

Alchemist AI (ALCH)
White paper

In accordance with Title II of Regulation (EU) 2023/1114 (MiCA)

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N	Field	Content
0	Table of content	<p>Table of content 2</p> <p>Date of notification 6</p> <p>Statement in accordance with Article 6(3) of Regulation (EU) 2023/1114 6</p> <p>Compliance statement in accordance with Article 6(6) of Regulation (EU) 2023/1114 7</p> <p>Statement in accordance with Article 6(5), points (a), (b), (c) of Regulation (EU) 2023/1114 7</p> <p>Statement in accordance with Article 6(5), point (d) of Regulation (EU) 2023/1114 7</p> <p>Statement in accordance with Article 6(5), points (e) and (f) of Regulation (EU) 2023/1114 7</p> <p>Summary 7</p> <p>Warning in accordance with Article 6(7), second subparagraph of Regulation (EU) 2023/1114 7</p> <p>Characteristics of the crypto-asset 8</p> <p>Information about the quality and quantity of goods or services to which the utility tokens give access and restrictions on the transferability 8</p> <p>Key information about the offer to the public or admission to trading 8</p> <p>Part I – Information on risks 8</p> <p>Offer-Related Risks 8</p> <p>Issuer-Related Risks 9</p> <p>Crypto-Assets-related Risks 9</p> <p>Project Implementation-Related Risks 10</p> <p>Technology-Related Risks 10</p> <p>Mitigation measures 11</p> <p>Part A - Information about the offeror or the person seeking admission to trading 11</p> <p>Name 11</p> <p>Legal form 11</p> <p>Registered address 11</p> <p>Head office 11</p> <p>Registration Date 11</p> <p>Legal entity identifier 11</p> <p>Another identifier required pursuant to applicable national law 12</p> <p>Contact telephone number 12</p> <p>E-mail address 12</p> <p>Response Time (Days) 12</p> <p>Parent Company 12</p> <p>Members of the Management body 12</p>

	Business Activity	12
	Parent Company Business Activity	12
	Newly Established	12
	Financial condition for the past three years	12
	Financial condition since registration	12
	Part B - Information about the issuer, if different from the offeror or person seeking admission to trading	13
	Issuer different from offeror or person seeking admission to trading	13
	Name	13
	Legal form	13
	Registered address	13
	Head office	13
	Registration Date	13
	Legal entity identifier	13
	Another identifier required pursuant to applicable national law	13
	Parent Company	13
	Members of the Management body	13
	Business Activity	13
	Parent Company Business Activity	14
	Part C- Information about the operator of the trading platform in cases where it draws up the crypto-asset white paper and information about other persons drawing the crypto-asset white paper pursuant to Article 6(1), second subparagraph, of Regulation (EU) 2023/1114	14
	Name	14
	Legal form	14
	Registered address	14
	Head office	14
	Registration Date	14
	11-07-2023	14
	Legal entity identifier of the operator of the trading platform	14
	Another identifier required pursuant to applicable national law	14
	Parent Company	14
	Reason for Crypto-Asset White Paper Preparation	14
	Members of the Management body	15
	Operator Business Activity	15
	Parent Company Business Activity	15
	Other persons drawing up the crypto-asset white paper according to Article 6(1), second subparagraph, of Regulation (EU) 2023/1114	16
	Reason for drawing the white paper by persons referred to in Article 6(1), second subparagraph, of Regulation (EU) 2023/1114	16
	Part D- Information about the crypto-asset project	16

	Crypto-asset project name	16
	Crypto-assets name	16
	Abbreviation	16
	Crypto-asset project description	16
	Details of all natural or legal persons involved in the implementation of the crypto-asset project	17
	Utility Token Classification	17
	Key Features of Goods/Services for Utility Token Projects	17
	Plans for the token	17
	Resource Allocation	17
	Planned Use of Collected Funds or Crypto-Assets	17
	Part E - Information about the offer to the public of crypto-assets or their admission to trading	17
	Public Offering or Admission to trading	17
	Reasons for Public Offer or Admission to trading	18
	Fundraising Target	18
	Minimum Subscription Goals	18
	Maximum Subscription Goal	18
	Oversubscription Acceptance	18
	Oversubscription Allocation	18
	Issue Price	18
	Official currency or other crypto-assets determining the issue price	18
	Subscription fee	18
	Offer Price Determination Method	18
	Total Number of Offered/Traded crypto-assets	19
	Targeted Holders	19
	Holder restrictions	19
	Reimbursement Notice	19
	Refund Mechanism	19
	Refund Timeline	19
	Offer Phases	19
	Early Purchase Discount	19
	time-limited offer	19
	Subscription period beginning	19
	Subscription period end	19
	Safeguarding Arrangements for Offered Funds/crypto-assets	20
	Payment Methods for crypto-asset Purchase	20
	Value Transfer Methods for Reimbursement	20
	Right of Withdrawal	20
	Transfer of Purchased crypto-assets	20

