MOODY'S INVESTORS SERVICE

CREDIT OPINION

23 February 2024

Update



RATINGS

Alicor	S.A.A
--------	-------

Domicile	Peru
Long Term Rating	Ba1
Туре	LT Corporate Family Ratings
Outlook	Stable

Please see the <u>ratings section</u> at the end of this report for more information. The ratings and outlook shown reflect information as of the publication date.

Contacts

Rosa Morales +52.55.1253.5746 AVP-Analyst rosa.morales@moodys.com

 Marcos Schmidt
 +55.11.3043.7310

 Associate Managing Director
 marcos.schmidt@moodys.com

Fabiola Garrido+52.55.1253.5357Ratings Associatefabiola.garrido@moodys.com

CLIENT SERVICES

Americas	1-212-553-1653
Asia Pacific	852-3551-3077
Japan	81-3-5408-4100
EMEA	44-20-7772-5454

Alicorp S.A.A.

Update following downgrade to Ba1, outlook changed to stable

Summary

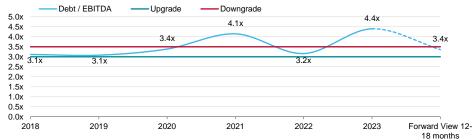
On 19 January 2024, we downgraded the rating of <u>Alicorp S.A.A.</u>'s senior unsecured global notes to Ba1 from Baa3. The downgrade reflects our view that although Alicorp's operating performance in the core business has improved sequentially, its consolidated business profile remains constrained by the weak performance of and working capital pressure in its aquafeed and crushing businesses, which lead to volatility in credit metrics and a business profile that does not support an investment-grade rating.

Alicorp's Ba1 senior unsecured rating and corporate family rating (CFR) are supported by its leading market position in <u>Peru</u> (Baa1 negative) in key product categories, extensive and hard-to-replicate distribution network, and experienced management team with a successful track record of completing acquisitions and product innovation. Despite competing with large multinational companies and local enterprises, Alicorp has been able to maintain its market leadership because of its broad product portfolio and strong brand recognition.

The ratings are constrained by the company's small size relative to its global peers, limited geographic diversification given its concentration in Peru and certain Latin American markets with weak economies, and exposure to commodity price volatility as a raw material and through its crushing business.

Exhibit 1

Alicorp is weakly positioned in the current rating category



All figures and ratios are calculated using our estimates and standard adjustments. Periods are financial year-end unless indicated. LTM = Last 12 months.

Moody's forecasts are Moody's opinion and do not represent the views of the issuer. Sources: Moody's Financial Metrics™ and Moody's Investors Service forecasts

Credit strengths

- » Leading market position in Peru, its largest market, with an extensive and difficult-to-replicate distribution network
- » Good segment and product diversification
- » Good liquidity
- » Experienced management team

Credit challenges

- » Volatility in credit metrics, which are currently weak for the rating category
- » Consumers' weakening purchasing power, coupled with inflationary pressures, to limit margin improvement
- » Limited geographic diversification, which exposes Alicorp to low-rated countries
- » History of M&A

Rating outlook

The stable rating outlook reflects our expectation that Alicorp will be able to recover its credit metrics and maintain good liquidity as its operating performance modestly improves in 2024 on the back of productivity initiatives.

Factors that could lead to an upgrade

An upgrade of Alicorp's ratings would require an improved business profile with reduced volatility in credit metrics and sustained growth in revenue, profitability and free cash flow (FCF), along with consistently strong liquidity.

Without greater stability, we could also upgrade the ratings if:

- » the company manages to reduce and sustain its leverage below Moody's-adjusted debt/EBITDA 3.0x; and
- » its Moody's-adjusted EBIT/interest expense remains above 3.5x on a sustained basis.

Factors that could lead to a downgrade

A rating downgrade could be triggered if Alicorp's:

- » debt/EBITDA remains above 3.5x; or
- » EBIT/interest expense does not recover toward 3.5x.

A deterioration in Alicorp's liquidity and operating performance, increased payouts to shareholders or large debt-financed acquisitions could also lead to a rating downgrade.

This publication does not announce a credit rating action. For any credit ratings referenced in this publication, please see the issuer/deal page on https://ratings.moodys.com for the most updated credit rating action information and rating history.

Key indicators

Exhibit 2 Alicorp S.A.A.

