          |                               |   |           |
| <b>ButterToken</b>    | Implementation           | ERC20, ERC20Burnable, Ownable |   |           |
|                       | <Constructor>            | Public                        | ✓ | ERC20     |
|                       | changeFees               | Public                        | ✓ | onlyOwner |
|                       | changeFeeAddress         | Public                        | ✓ | onlyOwner |
|                       | toggleLiqPools           | Public                        | ✓ | onlyOwner |
|                       | toggleTaxExemption       | Public                        | ✓ | onlyOwner |
|                       | toggleTaxExemptionOnTo   | Public                        | ✓ | onlyOwner |
|                       | toggleTaxExemptionOnFrom | Public                        | ✓ | onlyOwner |
|                       | _afterTokenTransfer      | Internal                      | ✓ |           |

# Contract Flow



## Domain Info

|                               |                                                                     |
|-------------------------------|---------------------------------------------------------------------|
| <b>Domain Name</b>            | butterfinance.io                                                    |
| <b>Registry Domain ID</b>     | 539fd7c1c13743d29d0e210b5b84e7cf-DONUTS                             |
| <b>Creation Date</b>          | 2022-04-07T17:32:16Z                                                |
| <b>Updated Date</b>           | 2022-04-12T17:32:47Z                                                |
| <b>Registry Expiry Date</b>   | 2023-04-07T17:32:16Z                                                |
| <b>Registrar WHOIS Server</b> | whois.namecheap.com                                                 |
| <b>Registrar URL</b>          | <a href="https://www.namecheap.com/">https://www.namecheap.com/</a> |
| <b>Registrar</b>              | NameCheap, Inc.                                                     |
| <b>Registrar IANA ID</b>      | 1068                                                                |

The domain was created 5 months before the creation of the audit. It will expire in 8 months.

There is no public billing information, the creator is protected by the privacy settings.

## Summary

ButterFinance is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a limit of max 10% fees.

## Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

Cyberscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Cyberscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Cyberscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token.

The Cyberscope team disclaims any liability for the resulting losses.

# About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

<https://www.cyberscope.io>



# Cyberscope

## Audit Report

# ButterFinance

August 2022

Type      BEP20

Network    BSC

Address    0xCE5D85177feCC3d7c824Dbf0790B4eoC1A472BCe

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## Contract Review

|                         |                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contract Name</b>    | ButterToken                                                                                                                                             |
| <b>Compiler Version</b> | v0.8.4+commit.c7e474f2                                                                                                                                  |
| <b>Optimization</b>     | 200 runs                                                                                                                                                |
| <b>Explorer</b>         | <a href="https://bscscan.com/token/0xCE5D85177feCC3d7c824Dbf0790B4eaC1A472BCe">https://bscscan.com/token/0xCE5D85177feCC3d7c824Dbf0790B4eaC1A472BCe</a> |
| <b>Symbol</b>           | BUTTER                                                                                                                                                  |
| <b>Decimals</b>         | 18                                                                                                                                                      |
| <b>Total Supply</b>     | 10,000,000                                                                                                                                              |
| <b>Domain</b>           | butterfinance.io                                                                                                                                        |

## Audit Updates

|                      |                  |
|----------------------|------------------|
| <b>Initial Audit</b> | 23rd August 2022 |
| <b>Corrected</b>     |                  |

## Source Files

| Filename                                                          | SHA256                                                           |
|-------------------------------------------------------------------|------------------------------------------------------------------|
| @openzeppelin/contracts/access/Ownable.sol                        | 75e3c97011e75627ffb36f4a2799a4e887e1a3e27ed427490e82d7b6f51cc5c9 |
| @openzeppelin/contracts/token/ERC20/ERC20.sol                     | bea6ecb4a800d648b1f77708cbb12a7e86a5547965a0a4e041925dbff07d13e9 |
| @openzeppelin/contracts/token/ERC20/extensions/ERC20Burnable.sol  | 046d05ab1bd0452f2a5abed929383c4b29e0b69fda9e1f1c4d5e7d31ccf99637 |
| @openzeppelin/contracts/token/ERC20/extensions/IERC20Metadata.sol | af5c8a77965cc82c33b7ff844deb9826166689e55dc037a7f2f790d057811990 |
| @openzeppelin/contracts/token/ERC20/IERC20.sol                    | 6eacf8ca56b41b7636489c0996d8f9608b4d298879a1fd5d876f21ad7a6711f1 |
| @openzeppelin/contracts/utils/Context.sol                         | 1458c260d010a08e4c20a4a517882259a23a4baa0b5bd9add9fb6d6a1549814a |
| contracts/ButterToken.sol                                         | fb71d001f691ba4a926e4d9d24bf52344d6f30b0dbd70ddeff778a0a55447aa  |

