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theValenceGroup Chemicals M&A Review

Highlights

- Consolidation has precipitated a sharp decline in number of \$1bn+ independent specialty chemical companies
- Buoyed by M&A and resilient profitability, specialty chemical trading multiples continue to outperform and are now trading at almost double commodity/diversified peers
- More broadly, average chemical company trading multiples remain at 2017 levels with limited signs of weakening as profits and GDP growth in main markets remain robust
- M&A transaction volumes have reached a near eight-year high

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Transaction volumes

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THE CARLYLE GROUP | GIC
have acquired the
Specialty Chemicals business of
AkzoNobel
since renamed
Nouryon
The Valence Group acted as
Financial Advisor to Carlyle

SOLENIS
a portfolio company of
CLAYTON
DUBIELER
& RICE
has announced its merger with the
Paper and Water Chemicals business of
BASF
The Valence Group acted as
Financial Advisor to Solenis

US SILICA
has acquired
Ep Minerals
a portfolio company of
GOLDEN GATE CAPITAL
The Valence Group issued a
Fairness Opinion to the
Board of Directors of U.S. Silica

ITAÚSA
has sold
Elekeiroz
to
H. I. G.
CAPITAL
The Valence Group acted as
Financial Advisor to Itaúsa

Specialty Chemicals Consolidation

One of the most undeniable trends across the chemical industry over the last 10 years has been the continuous level of consolidation across so-called specialty chemicals. There is no real definition of specialty chemicals and the term itself is rather meaningless now that Asian competition has so effectively devalued some product areas, but broadly speaking, it encompasses additives, high performance materials, performance-enhancing chemicals, custom chemicals, fine chemicals, formulated chemicals and sector-specific tailored chemistry (e.g. flavours, electronic chemicals etc). This wide range of sub-sectors has little in common, except that profit margin levels and stability are robust and there are significant barriers to entry such that the threat of new market entrants is generally limited. A more simplistic definition is an EBITDA/revenue margin of greater than c. 18%, with stable growth and limited volatility.

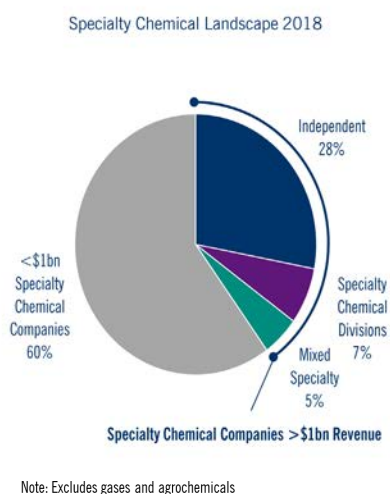
It is precisely these latter qualities that have made the sector so attractive as an M&A target. Combined with competition from China and the Middle East in more established areas of

plastics and base intermediates, US and European companies in particular have continued to build positions in specialties further downstream to protect their businesses. Additionally, incumbents in the sector have also expanded through acquisition to protect themselves and use consolidation to improve the market dynamics.

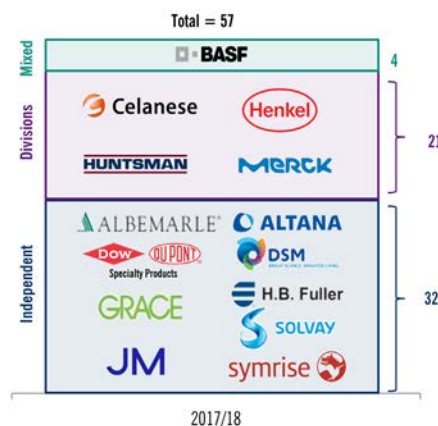
The result has been an increasing number of acquisitions in specialty chemicals in the last 10 years with some of the largest independent companies such as Rhodia, Valspar, Cytec and Taminco all being acquired. In principal, this is nothing new for the chemical industry which has witnessed consolidation over the last 50 years. Some sectors such as agrochemicals have almost completely consolidated.