	Transfer Time Schedule	20
	Purchaser's Technical Requirements	20
	crypto-asset service provider (CASP) name	20
	CASP identifier	20
	Placement form	20
	Trading Platforms name	21
	Trading Platforms Market Identifier Code (MIC)	21
	Trading Platforms Access	21
	Involved costs	21
	Offer Expenses	21
	Conflicts of Interest	21
	Applicable law	21
	Competent court	21
	Part F - Information about the crypto-assets	21
	Crypto-Asset Type	21
	Crypto-Asset Functionality	21
	Planned Application of Functionalities	22
	A description of the characteristics of the crypto-asset, including the data necessary for classification of the crypto-asset white paper in the register referred to in Article 109 of Regulation (EU) 2023/1114, as specified in accordance with paragraph 8 of that Article	22
	Type of white paper	22
	The type of submission	22
	Crypto-Asset Characteristics	22
	Commercial name or trading name	22
	Website of the issuer	22
	Starting date of offer to the public or admission to trading	22
	Publication date	22
	Any other services provided by the issuer	22
	Identifier of operator of the trading platform	22
	Language or languages of the white paper	23
	Digital Token Identifier	23
	Functionally Fungible Group Digital Token Identifier	23
	Voluntary data flag	23
	Personal data flag	23
	LEI eligibility	23
	Home Member State	23
	Host Member States	23
	Part G - Information on the rights and obligations attached to the crypto-assets	23
	Purchaser Rights and Obligations	23

	Exercise of Rights and obligations	24
	Conditions for modifications of rights and obligations	24
	Future Public Offers	24
	Issuer Retained Crypto-Assets	24
	Utility Token Classification	24
	Key Features of Goods/Services of Utility Tokens	24
	Utility Tokens Redemption	24
	Non-Trading request	24
	Crypto-Assets purchase or sale modalities	25
	Crypto-Assets Transfer Restrictions	25
	Supply Adjustment Protocols	25
	Supply Adjustment Mechanisms	25
	Token Value Protection Schemes	25
	Token Value Protection Schemes Description	25
	Compensation Schemes	25
	Compensation Schemes Description	25
	Applicable law	25
	Competent court	25
	Part H – information on the underlying technology	26
	Distributed ledger technology	26
	Protocols and technical standards	26
	Technology Used	26
	Consensus Mechanism	26
	Incentive Mechanisms and Applicable Fees	26
	Use of Distributed Ledger Technology	26
	DLT Functionality Description	26
	Audit	26
	Audit outcome	26
	Part J - Information on the suitability indicators in relation to adverse impact on	26
	the climate and other environment-related adverse impacts	26
	Name	26
	Relevant legal entity identifier	27
	Name of the crypto-asset	27
	Consensus Mechanism	27
	Incentive Mechanisms and Applicable Fees	28
	Beginning of the period to which the disclosure relates	29
	End of the period to which the disclosure relates	29
	Energy consumption	30

		Energy consumption sources and methodologies	30
01	Date of notification	2025-06-12	
02	Statement in accordance with Article 6(3) of Regulation (EU) 2023/1114	This crypto-asset white paper has not been approved by any competent authority in any Member State of the European Union. The operator of the trading platform of the crypto-asset is solely responsible for the content of this crypto-asset white paper.	
03	Compliance statement in accordance with Article 6(6) of Regulation (EU) 2023/1114	This crypto-asset white paper complies with Title II of Regulation (EU) 2023/1114 and, to the best of the knowledge of the management body, the information presented in the crypto-asset white paper is fair, clear and not misleading and the crypto-asset white paper makes no omission likely to affect its import.	
04	Statement in accordance with Article 6(5), points (a), (b), (c) of Regulation (EU) 2023/1114	The crypto-asset referred to in this white paper may lose its value in part or in full, may not always be transferable and may not be liquid.	
05	Statement in accordance with Article 6(5), point (d) of Regulation (EU) 2023/1114	false	
06	Statement in accordance with Article 6(5), points (e) and (f) of Regulation (EU) 2023/1114	The crypto-asset referred to in this white paper is not covered by the investor compensation schemes under Directive 97/9/EC of the European Parliament and of the Council. The crypto-asset referred to in this white paper is not covered by the deposit guarantee schemes under Directive 2014/49/EU of the European Parliament and of the Council.	