US Millions	Dec-18	Dec-19	Dec-20	Dec-21	Dec-22	Dec-23	Moody's 12-18 month forward view
Revenue	2,522.5	2,958.8	2,676.9	3,153.5	4,018.5	3,651.3	3,555.3
EBITA Margin %	10.7%	10.7%	9.5%	7.7%	8.1%	6.1%	6.8%
Debt / EBITDA	3.1x	3.1x	3.4x	4.1x	3.2x	4.4x	3.4x
RCF / Net Debt	15.0%	9.6%	5.7%	-7.7%	17.8%	8.4%	21.1%
EBITA / Interest Expense	5.8x	3.8x	3.4x	3.4x	4.5x	2.4x	3.1x

All figures and ratios are calculated using our estimates and standard adjustments. Periods are financial year-end unless indicated. LTM = Last 12 months. Moody's forecasts are Moody's opinion and do not represent the views of the issuer.

Sources: Moody's Financial Metrics™ and Moody's Investors Service forecasts

Profile

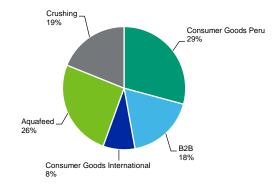
Alicorp S.A.A. is a Peruvian manufacturer and distributor of consumer goods (food, home and personal care products), branded business-to-business (B2B) products (bakeries, industrial products and food services) and aquafeed (shrimp and fish feed). The company also has a crushing business of soybean and sunflower beans; produces oil, flour and seeds; and sells fertilizers.

Alicorp's products are sold under four different lines of business that have different market dynamics: consumer goods (37% of revenue), branded B2B products (18%), aquafeed (26%) and crushing (19%). The company's largest business segment, consumer goods, is divided into two categories: food, and home and personal care products.

Alicorp's revenue mainly comes from Peru, where it generated 56% of its consolidated revenue in 2022, followed by <u>Ecuador</u> (Caa3 stable), <u>Chile</u> (A2 stable) and <u>Bolivia</u> (Caa1 negative).

The company is majority-owned by Grupo Romero (55.79% share). Alicorp reported revenue of PEN13,656 million for the 12 months that ended December 2023.

Exhibit 3 Alicorp's revenue breakdown by line of business, year-end 2023



Source: Company filings

Detailed credit considerations

Higher-than-expected volatility and weak recovery in some segments will delay a substantial improvement in credit metrics

We expect a modest improvement in profitability, with 6.8% EBITA in 2024, up from 6.1% as of December 2023, driven by the company's implemented changes since 2022, such as exiting some of its production lines, simplifying its distribution network, consolidating production centers, and modifying its supply chain model to improve productivity and reduce working capital requirements. The impact of these initiatives amounted to PEN41 million in 2023, with PEN20 million recorded in the third quarter of 2023 alone. The changes already translated into an improved EBITDA margin in Q4 2023 because the company does not expect additional expenses related to these initiatives.

As of December 2023, Alicorp's leverage declined to 4.4x from its peak of 4.9x in September 2023 on debt reduction, and we expect this metric to reach 3.4x as of December 2024. While debt reduction was mostly related to the working capital requirements of the crushing business, we expect consolidated leverage to decline toward the company's internal net leverage target of 2.5x (around 3x as adjusted by Moody's), driven by the company's own cash generation. However, given the crushing business' working capital cycle, the reduction in leverage will not be linear and will peak in Q3 2024 as the business builds up inventory before collecting cash in the last quarter.

The company has been successfully executing its strategy and gradually recovering the key metrics in its consumer business in Peru. However, its aquafeed and crushing businesses will remain constrained by volatility in commodity prices and lower demand in China, factors that are outside of the company's control.



Exhibit 4 Despite improvements in 2022, profitability has eroded since 2020

Consumer goods (37% of revenue 2023)

The company's business strategy is focused on pushing its flagship products in the traditional channel. While this had a negative impact on volumes, the focus of the company is to recover profitability. Alicorp implemented some changes in 2022 to improve productivity and reduce working capital requirements.

In the international business, volumes and profitability will remain under pressure as consumers' purchasing power remain fragile through 2024.

Since 2020, volumes increased on higher in-home consumption; however, weak purchasing power undermined Alicorp's ability to increase prices or push its tier-one products, particularly in the traditional channel. This situation led to a deterioration in the company's profitability that bottomed in 2022.

