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UNITED STATES OF AMERICA BEFORE THE FEDERAL TRADE COMMISSION

COMMI SSIONERS: Maureen Ohlhausen, Acting Chairman Terrell McSweeny

In the Matter of

Tronox Limited a corporation,

National Industrialization Company (TASNEE) a corporation,

National Titanium Dioxide Company Limited (Cristal) a corporation,

And

Cristal USA Inc. a corporation. Docket No. 9377

5 (' \$ & 7 (' PUBLIC VERSION

COMPLAINT

Pursuat to the provisions of the Federal Trade Commission Act ("ACC), and by virtue of the authority vested in it by the FTC Act, the Federal Trade Commission ("Commission") having reason to believe that Respondents Tronox Lin("Treenox") and National Titanium Dioxide Company Limited ("Cristal") have executed a merger agreement violation of Section 5 of the FTC Act, 15 U.S.C. § 45, which if consummated would violate Section 7 of the Clayton Act, as amended, 15 U.S.C. § 18, and Section 5 of the FTC Act, and it appearing to the Commission that a proceeding by it in respect thereof would be in the public interest, hereby issues its complaint pursuant to Section 5(b) of the FTC Act, 15 U.S.C. § 45(b), and Section 11(b) of the Clayton Act, 15 U.S.C. § 21(b), stating its chargeboas f

manufactured using either the chloride process, which comprises the vast majority of TiO2 produced and purchased in North America, or the sulfate process ("sulfate TiO2").

2. The U.S. Court of Appeals for the Third Circuit recentharacterizedhe TiO2 industry as an "oligopoly" that is "dominated by a handful of firmwith "substantial barriers to entry." Absent injunctive relief, two firms, Tronox and The Chemours Company ("Chemours"), would control the vast majority of chloride TiO2 sales to North American customers and more than 80 percent of overall North American chloride TiO2 anufacturing capacityThe proposed Acquisition would substantially increase concentration in an already concentrated market and would result in postAcquisition market concentration levels for the salehdoride TiO2 to North American customers that exceed those presumed likely to result in anticompetitive effects under both the Federal Trade Commission and U.S. Department of Justice Horizontal Merger Guidelines") and the relevant case law.

3. The Acquisition would substantially lessen competition in the North American market forchloride TiO2in at least two waysFirst, the Acquisition would increase the likelihood of coordination in an already metrable oligopoly market with an extensive history of price-fixing litigation and settlementslt removes one of only a few remaining competitors; consolidates the overwhelming majorito for North Americarchloride TiO2sales and production nic Tw -30.0 Tw -30.0 Tw -30.0 52(i)-2(1t5T s)-1(i)-3()-103he artme89 0 d4 Tc 0.004c-2(t)-2(p1 0 Td (

sufficient to offset the Acquisition's anticompetiziveffects is also unlikely. Over the last decade, more North American Ti@2oduction capacity has beærmoved through plant and line closures than added by expansions at heincreases in TiO2 imports or other adjustments in global TiO2 trade flows likely to offset the anticompetitive effects of the Acquisition

6. Respondents cannot show cognizable efficiencies that would offset the likely and substantial competitive harm from the Acquisition.

II. JURISDICTION AND VENUE

7. Respondents are, and at allevelint times have been, engaged in activities in or affecting "commerce" as defined in Section 4 of the FTC Act, 15 U.S.C. § 44, and Section 1 of the Clayton Act, 15 U.S.C. § 12.

8. The Acquisition constitutes an acquisition subject to Section 7 of the Clayton Act, 15 U.S.C. § 18.

III. RESPONDENTS

9. Tronox is a publicly traded company incorporated in Australia and headquartered in Stamford, Connecticut. Tronox is a vertically integrated company that mines titanium ore and other minerals and manufactures **ared**s chloride TiO2pigment. In 2016, Tronox's TiO2 business generated both American sales f approximately \$410 million. Tronox operates one TiO2

feedstock facilities in AustraliaBrazil, and Saudi ArabiaCristal is a named party to the Acquisition agreement

12. Cristal USA Inc, a Delawarcorporation, operates a large chloride TiO2 manufacturing complex in Ashtabula, Ohio, and a research facility outside Baltimore, Maryland. Cristal USA's management, including strategy, sales and marketingly is ntegrated into the management and operation of Cristal.