Summary												
07	Warning in accordance with Article 6(7), second subparagraph of Regulation (EU) 2023/1114	<p>Warning</p> <p>This summary should be read as an introduction to the crypto-asset white paper. The prospective holder should base any decision to purchase this crypto-asset on the content of the crypto-asset white paper as a whole and not on the summary alone. The admission to trading of this crypto-asset does not constitute an offer or solicitation to purchase financial instruments and any such offer or solicitation can be made only by means of a prospectus or other offer documents pursuant to the applicable national law. This crypto-asset white paper does not constitute a prospectus as referred to in Regulation (EU) 2017/1129 of the European Parliament and of the Council (36) or any other offer document pursuant to Union or national law.</p>										
08	Characteristics of the crypto-asset	<p>The ALCH token is a digital asset on the Solana blockchain that serves as the native token of the Alchemist AI platform. ALCH can be used within the Alchemist ecosystem for in-app payments, consumption of services, and marketplace transactions.</p> <p>ALCH has a maximum supply of 1 000 000 000 distributed as follows:</p> <table><tr><th>Category</th><th>Allocation</th></tr><tr><td>Liquidity Pool</td><td>85%</td></tr><tr><td>Treasury & Ecosystem</td><td>7%</td></tr><tr><td>Marketing</td><td>5%</td></tr><tr><td>Team</td><td>3%</td></tr></table> <p>ALCH tokens are freely transferable, in whole or in part, to third parties, and all associated usage rights and obligations follow the token upon transfer.</p>	Category	Allocation	Liquidity Pool	85%	Treasury & Ecosystem	7%	Marketing	5%	Team	3%
Category	Allocation											
Liquidity Pool	85%											
Treasury & Ecosystem	7%											
Marketing	5%											
Team	3%											
09	Information about the quality and quantity of goods or services to which the utility tokens give access and restrictions on the transferability	N/A										

10	Key information about the offer to the public or admission to trading	Kraken seeks admission to trading of the ALCH token so as to be compliant with MiCA and in keeping with its mission to make available for trading to its clients a wide range of assets.
Part I – Information on risks		
I.1	Offer-Related Risks	<p>General Risk Factors Associated with Crypto-Asset Offerings: The admission to trading of crypto-assets, including ALCH, is subject to general risks inherent to the broader cryptocurrency market.</p> <p>Market Volatility: The value of ALCH may experience substantial fluctuations driven by investor sentiment, macroeconomic developments, and market conditions.</p> <p>Regulatory Risks: Changes in legislation, applicable laws, compliance requirements or the implementation of new regulatory frameworks could affect the availability, trading, or use of such assets.</p> <p>Security Risks: The risk of exploitation, hacking or security vulnerabilities of the underlying protocol and/or contracts of the token leading to a loss.</p> <p>Reputational Risks: The potential for damage to an organization's credibility or public trust, which can negatively impact stakeholder confidence and overall business viability.</p>
I.2	Issuer-Related Risks	The development and continuity of the Alchemist AI project depend on the project team behind it. The issuer may face financial, operational, or legal challenges that could adversely affect the project. For example, insufficient funding or revenue could impair the team's ability to maintain and upgrade the platform, and legal or regulatory actions against the project's operators could interrupt or terminate services. Governance and internal control risks also exist: if the project's management is ineffective or if there are internal failures (e.g. fraud or mismanagement), the value and utility of ALCH could decline.
I.3	Crypto-Assets-related Risks	<p>Market Volatility: The crypto-asset market is subject to significant price volatility, which may affect the value of ALCH. Prices can fluctuate rapidly and unpredictably due to various factors, including market sentiment, economic indicators, technological developments, regulatory news, and macroeconomic trends. This high level of</p>

		<p>volatility may lead to sudden gains or losses and can impact the liquidity and tradability of the crypto-asset.</p> <p>Liquidity: Liquidity refers to the ability to buy or sell a crypto-asset without causing significant price impact. ALCH may experience periods of low liquidity, meaning that it could be difficult to enter or exit positions at desired prices or volumes. Reduced liquidity may result from limited market participation, exchange restrictions, or broader market conditions. This can lead to increased price volatility, slippage, and difficulty in executing transactions.</p> <p>Cybersecurity & Technology Risks: Risks arising from vulnerabilities in the blockchain technology used by the project or platforms. Example risks include smart contract exploits, compromise of platforms, forking scenarios, compromise of cryptographic algorithms.</p> <p>Adoption Risks: The risk associated with the project not achieving its goals leading to lower than expected adoption and use within the ecosystem, the impact leading to a reduced utility and value proposition.</p> <p>Custody & Ownership Risk: The risk related to the inadequate safekeeping and control of crypto-assets e.g. loss of private keys, custodian insolvency leading to a loss.</p>
I.4	Project Implementation-Related Risks	<p>There is a risk that the Alchemist AI project may not be implemented as planned. Development delays, technical difficulties, or unforeseen challenges could prevent the team from delivering new features or maintaining the platform's performance. The success of the platform also depends on user adoption and community engagement; if the platform fails to gain a sufficient user base or loses user interest over time, the ecosystem (and demand for ALCH) could stagnate. Additionally, competition from other no-code AI development platforms could impact Alchemist AI's market position.</p>
I.5	Technology-Related Risks	<p>Smart contract risks: ALCH uses smart contracts to facilitate automated transactions and processes. While these contracts enhance efficiency and decentralization, they also introduce specific technical risks. Vulnerabilities such as coding errors, design flaws, or security loopholes within the smart contract code may be exploited by malicious actors. Such exploits could result in the loss of assets, unauthorized access to sensitive information, or unintended and irreversible execution of transactions.</p> <p>Blockchain Network Risks: ALCH operates on a public blockchain infrastructure, which is maintained by a</p>