# Contract Analysis

● Critical ● Medium ● Minor / Informative ● Pass

| Severity | Code | Description                        | Status |
|----------|------|------------------------------------|--------|
| ●        | ST   | Stops Transactions                 | Passed |
| ●        | OCTD | Transfers Contract's Tokens        | Passed |
| ●        | OTUT | Transfers User's Tokens            | Passed |
| ●        | ELFM | Exceeds Fees Limit                 | Passed |
| ●        | ULTW | Transfers Liquidity to Team Wallet | Passed |
| ●        | MT   | Mints Tokens                       | Passed |
| ●        | BT   | Burns Tokens                       | Passed |
| ●        | BC   | Blacklists Addresses               | Passed |

# Contract Diagnostics

● Critical   ● Medium   ● Minor / Informative

| Severity | Code | Description                                | Status     |
|----------|------|--------------------------------------------|------------|
| ●        | L01  | Public Function could be Declared External | Unresolved |
| ●        | L04  | Conformance to Solidity Naming Conventions | Unresolved |
| ●        | L07  | Missing Events Arithmetic                  | Unresolved |
| ●        | L08  | Tautology or Contradiction                 | Unresolved |
| ●        | L11  | Unnecessary Boolean equality               | Unresolved |
| ●        | L13  | Divide before Multiply Operation           | Unresolved |

## L01 - Public Function could be Declared External

|                    |                                              |
|--------------------|----------------------------------------------|
| <b>Criticality</b> | minor / informative                          |
| <b>Location</b>    | contracts/ButterToken.sol#L49,58,21,32,40,28 |
| <b>Status</b>      | Unresolved                                   |

### Description

Public functions that are never called by the contract should be declared external to save gas.

```
toggleTaxExemptionOnTo  
toggleTaxExemptionOnFrom  
changeFees  
toggleLiqPools  
toggleTaxExemption  
changeFeeAddress
```

### Recommendation

Use the external attribute for functions never called from the contract.

## L04 - Conformance to Solidity Naming Conventions

|                    |                                              |
|--------------------|----------------------------------------------|
| <b>Criticality</b> | minor / informative                          |
| <b>Location</b>    | contracts/ButterToken.sol#L15,14,12,10,11,13 |
| <b>Status</b>      | Unresolved                                   |

### Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow `_` at the beginning of the `mixed_case` match for private variables and unused parameters.

```
_liqPools  
_taxExemptionFrom  
_taxExemption  
TaxFee  
FeeAddress  
_taxExemptionTo
```

### Recommendation

Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>.

## L07 - Missing Events Arithmetic

|                    |                               |
|--------------------|-------------------------------|
| <b>Criticality</b> | minor / informative           |
| <b>Location</b>    | contracts/ButterToken.sol#L21 |
| <b>Status</b>      | Unresolved                    |

### Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
TaxFee = tax
```

### Recommendation

Emit an event for critical parameter changes.

## L08 - Tautology or Contradiction

|                    |                               |
|--------------------|-------------------------------|
| <b>Criticality</b> | minor / informative           |
| <b>Location</b>    | contracts/ButterToken.sol#L21 |
| <b>Status</b>      | Unresolved                    |

### Description

Detects expressions that are tautologies or contradictions. For instance, an uint variable will always be greater than or equal to zero.

```
require(bool,string)(tax >= 0,You cannot set the fee below 0%)
```

### Recommendation

Fix the incorrect comparison by changing the value type or the comparison.

## L11 - Unnecessary Boolean equality

|                    |                               |
|--------------------|-------------------------------|
| <b>Criticality</b> | minor / informative           |
| <b>Location</b>    | contracts/ButterToken.sol#L66 |
| <b>Status</b>      | Unresolved                    |

### Description

The comparison to boolean constants is redundant. Boolean constants can be used directly and do not need to be compared to true or false.

```
_taxExemptionFrom[from] == false  
_taxExemptionTo[to] == false  
_taxExemption[to] == false
```

### Recommendation

Remove the equality to the boolean constant.

## L13 - Divide before Multiply Operation

|                    |                               |
|--------------------|-------------------------------|
| <b>Criticality</b> | minor / informative           |
| <b>Location</b>    | contracts/ButterToken.sol#L66 |
| <b>Status</b>      | Unresolved                    |

### Description

Performing divisions before multiplications may cause lose of prediction.

```
taxamount = amount / 1000 * TaxFee
```

### Recommendation

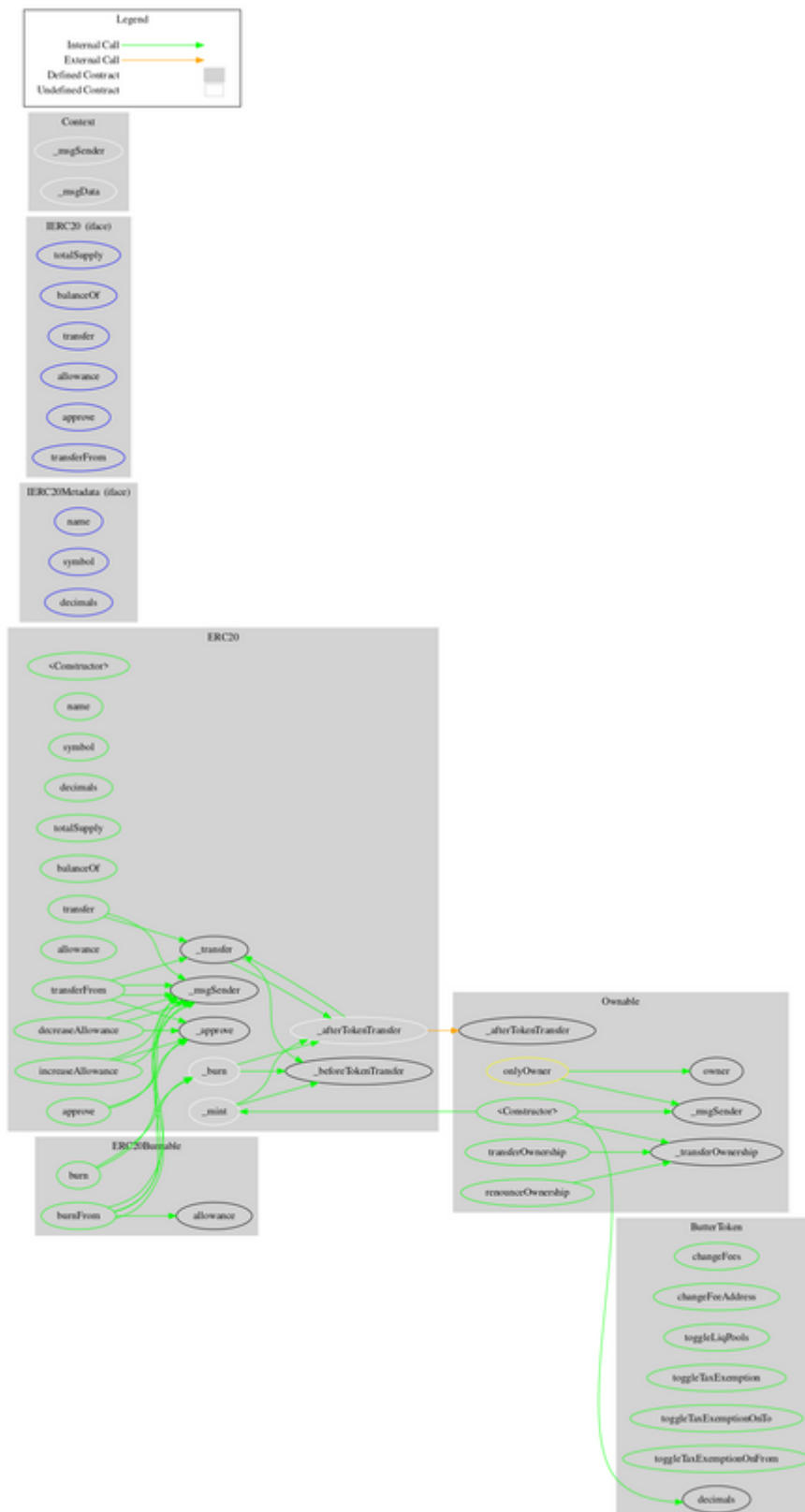
The multiplications should be prior to the divisions.

# Contract Functions

| Contract       | Type                 | Bases                                     |            |           |
|----------------|----------------------|-------------------------------------------|------------|-----------|
|                | Function Name        | Visibility                                | Mutability | Modifiers |
|                |                      |                                           |            |           |
| <b>Ownable</b> | Implementation       | Context                                   |            |           |
|                | <Constructor>        | Public                                    | ✓          | -         |
|                | owner                | Public                                    |            | -         |
|                | renounceOwnership    | Public                                    | ✓          | onlyOwner |
|                | transferOwnership    | Public                                    | ✓          | onlyOwner |
|                | _transferOwnership   | Internal                                  | ✓          |           |
|                |                      |                                           |            |           |
| <b>ERC20</b>   | Implementation       | Context,<br>IERC20,<br>IERC20Met<br>adata |            |           |
|                | <Constructor>        | Public                                    | ✓          | -         |
|                | name                 | Public                                    |            | -         |
|                | symbol               | Public                                    |            | -         |
|                | decimals             | Public                                    |            | -         |
|                | totalSupply          | Public                                    |            | -         |
|                | balanceOf            | Public                                    |            | -         |
|                | transfer             | Public                                    | ✓          | -         |
|                | allowance            | Public                                    |            | -         |
|                | approve              | Public                                    | ✓          | -         |
|                | transferFrom         | Public                                    | ✓          | -         |
|                | increaseAllowance    | Public                                    | ✓          | -         |
|                | decreaseAllowance    | Public                                    | ✓          | -         |
|                | _transfer            | Internal                                  | ✓          |           |
|                | _mint                | Internal                                  | ✓          |           |
|                | _burn                | Internal                                  | ✓          |           |
|                | _approve             | Internal                                  | ✓          |           |
|                | _beforeTokenTransfer | Internal                                  | ✓          |           |
|                | _afterTokenTransfer  | Internal                                  | ✓          |           |

|                       |                          |                               |   |           |
|-----------------------|--------------------------|-------------------------------|---|-----------|
|                       |                          |                               |   |           |
| <b>ERC20Burnable</b>  | Implementation           | Context, ERC20                |   |           |
|                       | burn                     | Public                        | ✓ | -         |
|                       | burnFrom                 | Public                        | ✓ | -         |
|                       |                          |                               |   |           |
| <b>IERC20Metadata</b> | Interface                | IERC20                        |   |           |