IV. THE ACQUISITION

13. Pursuant to a February 21, 2017 agreement, Tronox seeks to acquire Cristal's TiO2 business for \$1.67 billion in cash and a 24% stake in the combined entity.

V. BACKGROUND

A. Titanium Dioxide

14. TiO2 is an essential pigment used to add whiteness, brightness, and opacity to

B. Market Participants and Industry Dynamics

18. The North American TiO2 industry is an oligopoly dominated by five major producers Tronox, Cristal, Chemours, Kronos, and VenatohiesTe companies produated sell TiO2 both in North America and inother regions All North American production is chloride TiO2 with the exception of a small Kronosowned sulfate TO2 plant in Canada.

19. Chemours, a DuPont sporff, is currently the largest TiO2ompanyin North America and globally. Chemours has two plants in the United States, one in DeLisle, Mississippi and the other in New Johnsonville, Tennessee. Chemours also has plants in Mexico and Asia. Chemours' plants produce only chloride TiO2.

20. The two other major North American Ti@@mpanies-Kronos and Venator jointly own a50-50 joint venture that perates a chloride TiO2 plain Westlake, Louisiana. Kronos also operates a TiO2 plant in Canada and four plants in Europe. Venator, a Huntsman spin-off, operates six TiO2 plants in Europe and one plant in Asia. While Venator is the second largest TiO2companyin the world by capcity, its presence in North Americalimited to half of the output of the joint venture plant in Louisiana—is the smallest among the five major North American producers. Outside of the United States, Kronos and Venator produce both chloride TiO2 (rutile) and sulfate TiO2rutile and anatase).

21. Beyond the major North America TiO2 producers, there are smaller regional manufacturers of TiQ2 primarily locatedn Eastern Europe and Asia. The TiO2 produced by these fringe manufacturers vistually all sulfate TiO2, is generally lower quality that th manufactured by the five major TiO2 companies, and is mostly sold in local or regional markets outside North America. Were the last decade, producers in China have increased their exports of TiO2, primarily into markets in Asia, South America, Europe, and the Middle East. Almost all Chinese TiO2 has been lower quality sulfate TiQ2 nd very little has been exported to North America. Similarly, although few Chinese manufactures have recently egun producing chloride TiO2, their production has been limited, and anly

23. Given relatively inelastic deand for chloride TiO2, the major North American TiO2 producers recognized they limiting the supply of chloride TiO2 vailable in North America they are better able to stabilize or increase North American **FiG2s**. Several of these companies ave curtailed or restricted their North American chloride TiO2 output over the past several yeats prop up prices. Tronox publicly station an earnings call that it manage or restricts production to support higher TiO2 pricing and believes that the other **projeturcers** have done the same. Tronox and major North American production rates, or permanently closing plants. The have also allowed chloride TiO2 inventory to build up, exported North American production, and slowed or delayed buction increases in an effort to increase or maintain higher prices

24. In recent years, Tronox and Chemours have be-2(or)3(otal)-21ent4 Tc 0 djTc 0 dj 20dc 011.9n-219.9n 0 o bu.00. Tonox(ma0(s -38.56-2a)).9ni0.0. Td when [chloride] prices were over \$4,000 per ton," substantially higher than sulfate prices at that time.

33. Competitive conditions differ by region and TiO2 producers employ different pricing strategies for sales in the North American market than in other parts of the was date result, North American purchasers of Ti Care different prices and terms an other regions. Over the past several years of the American prices and margins have generally begins rand more stable than other regions.