		<p>decentralized network of participants. The functionality and reliability of the crypto-asset are dependent on the performance and security of the underlying blockchain. Risks may include network congestion, high transaction fees, delayed processing times, or, in extreme cases, outages and disruptions. Additionally, vulnerabilities or failures in the consensus mechanism, attacks on the network (e.g., 51% attacks), or protocol-level bugs could impact the operation and availability of ALCH.</p> <p>Risk of Cryptographic Vulnerabilities: Technological advancements, such as quantum computing, could pose potential risks to cryptocurrencies.</p> <p>Privacy: Transactions involving ALCH are recorded on a public blockchain, where transaction data is transparent and permanently accessible. While public addresses do not directly reveal personal identities, transaction histories can be analyzed and, in some cases, linked to individuals through data aggregation or external information sources. This transparency may pose privacy concerns for users seeking confidentiality in their financial activity. Participants should be aware that transaction data on public blockchains is not inherently private and could be subject to scrutiny by third parties, including regulators, analytics firms, or malicious actors.</p>
I.6	Mitigation measures	<p>Technical Safeguards: The platform implements multiple layers of technical safeguards to reduce technology-related risks: for example, all user-generated applications run in isolated (“sandboxed”) execution environments to prevent malicious code from affecting other parts of the system.</p> <p>Use of Established Standard: ALCH is implemented using a well-tested token standard, SPL on Solana which has been widely used and vetted. By adhering to a standard protocol and not using unproven custom code where unnecessary, the project reduces the likelihood of unknown bugs.</p>
Part A - Information about the offeror or the person seeking admission to trading		
A.1	Name	N/A
A.2	Legal form	N/A

A.3	Registered address	N/A
A.4	Head office	N/A
A.5	Registration Date	N/A
A.6	Legal entity identifier	N/A
A.7	Another identifier required pursuant to applicable national law	N/A
A.8	Contact telephone number	N/A
A.9	E-mail address	N/A
A.10	Response Time (Days)	N/A
A.11	Parent Company	N/A
A.12	Members of the Management body	N/A
A.13	Business Activity	N/A
A.14	Parent Company Business Activity	N/A

A.15	Newly Established	N/A
A.16	Financial condition for the past three years	N/A
A.17	Financial condition since registration	N/A
Part B - Information about the issuer, if different from the offeror or person seeking admission to trading		
B.1	Issuer different from offeror or person seeking admission to trading	true
B.2	Name	Unknown
B.3	Legal form	Not available
B.4	Registered address	Not available
B.5	Head office	Not available
B.6	Registration Date	Not available
B.7	Legal entity identifier	Not available

B.8	Another identifier required pursuant to applicable national law	Not available
B.9	Parent Company	Not available
B.10	Members of the Management body	Not available
B.11	Business Activity	Not available
B.12	Parent Company Business Activity	Not available

Part C- Information about the operator of the trading platform in cases where it draws up the crypto-asset white paper and information about other persons drawing the crypto-asset white paper pursuant to Article 6(1), second subparagraph, of Regulation (EU) 2023/1114

C.1	Name	Payward Global Solutions LTD
C.2	Legal form	N/A
C.3	Registered address	N/A
C.4	Head office	N/A
C.5	Registration Date	11-07-2023
C.6	Legal entity identifier of the operator of the trading platform	9845003D98SCC2851458