B2B (18% of revenue)

Alicorp remains focused on sustaining margins, and the strategy has been further supported by lower commodity prices, leading to a 20% year-on-year increase in adjusted EBITDA in 2023, per the company's filings. The improvement considers a weak Q1 2023 because

of the <u>unrest and operational disruptions in Peru since December 2022</u> that led consumer companies such as Alicorp to limit some logistics activities preemptively in the southern cities of Arequipa, Cusco and Juliaca in early 2023. Therefore, we expect the positive trend to continue in 2024.

Aquafeed (27% of revenue)

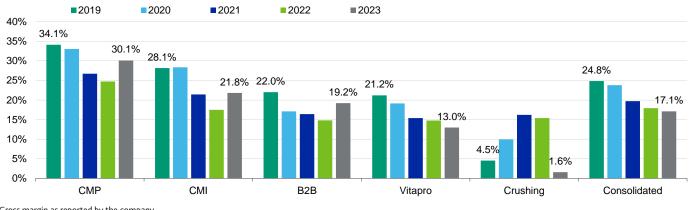
This business segment is struggling because of price reductions and aggressive competition, with shrimp prices having dropped particularly during H2 2023. With farmers shifting to lower-tier feeds, and searching for larger discounts and better commercial terms, competitive pressures will persist through mid-2024.

Crushing (17% of revenue)

Since 2022, the crushing business has faced more volatility than we initially expected. In 2022, its EBITDA was around \$120 million, equivalent to 25% of the consolidated figure, but it dropped to negative \$10 million for full-year 2023. Besides the margin volatility, the crushing business also drives significant working capital swings, which the company finances with short-term debt during the second and third quarters of every year. The company hedges inventory to protect prices; however, in 2023, Alicorp was not able to hedge the entirety of it, triggering additional losses in the year.

Exhibit 5

Mixed segment recovery, but consolidated gross margin remains at historically low levels Gross margin per segment and consolidated



Gross margin as reported by the company. Source: Alicorp

Leading market position in Peru, with an extensive distribution network

Alicorp has brands across premium, mainstream and value segments, which allow it to reach a broader customer base with different disposable incomes through a differentiated pricing strategy. In the past, this strategy allowed the company to sustain and even increase volumes sold; however, the mix has strained profitability, in line with lower disposable income.

Alicorp's countrywide distribution network in Peru is a credit strength. The company sells its products in the country through around 110,000 points of sale in the traditional (77%) channel and more than 3,500 points of sale in the modern (23%) channel. Alicorp sells to third-party exclusive distributors (32%), wholesalers (11%), nonexclusive distributors (34%) and directly to supermarkets (23%). In Ecuador, Alicorp has two distribution networks in key regions through local distributors; in Bolivia, Alicorp distributes using its own network, while in Chile, the company covers key regions through third-party distributors.

Ample product portfolio and a sound market leader with a high degree of innovation

Since May 2023, Alicorp changed its strategy to focus on its core brands and the traditional channel to recover profitability. Alicorp has a leading market position in Peru in its key product categories, which include industrial baking flour, industrial oils, edible oils, laundry detergents, pasta, cookies and crackers, shortenings and mayonnaise, among others. Despite competing with large multinational companies and local enterprises, Alicorp has historically been able to maintain its market leadership because of its broad product portfolio that targets all socioeconomic segments, product innovation, extensive distribution network and strong brand recognition.

Alicorp's diversification by product is high, with each product category accounting for less than 7% of revenue in the consumer goods and B2B segments. In consumer goods in Peru, the largest category is laundry detergents, which has six leading brands and contributes 6.9% to consolidated revenue. Edible oils contribute 5.9% to the company's revenue and pasta contributes 3.5%. In the B2B segment, industrial baking flour accounts for 6.5% of the company's revenue and industrial oil accounts for 5.5%. As for aquafeed, shrimp feed is the largest category, contributing 17%.

Geographic diversification exposes Alicorp to countries with lower ratings

Despite the benefits from increased geographic diversification, the company's presence in weaker economies such as Ecuador and Bolivia exposes it to inflationary environments besides foreign-exchange volatility in Peru.

We revised down our GDP growth estimate for Peru to 0% in 2023 and 2.7% in 2024. We expect Bolivia to grow 1.8% in 2023 and 1.9% in 2024. The main challenges relate to social, economic and political disruptions. In Bolivia, the drop in liquid international reserves has precipitated a confidence shock that has undermined macrofinancial stability. In Ecuador, the government will face difficulties in advancing macrofiscal adjustments that promote firmer economic growth, regaining access to international markets and ensuring policy continuity through successive governments. To offset some of these risks, Alicorp funds these subsidiaries in the local markets and arranges commercial activities through its trading company in Uruguay. In addition, the company does not have substantial assets in Ecuador, as it manufactures its products in Peru and exports to Ecuador instead.

Alicorp has expanded its international operations over the last few years, but Peru remains its largest market, accounting for 56% of consolidated revenue in 2023. Alicorp has a track record of completing acquisitions. Since 2012, the company has successfully closed nine M&A transactions of local and international companies.

ESG considerations

Alicorp S.A.A.'s ESG credit impact score is CIS-3

Exhibit 6 ESG credit impact score



Source: Moody's Investors Service

Alicorp's **CIS-3** indicates that ESG considerations have a limited impact on the current credit rating with potential for greater negative impact over time. ESG scores reflect the company's policies to sustain adequate liquidity and net leverage at its 2.5x public target. At the same time, the score reflects its reliance on natural capital and the environmentally sustainable procurement of some of these raw materials, coupled with moderately negative demographic and societal trend risks due to the evolving focus on health concerns that may impact consumer demand and brand perception.

Exhibit 7 ESG issuer profile scores



Source: Moody's Investors Service

Environmental

Alicorp's exposure to environmental risks reflects the impact arising from the environmentally sustainable procurement of some raw materials. It also reflects the exposure to waste and pollution reflecting the waste created from products packaging material that often cannot be recycled. Alicorp focuses on energy consumption, packaging and waste management and has modified its plants for better energy consumption and to use machinery more efficiently. In previous years, the company has successfully recycled 53% of its waste and is also constantly innovating its packaging to make them more ecological.

Social

Alicorp's exposure to social risks reflects the sourcing of a number of raw materials, including soybean, sunflower, among others. The company is also exposed to health and safety considerations across its business segments but particularly related to its consumer business. We also consider customer relations and demographic and societal trend risks to be moderately negative due to the evolving focus on health concerns, particularly related to some of the products in Alicorp's portfolio like cookies and industrial baking flour, etc. To mitigate this, Alicorp focuses in nutrition and health and complies using natural ingredients and in line with the international regulations of the CODEX Alimentarius and the Food and Drug Administration.

Governance

Alicorp's exposure to governance considerations reflects the company's financial policies with a public target net leverage ratio of 2.5x. In August 2022, Alicorp closed a \$120 million committed facility available until August 2025 that will further support liquidity. In addition, the governance score considers stable dividend payouts at around PEN 200 million per year and subject to the company's net leverage ratio; therefore, we expect the company to refrain from paying dividends during the periods in which leverage is above the target . Alicorp is a public company and is majority owned and controlled by Grupo Romero (55.79% stake), one of the largest conglomerates in Peru. The board includes nine members, out of which 33% are independent members.

Liquidity analysis

Alicorp has good liquidity, which as of December 2023, included PEN1,397 million in cash, further supported by the company's \$120 million committed facility available until 2025 and our expectation of positive FCF in 2024.

The working capital cycle at the crushing business could squeeze liquidity, particularly in the second and third quarters of the year; however, the company has demonstrated ample access to local and international banks through advised credit facilities to cover these needs and refinance debt. In addition, the company's committed facility is fully available.

We assume that excess cash flow generated in 2024 will be directed toward debt reduction and that the company will refrain from paying dividends in 2024, or as long as its reported net leverage remains above its internal target of 2.5x (around 3x as adjusted by Moody's).

Exhibit 8



Debt maturity profile

As of December 2023. Committed Facilities includes a portion of Vitapro Term Loan Commitment Exchange rate 2023: 3.74 \$/PEN, 2024: 3.85 \$/PEN.

Source: Company filings

Methodology and scorecard

The principal methodology used in rating Alicorp was our <u>Consumer Packaged Goods</u> rating methodology, published in June 2022. The scorecard-indicated outcome is Ba2 based on historical financials and Ba1 in our projections, in line with the company's assigned rating, reflecting a modest improvement in its margins and debt reduction with excess cash flow, absent dividend payments.

Exhibit 9 Rating factors Alicorp S.A.A.