34. Beyond pricing differences, North American purchasers of TailSo have a number of distinct demand characteristics compared to TiO2 purchasers in other regions. example, most North American customers buy and strongly favor chloride TiO2

39. In the market for the sale of chloride TiO2 to North American customers ("North American chlorideTiO2 market"), the Acquisition would result in a post-Acquisition HHI exceeding 3,000, with an increase in the HHI of more than 700. Thus, the Acquisition would result in concentration thestablishes a presumption of competitive harm in the North American chloride TiO2 market

40. In the market for the sale of **itet** TiO2 to North American customers (brth Americanrutile TiO2 market"), the Acquisition would result in a postequisition HHI exceeding 2,500, with an increase in the HHI of more than 550. Thus, the Acquisition would result in concentration that establish presumption of competitive harm in the North American rutile TiO2 market.

41. Therefore, the Acquisition is presumptively unlawful under relevant case law and the Merger Guidelines.

VIII.

45. North American chloride TiO2 companies o have a strong awareness of their competitors' pricing. The all issue customer pricing letters and several make public price announcements. Moreover, because many customers have "meet or release" clauses in their contracts, customers often relay competitors' customer pricing information to their TiO2 suppliers.

46. This transparency will only grow with the Acquisition oday Cristal, unlike the other major North American TiO2 companies not a publicly traded company and discloses less detail about its operations. By incorpora Onistal's entire TiO2 production into Tronox, the Acquisition would not only eliminate an important competitor, it would also make information regarding Cristal's operations significantly more accessible to the remaining North American TiO2companies Thus, the Acquisition would further enhance the likelihood for coordination by among other aspects, increasing market transparency among the remaining competitors and making pordination easier to maintain.

47. Having competed against each other in an oligopolistic market environment for many yearsthe major North American TiO2ompanieshave recognized their mutual interdependence and aligned incentives. Tronox, along with the other publicly traded North American TiO2 producers, openly discuss these market dynamics during their public earnings calls. For example, during an earnings call in 2016, Tronox's then-CEO explained the industry's strategy to manage production to drive TiO2 prices higher as follows: "I can tell you thatt... la year, Huntsman, ... Cristal, Chemours, and we all lowered our plant utilization rates. And we all talked about declining inventories which we had set as a goal. That is that we wanted to reduce inven(e)4(s)-1(w)2(hi)-2(c)4dNo

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In a February 2016 presentation to Cristal, consulting firm McKinsey concluded that

The Acquisition is likey to increase the level of anticompetitive conscious parallelism in the North Americaloride TiO2 market, resulting in higher chloride TiO2 prices for consumers.

B. The Acquisition Would Increase Tronox's Incentive and Ability to Curtail Output

50. Tronox has consistently acknowledged the tight link between North American chloride TiO2 priceand North American production. In a 2015 earnings call, Tronox's then-CEO stated that "by managing our production, so that inventories get reduced to normal or below normal levels; and when that happens, prices will rise." Indeed, Tronox built its 2016 budget based on

And Tronox reaffirmed its commitment to this strategy even after agreeing to purchase Cristal, stating that

Allowing Tronox to acquire Cristal, there**b**y ubing its size in North America will increase Tronox's incentive and ability to decrease or re**sult**; intended for North American customers, thus leading to higher prices.

51. Tronox has a history of seeking to support North American chloride TiO2 prices by curtailing output in Noht America. These effor

2016 Tronox document observes,

Consequently, Chinese exponsion America are unlikely to increase substantially for the foreseeable future.

or before the fourteenth (14th) day after service of it upon you. An answer in which the allegations of the complaint are contested shall contain a concise statement of the facts co

- 3. A requirement that, for a period of time, Tronox and Cristal provide prior notice to the Commission of acquisitions, mergers, consolidations, or any other combinations of their businesses in the relevant markets with any other company operating in the relevant markets.
- 4. A requirement to file periodic compliance reports with the Commission.
- 5. Any other relief appropriate to correct or remedy the anticompetitive effects of the transaction or to restore Cristal as a viable, independempetitor in the relevant markets.

IN WITNESS WHEREOF, the Federal Trade Commission has caused this complaint to be signed by its Secretary and its official seal to be hereto affixed, at Washington, D.C., this fifth day of December 2017.

By the Commission.

Donald S. Clark Secretary

SEAL: