



# SMART CONTRACT SECURITY AUDIT

Snow Burn

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was posted at Soken Github



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Website: [soken.io](https://soken.io)

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# Disclaimer

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws. We took into consideration smart contract based algorithms, as well. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully.

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Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.

# Procedure

## Our analysis contains following steps:

1. Project Analysis;
2. Manual analysis of smart contracts:
  - Deploying smart contracts on any of the network(Ropsten/Rinkeby) using Remix IDE
  - Hashes of all transaction will be recorded
  - Behaviour of functions and gas consumption is noted, as well.
3. Unit Testing:
  - Smart contract functions will be unit tested on multiple parameters and under multiple conditions to ensure that all paths of functions are functioning as intended.
  - In this phase intended behaviour of smart contract is verified.
  - In this phase, we would also ensure that smart contract functions are not consuming unnecessary gas.
  - Gas limits of functions will be verified in this stage.
4. Automated Testing:
  - Mythril
  - Oyente
  - Manticore
  - Solgraph

# Terminology

**We categorize the finding into 4 categories based on their vulnerability:**

- Low-severity issue — less important, must be analyzed
- Medium-severity issue — important, needs to be analyzed and fixed
- High-severity issue — important, might cause vulnerabilities, must be analyzed and fixed
- Critical-severity issue — serious bug causes, must be analyzed and fixed.

# Limitations

The security audit of Smart Contract cannot cover all vulnerabilities. Even if no vulnerabilities are detected in the audit, there is no guarantee that future smart contracts are safe. Smart contracts are in most cases safeguarded against specific sorts of attacks. In order to find as many flaws as possible, we carried out a comprehensive smart contract audit. Audit is a document that is not legally binding and guarantees nothing.

# Token Contract Details for 03.03.2022

Contract Name: **SnowBurn**

Deployed address: **0x2f4FC16308Be09e7611a047B9576881Eb5298dD6**

Total Supply: **1,000,000,000,000,000**

Decimals: **18**

Token holders: **602**

Transactions count: **2,771**

Token Tracker: **BURN**

Top 100 holders dominance: **98.98%**

## Audit Details



Project Name: **Snow Burn**

Language: **Solidity**

Compiler version: **v0.8.4**

Blockchain: **Avalanche**

# Token Brief Description

The goal of Snow Burn is to reduce the circulating supply from 1,000,000,000,000,000 tokens to just 1 token, where holders will hold only fractions. The main feature to power this will be the 1-1 burn mechanism, where for every transaction buy or sell, an equal number of tokens is automatically sent to the dead wallet by the contract. There will also be manual buy-back and burns which will be funded by revenue from utility products. This will ensure an ever rising token price due to the rapid reduction of circulating supply.

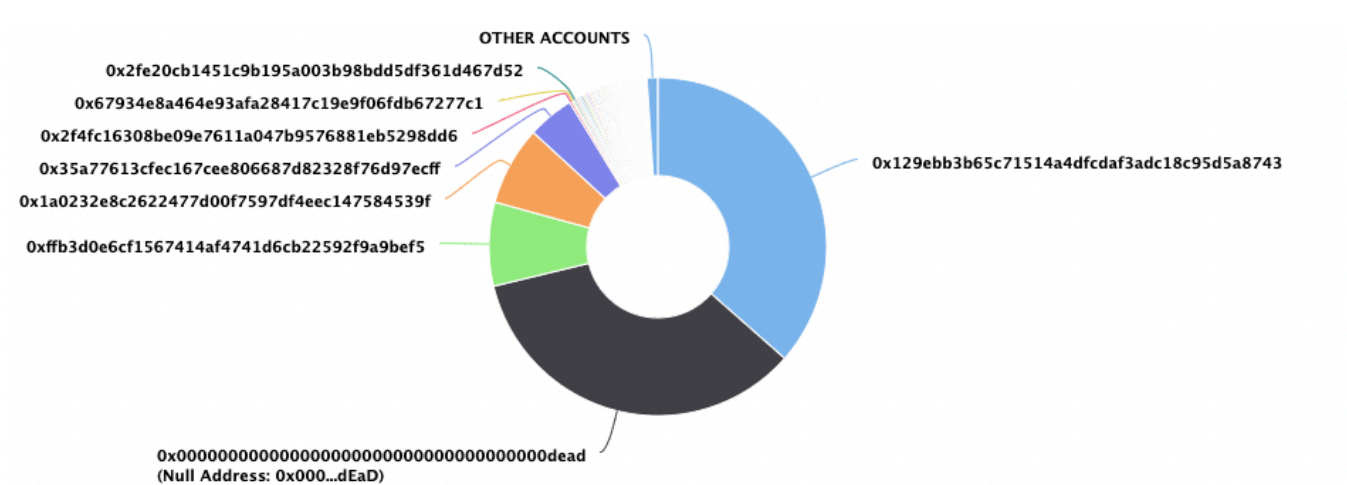
# Social Profiles

Project Website: <https://snow-burn.com/>

Project Twitter: <https://twitter.com/SnowBurnAVAX>

Project Telegram: <https://twitter.com/SnowBurnAVAX>

## BURN Token Distribution



## BURN Top Holders

| Rank | Address                                    | Quantity (Token)                       | Percentage |
|------|--|--|------------|
| 1    | 0x129ebb3b65c71514a4dfcdaf3adc18c95d5a8743 | 364,883,988,397,822.207446393614850994 | 36.4884%   |
| 2    | Null Address: 0x000...dEaD                 | 347,689,973,881,032.330262330478099431 | 34.7690%   |
| 3    | 0xffb3d0e6cf1567414af4741d6cb22592f9a9bef5 | 80,000,000,000,000.00159076998709248   | 8.0000%    |
| 4    | 0x1a0232e8c2622477d00f7597df4eec147584539f | 75,535,091,489,590.808425166086850198  | 7.5535%    |
| 5    | 0x35a77613cfec167cee806687d82328f76d97ecff | 44,600,168,828,745.775880000221279256  | 4.4600%    |
| 6    | 0x2f4fc16308be09e7611a047b9576881eb5298dd6 | 2,357,217,883,948.709622293491932293   | 0.2357%    |
| 7    | 0x67934e8a464e93afa28417c19e9f06fdb67277c1 | 1,999,999,999,998.999959176996716544   | 0.2000%    |
| 8    | 0x2fe20cb1451c9b195a003b98bdd5df361d467d52 | 1,986,704,788,053                      | 0.1987%    |
| 9    | 0x7e9aad267743d9c6c0c9a14d978cb2410dad0b9b | 1,978,706,762,813.999951460524097536   | 0.1979%    |
| 10   | 0x229fa668f45830fc17326102e4bda2e3548ec797 | 1,965,750,980,912.00005589029617664    | 0.1966%    |



# Vulnerabilities checking

| Issue Description                    | Checking Status |
|--------------------------------------|-----------------|
| Compiler Errors                      | Completed       |
| Delays in Data Delivery              | Completed       |
| Re-entrancy                          | Completed       |
| Transaction-Ordering Dependence      | Completed       |
| Timestamp Dependence                 | Completed       |
| Shadowing State Variables            | Completed       |
| DoS with Failed Call                 | Completed       |
| DoS with Block Gas Limit             | Completed       |
| Outdated Compiler Version            | Completed       |
| Assert Violation                     | Completed       |
| Use of Deprecated Solidity Functions | Completed       |
| Integer Overflow and Underflow       | Completed       |
| Function Default Visibility          | Completed       |
| Malicious Event Log                  | Completed       |
| Math Accuracy                        | Completed       |
| Design Logic                         | Completed       |
| Fallback Function Security           | Completed       |
| Cross-function Race Conditions       | Completed       |
| Safe Zeppelin Module                 | Completed       |

# Security Issues

## 1) Owner Privileges

The contract contains ownership functionality and ownership is not renounced which allows the creator or current owner to modify contract behaviour (for example, disable selling or mint new tokens).

## 2) Volatile Code:

The return values of functions

*swapExactTokensForAVAXSupportingFeeOnTransferTokens* and *addLiquidityAVAX* are not properly handled.

## Recommendation:

We recommend using variables to receive the return value of the functions mentioned above and handle both success and failure cases if needed by the business logic.

## Conclusion

Smart contracts are containing low-severity issues.  
Smart contracts are free from any medium or high-severity issues.

NOTE: Please check the disclaimer above and note, that audit makes no statements or warranties on business model, investment attractiveness or code sustainability.

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