Methodology: Consumer Packaged Goods	Curre 12/31/2	Moody's Forward View Next 12-18 months (as of Feb-24)		
Factor 1: SCALE (20%)	Measure	Score	Measure	Score
a) Revenue (USD Billion)	\$3.7	Ba	\$3.6	Ва
Factor 2: BUSINESS PROFILE (30%)				
a) Geographic Diversification	В	В	В	В
b) Segmental Diversification	Baa	Baa	Baa	Baa
c) Market Position	A	A	A	А
d) Category Assessment	A	A	A	А
Factor 3: PROFITABILITY (10%)				
a) EBITA Margin	6.1%	Caa	6.8%	Caa
Factor 4: LEVERAGE AND COVERAGE (25%)				
a) Debt / EBITDA	4.4x	Ba	3.4x	Baa
b) RCF / Net Debt	8.4%	В	21.1%	Baa
c) EBITA / Interest Expense	2.4x	В	3.1x	Ва
Factor 5: FINANCIAL POLICY (15%)				
a) Financial Policy	Ва	Ва	Ва	Ba
Rating:				
a) Scorecard-Indicated Outcome		Ba2		Ba1
b) Actual Rating Assigned				Ba1

[1] All ratios are based on Adjusted financial data and incorporate Moody's Global Standard Adjustments for Non-Financial Corporations.

[2] As of 12/31/2023(L).

[3] This represents Moody's forward view; not the view of the issuer, and unless noted in the text, does not incorporate significant acquisitions and divestitures. Sources: Moody's Financial Metrics™ and Moody's Investors Service forecasts

Appendix

Exhibit 10 Moody's-adjusted debt breakdown Alicorp S.A.A.

(in US Millions)	FYE Dec-18	FYE Dec-19	FYE Dec-20	FYE Dec-21	FYE Dec-22	FYE Dec-23
As Reported Debt	1,000.8	1,268.1	1,098.5	1,316.2	1,304.3	1,349.7
Pensions	0.0	0.0	0.0	0.0	0.0	0.0
Operating Leases	0.0	0.0	0.0	0.0	0.0	0.0
Moody's-Adjusted Debt	1,000.8	1,268.1	1,098.5	1,316.2	1,304.3	1,349.7

All figures are calculated using Moody's estimates and standard adjustments. Source: Moody's Financial Metrics™

Exhibit 11

Moody's-adjusted EBITDA breakdown Alicorp S.A.A.

(in US Millions)	FYE Dec-18	FYE Dec-19	FYE Dec-20	FYE Dec-21	FYE Dec-22	FYE Dec-23
As Reported EBITDA	320.0	397.0	322.3	326.9	381.1	310.8
Unusual	10.2	11.5	13.7	0.0	29.4	7.3
Non-Standard Adjustments	0.0	0.0	0.0	0.0	0.0	0.0
Moody's-Adjusted EBITDA	330.2	408.5	336.0	326.9	410.5	303.5

All figures are calculated using Moody's estimates and standard adjustments. Source: Moody's Financial Metrics™

Ratings

Exhibit 12

Category	Moody's Rating
ALICORP S.A.A.	
Outlook	Stable
Corporate Family Rating	Ba1
Senior Unsecured -Dom Curr	Ba1

