Charlie's Sentinel Token - Self-Review Security Audit

Contract Name: BurnableTeamToken
Network: Ethereum Mainnet
Contract Address: 0xe4Bf0FA5525fc5EEB2F1B26CE67062cE1bCB
Compiler Version: Solidity >=0.6.2 <0.8.0
License: MIT
Audit Type: Self-review (OpenZeppelin Base, Verified Source)
Audit Date: March 25, 2025

Project Name: Charlie's Sentinel Token (SENTINEL)
Audit Prepared By: Charlie's Sentinel Security Review Team

Overview
This document is a self-review audit of the smart contract "BurnableTeamToken" which implements an ERC-20 token named Charlie's Sentinel Token. The contract source is publicly verified on Etherscan.

It is based on standard audited libraries from OpenZeppelin, using:
- ERC20
- ERC20Burnable
- Ownable
- SafeMath

Key Contract Features
- Initial Supply: Fixed at deployment via _mint(owner, supply)
- Decimals: Configurable at deployment (between 8 and 18)
- Minting: Only at deployment; contract does not include a public or external mint() function
- Burning: Enabled via burn() and burnFrom()
- Ownership: Can be renounced to lock further control
- Metadata: Stored via IPFS

Supply Analysis
- Capped Supply: Yes (total supply fixed at contract creation)
- No Further Minting: There is no accessible minting function post-deployment

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Security Observations

Area	Status	Notes
Reentrancy	Not applicable	No external calls made in balance-altering ops
Integer Overflow	Protected	Uses SafeMath
Unrestricted Minting	Not present	No mint function exposed post-deployment
External Ownership	Optional	renounceOwnership() disables privileged access
Metadata Integrity	Decentralised	Stored via IPFS

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Known Limitations / Risk Notes
- Token has no native liquidity locks or trading constraints. DEX interaction is at the discretion of the deployer/community.
- No automatic anti-whale or blacklist logic.
- Audit is self-issued, not from a third-party security firm.

Conclusion
The token contract is based on reliable, well-audited OpenZeppelin standards.
No minting mechanisms are exposed. Ownership can be renounced to support decentralisation.
This contract is suitable for public market trading with appropriate liquidity support.

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DISCLAIMER:
This document is provided as a self-assessment only. No guarantees or liabilities are offered. For commercial assurance, an external audit is recommended.