C.7	Another identifier required pursuant to applicable national law	N/A																		
C.8	Parent Company	N/A																		
C.9	Reason for Crypto-Asset White Paper Preparation	Kraken seeks admission to trading of the ALCH token so as to be compliant with MiCA and in keeping with its mission to make available for trading to its clients a wide range of assets.																		
C.10	Members of the Management body	<table border="1"> <thead> <tr> <th>Full Name</th><th>Business Address</th><th>Function</th></tr> </thead> <tbody> <tr> <td>Shannon Kurtas</td><td>70 Sir John Rogerson's Quay, Dublin 2, Ireland</td><td>Board Member</td></tr> <tr> <td>Andrew Mulvenny</td><td>70 Sir John Rogerson's Quay, Dublin 2, Ireland</td><td>Board Member</td></tr> <tr> <td>Shane O'Brien</td><td>70 Sir John Rogerson's Quay, Dublin 2, Ireland</td><td>Board Member</td></tr> <tr> <td>Laura Walsh</td><td>70 Sir John Rogerson's Quay, Dublin 2, Ireland</td><td>Board Member</td></tr> <tr> <td>Michael Walsh</td><td>70 Sir John Rogerson's Quay, Dublin 2, Ireland</td><td>Board Member</td></tr> </tbody> </table>	Full Name	Business Address	Function	Shannon Kurtas	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member	Andrew Mulvenny	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member	Shane O'Brien	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member	Laura Walsh	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member	Michael Walsh	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member
Full Name	Business Address	Function																		
Shannon Kurtas	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member																		
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Laura Walsh	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member																		
Michael Walsh	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member																		
C.11	Operator Business Activity	PGSL is the operator of a Trading Platform for Crypto Assets, in accordance with Article 3(1)(18) of Regulation (EU) 2023/1114 (MiCA).																		
C.12	Parent Company Business Activity	<p>Payward, Inc., a Delaware, USA corporation, is the parent company of a worldwide group of subsidiaries (the following paragraphs use the term "Payward" or "Payward Group" to refer to the group) collectively doing business as "Kraken." Payward's primary business is the operation of an online virtual asset platform that enables clients to buy and sell virtual assets on a spot basis, including the transfer of crypto-assets to and from external wallets.</p> <p>Payward, through its various affiliates, offers a number of other services and products, including:</p>																		

		<ul style="list-style-type: none"> * A trading platform for futures contracts on virtual assets (“Kraken Derivatives”); * A platform for buying and selling NFTs; * An over-the-counter (“OTC”) desk; * Extensions of margin to support spot trading of virtual assets; * A benchmark administrator; and * Staking services.
C.13	Other persons drawing up the crypto-asset white paper according to Article 6(1), second subparagraph, of Regulation (EU) 2023/1114	N/A
C.14	Reason for drawing the white paper by persons referred to in Article 6(1), second subparagraph, of Regulation (EU) 2023/1114	N/A
Part D- Information about the crypto-asset project		
D.1	Crypto-asset project name	Alchemist AI
D.2	Crypto-assets name	Alchemist AI
D.3	Abbreviation	ALCH
D.4	Crypto-asset project description	Alchemist AI is a no-code application development platform powered by artificial intelligence. It enables users to create functional web applications by simply describing their ideas in natural language. Behind the scenes, the platform uses a combination of large language models, automated code generation, and web framework integration to turn user prompts into working applications (ranging

		from basic tools to interactive games) without requiring the user to write code. The Alchemist AI platform is built to streamline AI application development by handling complex tasks like resource management and deployment. The project leverages the Solana blockchain for certain aspects of its ecosystem – notably, the ALCH token facilitates transactions (such as buying and selling user-created applications) and other in-platform payments.
D.5	Details of all natural or legal persons involved in the implementation of the crypto-asset project	The Alchemist AI project is developed and maintained by a group of anonymous or pseudonymous contributors. No specific individuals or legal entities have been officially disclosed as core team members.
D.6	Utility Token Classification	false
D.7	Key Features of Goods/Services for Utility Token Projects	N/A
D.8	Plans for the token	<p>Past milestones: Alchemist AI launched its platform and the ALCH token in late 2024, establishing the core AI-driven application builder and integrated marketplace for user-created applications. Key early achievements include the deployment of the Alchemist AI “Sacred Laboratory” (the no-code development environment) and the “Arcane Forge” marketplace, where creators can monetize applications using ALCH.</p> <p>Future milestones: Refer to the project team’s official website for any further information regarding future milestones.</p>
D.9	Resource Allocation	70 000 000 ALCH (7%) was set aside for the treasury and ecosystem and 50 000 000 ALCH or 5% was earmarked for marketing.
D.10	Planned Use of Collected Funds or Crypto-Assets	Refer to the project team’s official website for any planned use of collected crypto-assets.

Part E - Information about the offer to the public of crypto-assets or their admission to trading

E.1	Public Offering or Admission to trading	ATTR
E.2	Reasons for Public Offer or Admission to trading	Making secondary trading available to the consumers on the Kraken Trading platform in compliance with the MiCA regulatory framework
E.3	Fundraising Target	N/A
E.4	Minimum Subscription Goals	N/A
E.5	Maximum Subscription Goal	N/A
E.6	Oversubscription Acceptance	N/A
E.7	Oversubscription Allocation	N/A
E.8	Issue Price	N/A
E.9	Official currency or other crypto-assets determining the issue price	N/A
E.10	Subscription fee	N/A