Source: Moody's Investors Service

© 2024 Moody's Corporation, Moody's Investors Service, Inc., Moody's Analytics, Inc. and/or their licensors and affiliates (collectively, "MOODY'S"). All rights reserved. CREDIT RATINGS ISSUED BY MOODY'S CREDIT RATINGS AFFILIATES ARE THEIR CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT-LIKE SECURITIES, AND MATERIALS, PRODUCTS, SERVICES AND INFORMATION PUBLISHED OR OTHERWISE MADE AVAILABLE BY MOODY'S (COLLECTIVELY, "MATERIALS") MAY INCLUDE SUCH CURRENT OPINIONS. MOODY'S DEFINES CREDIT RISK AS THE RISK THAT AN ENTITY MAY NOT MEET ITS CONTRACTUAL FINANCIAL OBLIGATIONS AS THEY COME DUE AND ANY ESTIMATED FINANCIAL LOSS IN THE EVENT OF DEFAULT OR IMPAIRMENT. SEE APPLICABLE MOODY'S RATING SYMBOLS AND DEFINITIONS PUBLICATION FOR INFORMATION ON THE TYPES OF CONTRACTUAL FINANCIAL OBLIGATIONS ADDRESSED BY MOODY'S CREDIT RATINGS. CREDIT RATINGS DO NOT ADDRESS ANY OTHER RISK, INCLUDING BUT NOT LIMITED TO: LIQUIDITY RISK, MARKET VALUE RISK, OR PRICE VOLATILITY. CREDIT RATINGS, NON-CREDIT ASSESSMENTS ("ASSESSMENTS"), AND OTHER OPINIONS INCLUDED IN MOODY'S MATERIALS ARE NOT STATEMENTS OF CURRENT OR HISTORICAL FACT. MOODY'S MATERIALS MAY ALSO INCLUDE QUANTITATIVE MODEL-BASED ESTIMATES OF CREDIT RISK AND RELATED OPINIONS OR COMMENTARY PUBLISHED BY MOODY'S ANALYTICS, INC. AND/OR ITS AFFILIATES. MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS DO NOT CONSTITUTE OR PROVIDE INVESTMENT OR FINANCIAL ADVICE, AND MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS DO NOT COMMENT ON THE SUITABILITY OF AN INVESTMENT FOR ANY PARTICULAR INVESTOR. MOODY'S ISSUES ITS CREDIT RATINGS, ASSESSMENTS AND OTHER OPINIONS AND PUBLISHES OR OTHERWISE MAKES AVAILABLE ITS MATERIALS WITH THE EXPECTATION AND UNDERSTANDING THAT EACH INVESTOR WILL, WITH DUE CARE, MAKE ITS OWN STUDY AND EVALUATION OF EACH SECURITY THAT IS UNDER CONSIDERATION FOR PURCHASE, HOLDING, OR SALE.

MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS, AND MATERIALS ARE NOT INTENDED FOR USE BY RETAIL INVESTORS AND IT WOULD BE RECKLESS AND INAPPROPRIATE FOR RETAIL INVESTORS TO USE MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS OR MATERIALS WHEN MAKING AN INVESTMENT DECISION. IF IN DOUBT YOU SHOULD CONTACT YOUR FINANCIAL OR OTHER PROFESSIONAL ADVISER.

ALL INFORMATION CONTAINED HEREIN IS PROTECTED BY LAW, INCLUDING BUT NOT LIMITED TO, COPYRIGHT LAW, AND NONE OF SUCH INFORMATION MAY BE COPIED OR OTHERWISE REPRODUCED, REPACKAGED, FURTHER TRANSMITTED, TRANSFERRED, DISSEMINATED, REDISTRIBUTED OR RESOLD, OR STORED FOR SUBSEQUENT USE FOR ANY SUCH PURPOSE, IN WHOLE OR IN PART, IN ANY FORM OR MANNER OR BY ANY MEANS WHATSOEVER, BY ANY PERSON WITHOUT MOODY'S PRIOR WRITTEN CONSENT. FOR CLARITY, NO INFORMATION CONTAINED HEREIN MAY BE USED TO DEVELOP, IMPROVE, TRAIN OR RETRAIN ANY SOFTWARE PROGRAM OR DATABASE, INCLUDING, BUT NOT LIMITED TO, FOR ANY ARTIFICIAL INTELLIGENCE, MACHINE LEARNING OR NATURAL LANGUAGE PROCESSING SOFTWARE, ALGORITHM, METHODOLOGY AND/OR MODEL.

MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS ARE NOT INTENDED FOR USE BY ANY PERSON AS A BENCHMARK AS THAT TERM IS DEFINED FOR REGULATORY PURPOSES AND MUST NOT BE USED IN ANY WAY THAT COULD RESULT IN THEM BEING CONSIDERED A BENCHMARK.

All information contained herein is obtained by MOODY'S from sources believed by it to be accurate and reliable. Because of the possibility of human or mechanical error as well as other factors, however, all information contained herein is provided "AS IS" without warranty of any kind. MOODY'S adopts all necessary measures so that the information it uses in assigning a credit rating is of sufficient quality and from sources MOODY'S considers to be reliable including, when appropriate, independent third-party sources. However, MOODY'S is not an auditor and cannot in every instance independently verify or validate information received in the credit rating process or in preparing its Materials. To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability to any person or entity for any indirect, special, consequential, or incidental losses or damages whatsoever arising from or in connection with the information chained herein or the use of or inability to use any such information, even if MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers is advised in advance of the possibility of such losses or damages, including but not limited to: (a) any loss of present or prospective profits or (b) any loss or damage arising where the relevant financial instrument is not the subject of a particular credit rating assigned by MOODY'S.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability for any direct or compensatory losses or damages caused to any person or entity, including but not limited to by any negligence (but excluding fraud, willful misconduct or any other type of liability that, for the avoidance of doubt, by law cannot be excluded) on the part of, or any contingency within or beyond the control of, MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers, arising from or in connection with the information contained herein or the use of or inability to use any such information.

NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, TIMELINESS, COMPLETENESS, MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF ANY CREDIT RATING, ASSESSMENT, OTHER OPINION OR INFORMATION IS GIVEN OR MADE BY MOODY'S IN ANY FORM OR MANNER WHATSOEVER.

Moody's Investors Service, Inc., a wholly-owned credit rating agency subsidiary of Moody's Corporation ("MCO"), hereby discloses that most issuers of debt securities (including corporate and municipal bonds, debentures, notes and commercial paper) and preferred stock rated by Moody's Investors Service, Inc. have, prior to assignment of any credit rating, agreed to pay to Moody's Investors Service, Inc. for credit ratings opinions and services rendered by it. MCO and Moody's Investors Service also maintain policies and procedures to address the independence of Moody's Investors Service credit ratings and credit rating processes. Information regarding certain affiliations that may exist between directors of MCO and rated entities, and between entities who hold credit ratings from Moody's Investor Service, Inc. and have also publicly reported to the SEC an ownership interest in MCO of more than 5%, is posted annually at <u>www.moodys.com</u> under the heading "Investor Relations — Corporate Governance — Charter Documents - Director and Shareholder Affiliation Policy."

Moody's SF Japan K.K., Moody's Local AR Agente de Calificación de Riesgo S.A., Moody's Local BR Agência de Classificação de Risco LTDA, Moody's Local MX S.A. de C.V, I.C.V., Moody's Local PE Clasificadora de Riesgo S.A., and Moody's Local PA Calificadora de Riesgo S.A. (collectively, the "Moody's Non-NRSRO CRAs") are all indirectly wholly-owned credit rating agency subsidiaries of MCO. None of the Moody's Non-NRSRO CRAs is a Nationally Recognized Statistical Rating Organization.

Additional terms for Australia only: Any publication into Australia of this document is pursuant to the Australian Financial Services License of MOODY'S affiliate, Moody's Investors Service Pty Limited ABN 61 003 399 657AFSL 336969 and/or Moody's Analytics Australia Pty Ltd ABN 94 105 136 972 AFSL 383569 (as applicable). This document is intended to be provided only to "wholesale clients" within the meaning of section 761G of the Corporations Act 2001. By continuing to access this document from within Australia, you represent to MOODY'S that you are, or are accessing the document as a representative of, a "wholesale client" and that neither you nor the entity you represent will directly or indirectly disseminate this document or its contents to "retail clients" within the meaning of section 761G of the Corporations Act 2001. MOODY'S credit rating is an opinion as to the creditworthiness of a debt obligation of the issuer, not on the equity securities of the issuer or any form of security that is available to retail investors.

Additional terms for India only: Moody's credit ratings, Assessments, other opinions and Materials are not intended to be and shall not be relied upon or used by any users located in India in relation to securities listed or proposed to be listed on Indian stock exchanges.

Additional terms with respect to Second Party Opinions (as defined in Moody's Investors Service Rating Symbols and Definitions): Please note that a Second Party Opinion ("SPO") is not a "credit rating". The issuance of SPOs is not a regulated activity in many jurisdictions, including Singapore. JAPAN: In Japan, development and provision of SPOs fall under the category of "Ancillary Businesse", not "Credit Rating Business", and are not subject to the regulations applicable to "Credit Rating Business" under the Financial Instruments and Exchange Act of Japan and its relevant regulation. PRC: Any SPO: (1) does not constitute a PRC Green Bond Assessment as defined under any relevant PRC laws or regulations; (2) cannot be included in any registration statement, offering circular, prospectus or any other documents submitted to the PRC regulatory authorities or otherwise used to satisfy any PRC regulatory disclosure requirement; and (3) cannot be used within the PRC for any regulatory purpose or for any other purpose which is not permitted under relevant PRC laws or regulators. For the purposes of this disclaimer, "PRC" refers to the mainland of the People's Republic of China, excluding Hong Kong, Macau and Taiwan.

REPORT NUMBER 1397452

CLIENT SERVICES

Americas	1-212-553-1653
Asia Pacific	852-3551-3077
Japan	81-3-5408-4100
EMEA	44-20-7772-5454

MOODY'S INVESTORS SERVICE