|                       | name                     | External                      |   | -         |
|                       | symbol                   | External                      |   | -         |
|                       | decimals                 | External                      |   | -         |
|                       |                          |                               |   |           |
| <b>IERC20</b>         | Interface                |                               |   |           |
|                       | totalSupply              | External                      |   | -         |
|                       | balanceOf                | External                      |   | -         |
|                       | transfer                 | External                      | ✓ | -         |
|                       | allowance                | External                      |   | -         |
|                       | approve                  | External                      | ✓ | -         |
|                       | transferFrom             | External                      | ✓ | -         |
|                       |                          |                               |   |           |
| <b>Context</b>        | Implementation           |                               |   |           |
|                       | _msgSender               | Internal                      |   |           |
|                       | _msgData                 | Internal                      |   |           |
|                       |                          |                               |   |           |
| <b>ButterToken</b>    | Implementation           | ERC20, ERC20Burnable, Ownable |   |           |
|                       | <Constructor>            | Public                        | ✓ | ERC20     |
|                       | changeFees               | Public                        | ✓ | onlyOwner |
|                       | changeFeeAddress         | Public                        | ✓ | onlyOwner |
|                       | toggleLiqPools           | Public                        | ✓ | onlyOwner |
|                       | toggleTaxExemption       | Public                        | ✓ | onlyOwner |
|                       | toggleTaxExemptionOnTo   | Public                        | ✓ | onlyOwner |
|                       | toggleTaxExemptionOnFrom | Public                        | ✓ | onlyOwner |
|                       | _afterTokenTransfer      | Internal                      | ✓ |           |

# Contract Flow



## Domain Info

|                               |                                                                     |
|-------------------------------|---------------------------------------------------------------------|
| <b>Domain Name</b>            | butterfinance.io                                                    |
| <b>Registry Domain ID</b>     | 539fd7c1c13743d29d0e210b5b84e7cf-DONUTS                             |
| <b>Creation Date</b>          | 2022-04-07T17:32:16Z                                                |
| <b>Updated Date</b>           | 2022-04-12T17:32:47Z                                                |
| <b>Registry Expiry Date</b>   | 2023-04-07T17:32:16Z                                                |
| <b>Registrar WHOIS Server</b> | whois.namecheap.com                                                 |
| <b>Registrar URL</b>          | <a href="https://www.namecheap.com/">https://www.namecheap.com/</a> |
| <b>Registrar</b>              | NameCheap, Inc.                                                     |
| <b>Registrar IANA ID</b>      | 1068                                                                |

The domain was created 5 months before the creation of the audit. It will expire in 8 months.

There is no public billing information, the creator is protected by the privacy settings.

## Summary

ButterFinance is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a limit of max 10% fees.

## Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

Cyberscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Cyberscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Cyberscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token.

The Cyberscope team disclaims any liability for the resulting losses.

## About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

<https://www.cyberscope.io>