E.11	Offer Price Determination Method	N/A
E.12	Total Number of Offered/Traded crypto-assets	1 000 000 000 maximum supply
E.13	Targeted Holders	ALL
E.14	Holder restrictions	N/A
E.15	Reimbursement Notice	N/A
E.16	Refund Mechanism	N/A
E.17	Refund Timeline	N/A
E.18	Offer Phases	N/A
E.19	Early Purchase Discount	N/A
E.20	time-limited offer	N/A
E.21	Subscription period beginning	N/A
E.22	Subscription period end	N/A

E.23	Safeguarding Arrangements for Offered Funds/crypto-assets	N/A
E.24	Payment Methods for crypto-asset Purchase	N/A
E.25	Value Transfer Methods for Reimbursement	N/A
E.26	Right of Withdrawal	N/A
E.27	Transfer of Purchased crypto-assets	N/A
E.28	Transfer Time Schedule	N/A
E.29	Purchaser's Technical Requirements	N/A
E.30	crypto-asset service provider (CASP) name	N/A
E.31	CASP identifier	N/A
E.32	Placement form	NTAV

E.33	Trading Platforms name	N/A
E.34	Trading Platforms Market Identifier Code (MIC)	N/A
E.35	Trading Platforms Access	N/A
E.36	Involved costs	N/A
E.37	Offer Expenses	N/A
E.38	Conflicts of Interest	All listings decisions made by Payward Global Solution Ltd are made independently by staff of the entity in line with internal policies. PGSL publishes a conflicts of interest disclosure on its website advising of potential conflicts that may arise.
E.39	Applicable law	Any dispute relating to this white paper shall be governed by and construed and enforced in accordance with the laws of Ireland without regard to conflict of law rules or principles (whether of Ireland or any other jurisdiction) that would cause the application of the laws of any other jurisdiction, irrespective of whether ALCH tokens qualify as right or property under the applicable law.
E.40	Competent court	Any disputes or claims arising out of this white paper will be subject to the exclusive jurisdiction of the Irish courts.

Part F - Information about the crypto-assets

F.1	Crypto-Asset Type	ALCH is classified as a crypto-asset other than an asset referenced token or e-money token under MiCA, (EU) 2023/1114.
F.2	Crypto-Asset Functionality	Holders of ALCH can use the token to purchase services and digital goods on the platform's marketplace (for example, buying applications or assets created by other users) and to tip or reward content creators.

F.3	Planned Application of Functionalities	All described token functionalities are already active. There are currently no additional announced functionalities pending activation for ALCH.
A description of the characteristics of the crypto-asset, including the data necessary for classification of the crypto-asset white paper in the register referred to in Article 109 of Regulation (EU) 2023/1114, as specified in accordance with paragraph 8 of that Article		
F.4	Type of white paper	OTHR
F.5	The type of submission	NEWT
F.6	Crypto-Asset Characteristics	ALCH is a standard Solana Program Library (SPL) token with a fixed maximum supply of 1 000 000 000 tokens.
F.7	Commercial name or trading name	Not available
F.8	Website of the issuer	https://www.alchemistai.app/
F.9	Starting date of offer to the public or admission to trading	2024-11-28
F.10	Publication date	2025-07-10
F.11	Any other services provided by the issuer	N/A
F.12	Identifier of operator of the trading platform	PGSL

F.13	Language or languages of the white paper	English
F.14	Digital Token Identifier	Not available
F.15	Functionally Fungible Group Digital Token Identifier	N/A
F.16	Voluntary data flag	Mandatory
F.17	Personal data flag	false
F.18	LEI eligibility	N/A
F.19	Home Member State	Ireland
F.20	Host Member States	Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden

Part G - Information on the rights and obligations attached to the crypto-assets

G.1	Purchaser Rights and Obligations	<p>Right to Use and Exchange: Holders of ALCH can use their tokens within the Alchemist AI platform to access and exchange value for services or digital goods (e.g., purchasing applications on the marketplace or tipping creators).</p> <p>Transferability and Trading: Holders have the ability to transfer their ALCH tokens to others (on-chain) or to trade them on available markets at will.</p>
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		Obligations of Holders: There are no mandatory obligations imposed on ALCH purchasers.
G.2	Exercise of Rights and obligations	Usage on Platform: To exercise the utility of ALCH (such as purchasing items on the Alchemist AI marketplace), holders must use the token via the Alchemist AI application or compatible interfaces. This entails having a Solana wallet containing ALCH and interacting with the platform's smart contracts (for example, selecting an application to buy and confirming payment in ALCH). Transfers and Trading: The ability to transfer or trade the token – is exercised through standard blockchain transactions.
G.3	Conditions for modifications of rights and obligations	The rights and obligations attached to ALCH as described in this white paper reflect information available at the time of issuance. This white paper is issued by Kraken and does not constitute a commitment or guarantee by Alchemist AI or any other party regarding future modifications. No promises, warranties, or assurances are made herein regarding future token functionality, and this section is provided solely for informational purposes.
G.4	Future Public Offers	The Alchemist AI project team has not announced any future public offerings of the ALCH token.
G.5	Issuer Retained Crypto-Assets	30 000 000
G.6	Utility Token Classification	false
G.7	Key Features of Goods/Services of Utility Tokens	N/A
G.8	Utility Tokens Redemption	false
G.9	Non-Trading request	This white paper reflects a request to admit the token to trading.