However, the major difference now is that very few larger specialty chemical companies are being formed, limiting the availability of acquisition targets for further consolidation or downstream expansion. As shown in Figure 1, larger specialty chemical companies with revenue greater than \$1bn constitute c. 40% of the specialty chemicals market. This includes independent companies as well as divisions of larger companies. Examples are shown in Figure 1.

Figure 1: Chemical Company Trading Multiples and Profits



Specialty Chemical Companies >\$1bn (Examples Listed)



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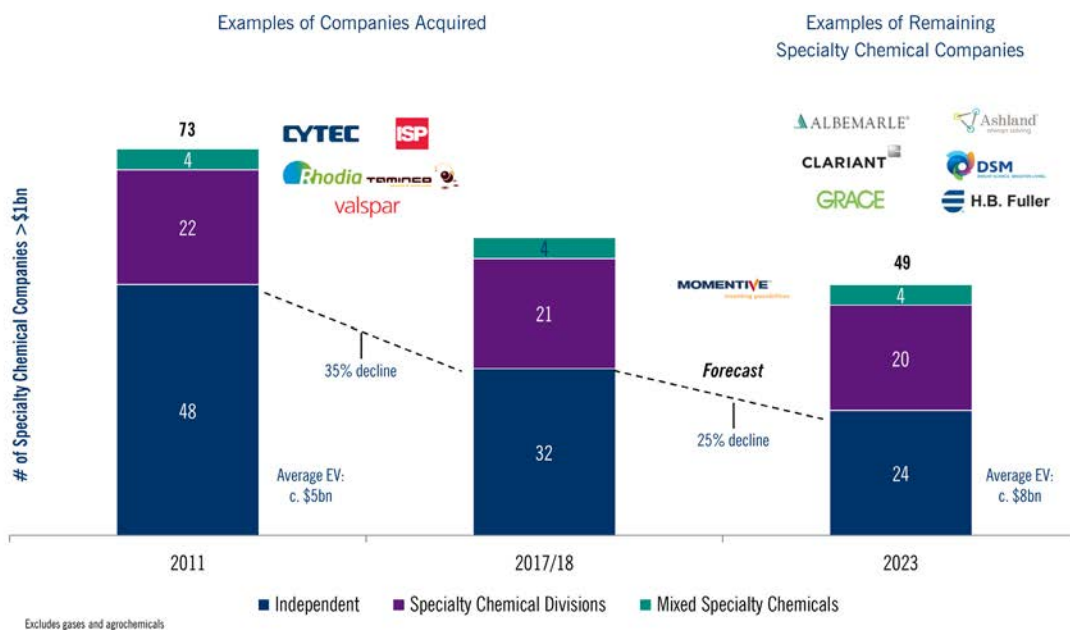
The remainder are many mid-sized companies and also an even longer “tail” of small specialty chemical companies. Many of the smaller companies remain privately owned. If the chart was displayed by overall profits, the larger companies would have a much bigger share of the market by virtue of better market/cost positions and more emphasis on profitability.

At first glance, the number of companies in Figure 1 looks reasonably healthy in terms of possible M&A targets for larger corporates or consolidation partners. However, Figure 2 shows a more disconcerting view. The actual number of large specialty chemical companies has declined significantly in the last 7-8 years with a 35% fall in the number of the \$1bn+ independent specialty chemical companies, from almost 50 to now only 30. (We have deliberately excluded gases and agrochemical companies that have undergone major consolidation recently and would skew the numbers further). Moreover, as many of the smaller companies have

been acquired, the average size by estimated enterprise value (EV) of the remaining companies has increased to c. \$6bn.

Furthermore, when looking ahead and considering which companies are likely consolidators, acquisition/JV targets or potential business splits, our forecast is for another 25% decline in the number of larger specialty chemical companies in the next 5 years. The average EV of these remaining companies would be closer to \$8bn. Therefore very soon, both the availability of actionable M&A in specialty chemicals in the \$1-\$10bn range will be severely diminished and those seeking acquisitions will have a narrow range of options. Indeed this consolidation and decline in the number of possible M&A transactions in the \$1bn+ range of specialty chemicals has already been felt by many companies looking to expand.