G.10	Crypto-Assets purchase or sale modalities	N/A
G.11	Crypto-Assets Transfer Restrictions	Kraken may, in accordance with applicable laws and internal policies and terms, impose restrictions on buyers and sellers of these tokens.
G.12	Supply Adjustment Protocols	false
G.13	Supply Adjustment Mechanisms	N/A
G.14	Token Value Protection Schemes	false
G.15	Token Value Protection Schemes Description	N/A
G.16	Compensation Schemes	false
G.17	Compensation Schemes Description	N/A
G.18	Applicable law	Any dispute relating to this white paper shall be governed by and construed and enforced in accordance with the laws of Ireland without regard to conflict of law rules or principles (whether of Ireland or any other jurisdiction) that would cause the application of the laws of any other jurisdiction, irrespective of whether ALCH tokens qualify as right or property under the applicable law.
G.19	Competent court	Any disputes or claims arising out of this white paper will be subject to the exclusive jurisdiction of the Irish courts.

Part H – information on the underlying technology

H.1	Distributed ledger technology	ALCH is implemented on the Solana network. Solana is a public blockchain that uses a combination of Proof-of-Stake (PoS) and Proof-of-History (PoH) for consensus. This technology ensures that ALCH transactions can be recorded, validated, and secured in a decentralized manner.
H.2	Protocols and technical standards	The ALCH token is based on the Solana network, which utilizes decentralized Distributed-Ledger Technology. This protocol provides the foundation for secure transactions and smart contracts. SPL Token Standard: The SPL standard is a technical protocol for issuing and managing tokens, ensuring that the ALCH token is compatible with most wallets, exchanges, and decentralized applications (DApps).
H.3	Technology Used	The ALCH token uses the existing SPL token standard on Solana.
H.4	Consensus Mechanism	Solana uses Proof-of-Stake with Tower BFT and Proof-of-History, where leaders are pre-selected by stake and transactions, including ALCH transfers, receive sub-second confirmation and high throughput.
H.5	Incentive Mechanisms and Applicable Fees	ALCH relies on the existing incentive mechanisms and fee structures of the Solana blockchain.
H.6	Use of Distributed Ledger Technology	false
H.7	DLT Functionality Description	N/A
H.8	Audit	false
H.9	Audit outcome	N/A

Part J - Information on the suitability indicators in relation to adverse impact on the climate and other environment-related adverse impacts

S.1	Name	Payward Global Solutions Limited
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S.2	Relevant legal entity identifier	9845003D98SCC2851458
S.3	Name of the crypto-asset	alchemist_ai
S.4	Consensus Mechanism	<p>Solana uses a unique combination of Proof of History (PoH) and Proof of Stake (PoS) to achieve high throughput, low latency, and robust security.</p> <p>Core Concepts:</p> <ol style="list-style-type: none"> 1. Proof of History (PoH): <ul style="list-style-type: none"> - Time-Stamped Transactions: PoH is a cryptographic technique that timestamps transactions, creating a historical record that proves that an event has occurred at a specific moment in time. - Verifiable Delay Function: PoH uses a Verifiable Delay Function (VDF) to generate a unique hash that includes the transaction and the time it was processed. This sequence of hashes provides a verifiable order of events, enabling the network to efficiently agree on the sequence of transactions. 2. Proof of Stake (PoS): <ul style="list-style-type: none"> - Validator Selection: Validators are chosen to produce new blocks based on the number of SOL tokens they have staked. The more tokens staked, the higher the chance of being selected to validate transactions and produce new blocks. - Delegation: Token holders can delegate their SOL tokens to validators, earning rewards proportional to their stake while enhancing the network's security. <p>Consensus Process:</p> <ol style="list-style-type: none"> 1. Transaction Validation: <p>Transactions are broadcast to the network and collected by validators. Each transaction is validated to ensure it meets the network's criteria, such as having correct signatures and sufficient funds.</p> 2. PoH Sequence Generation: <p>A validator generates a sequence of hashes using PoH, each containing a timestamp and the previous hash. This process creates a historical record of transactions, establishing a cryptographic clock for the network.</p> 3. Block Production: <p>The network uses PoS to select a leader validator based on their stake. The leader is responsible for bundling the validated transactions into a block. The leader validator uses the PoH sequence to order transactions within the block, ensuring that all transactions are processed in the correct order.</p>

		<p>4. Consensus and Finalization: Other validators verify the block produced by the leader validator. They check the correctness of the PoH sequence and validate the transactions within the block. Once the block is verified, it is added to the blockchain. Validators sign off on the block, and it is considered finalized.</p> <p>Security and Economic Incentives:</p> <p>1. Incentives for Validators:</p> <ul style="list-style-type: none"> - Block Rewards: Validators earn rewards for producing and validating blocks. These rewards are distributed in SOL tokens and are proportional to the validator's stake and performance. - Transaction Fees: Validators also earn transaction fees from the transactions included in the blocks they produce. These fees provide an additional incentive for validators to process transactions efficiently. <p>2. Security:</p> <ul style="list-style-type: none"> - Staking: Validators must stake SOL tokens to participate in the consensus process. This staking acts as collateral, incentivizing validators to act honestly. If a validator behaves maliciously or fails to perform, they risk losing their staked tokens. - Delegated Staking: Token holders can delegate their SOL tokens to validators, enhancing network security and decentralization. Delegators share in the rewards and are incentivized to choose reliable validators. <p>3. Economic Penalties:</p> <p>Slashing: Validators can be penalized for malicious behavior, such as double-signing or producing invalid blocks. This penalty, known as slashing, results in the loss of a portion of the staked tokens, discouraging dishonest actions.</p>
S.5	Incentive Mechanisms and Applicable Fees	<p>Solana uses a combination of Proof of History (PoH) and Proof of Stake (PoS) to secure its network and validate transactions.</p> <p>Incentive Mechanisms:</p> <p>1. Validators:</p> <ul style="list-style-type: none"> - Staking Rewards: Validators are chosen based on the number of SOL tokens they have staked. They earn rewards for producing and validating blocks, which are distributed in SOL. The more tokens staked, the higher the chances of being selected to validate transactions and produce new blocks. - Transaction Fees: Validators earn a portion of the transaction fees paid by users for the transactions they include in the blocks. This provides an additional financial incentive for validators to process transactions efficiently and maintain the network's integrity. <p>2. Delegators:</p>

		<ul style="list-style-type: none"> - Delegated Staking: Token holders who do not wish to run a validator node can delegate their SOL tokens to a validator. In return, delegators share in the rewards earned by the validators. This encourages widespread participation in securing the network and ensures decentralization. <p>3. Economic Security:</p> <ul style="list-style-type: none"> - Slashing: Validators can be penalized for malicious behavior, such as producing invalid blocks or being frequently offline. This penalty, known as slashing, involves the loss of a portion of their staked tokens. Slashing deters dishonest actions and ensures that validators act in the best interest of the network. - Opportunity Cost: By staking SOL tokens, validators and delegators lock up their tokens, which could otherwise be used or sold. This opportunity cost incentivizes participants to act honestly to earn rewards and avoid penalties. Fees Applicable on the Solana Blockchain <p>Transaction Fees:</p> <p>1. Low and Predictable Fees: Solana is designed to handle a high throughput of transactions, which helps keep fees low and predictable. The average transaction fee on Solana is significantly lower compared to other blockchains like Ethereum.</p> <p>2. Fee Structure: Fees are paid in SOL and are used to compensate validators for the resources they expend to process transactions. This includes computational power and network bandwidth.</p> <p>3. Rent Fees: State Storage: Solana charges rent fees for storing data on the blockchain. These fees are designed to discourage inefficient use of state storage and encourage developers to clean up unused state. Rent fees help maintain the efficiency and performance of the network.</p> <p>4. Smart Contract Fees: Execution Costs: Similar to transaction fees, fees for deploying and interacting with smart contracts on Solana are based on the computational resources required. This ensures that users are charged proportionally for the resources they consume.</p>
S.6	Beginning of the period to which the disclosure relates	2024-05-28
S.7	End of the period to which the disclosure relates	2025-05-28

S.8	Energy consumption	332.42002 kWh/a
S.9	Energy consumption sources and methodologies	<p>The energy consumption of this asset is aggregated across multiple components:</p> <p>To determine the energy consumption of a token, the energy consumption of the network(s) solana is calculated first. For the energy consumption of the token, a fraction of the energy consumption of the network is attributed to the token, which is determined based on the activity of the crypto-asset within the network. When calculating the energy consumption, the Functionally Fungible Group Digital Token Identifier (FFG DTI) is used - if available - to determine all implementations of the asset in scope. The mappings are updated regularly, based on data of the Digital Token Identifier Foundation. The information regarding the hardware used and the number of participants in the network is based on assumptions that are verified with best effort using empirical data. In general, participants are assumed to be largely economically rational. As a precautionary principle, we make assumptions on the conservative side when in doubt, i.e. making higher estimates for the adverse impacts.</p>