Figure 2: Larger Specialty Chemicals M&A Evolution



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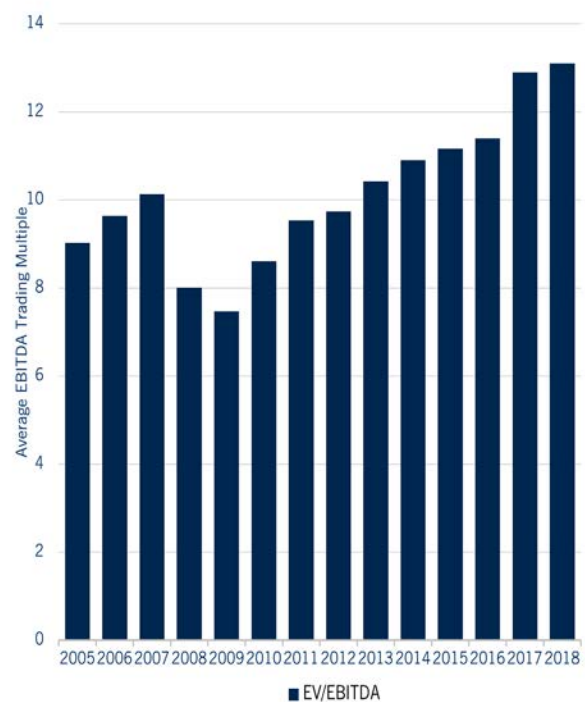
Not only has the availability of opportunities declined, but due to scarcity value and competitive intensity, trading and transaction multiples have increased especially for these specialty chemical companies. It is no longer a rarity to see EV/EBITDA multiples at or above 15x. Hence, not only are M&A options declining but those remaining opportunities are becoming more expensive. Certainly some of the current valuations are linked to stock market levels, but with high profits and limited acquisition options, valuations are unlikely to decline for many of these remaining specialty chemical companies.

Larger companies are already realising the difficulty in both finding and acquiring suitable targets in specialty chemicals. Once some of the remaining opportunities disappear either through consolidation or acquisition, we would expect M&A activity to possibly accelerate. Many companies will feel that to meet their longer term strategic objectives, it will be imperative to use M&A and with a reducing target base, there could be a scramble to acquire the best remaining assets – both large and small.

Specialty Chemical Valuations

It will come as no surprise to learn that public chemical company valuations in 2018 have remained at broadly the same level as last year (Figure 3). Profits remain strong across the sector as GDP has not faltered despite trade disputes and some countries threatening to start an emerging markets crisis. Costs have also stayed subdued and although the oil price has increased, this has mostly benefitted some US commodity suppliers, without significantly impacting US competitiveness or European cost positions. Clearly other factors such as US tax policy have helped to bolster US indices but overall there has been little evidence that any slowdown or market dynamics are changing meaningfully.

Figure 3: Chemical Company Trading Multiples



The Valence Group Analysis based on 59 mostly European and North American chemical companies.

Hence EV/EBITDA multiples have remained broadly in line with last year.

Yet the market is most definitely witnessing a further increase in specialty chemical valuations. As described in the previous section, M&A is a key driver of valuation as more companies chase fewer specialty chemical opportunities and the value of the remaining companies is boosted. Also, as stock prices have continued to increase, any fluctuation in profitability is viewed harshly by the market, thereby benefitting the companies with more stable earnings streams such as specialty chemicals.

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What is remarkable is that the difference has become so pronounced, and Figure 4 shows the marked divergence between valuations across the chemical industry. During 2018, high end specialty chemical companies traded at almost double the level of their commodity and diversified peers. Even mid-tier specialty chemical companies traded higher with an average EV/EBITDA of 13x.

By way of example of the divergence, a comparison of several companies and sub-sectors is informative. In Figure 5 we show how average EBITDA multiples across example relevant sub-sectors have rapidly diverged. Sectors such as Electronic Chemicals and Flavours & Fragrances have seen rapidly increasing share prices and multiples over the last few years. This can only partially be justified by profit growth.

On the contrary, commodity and diversified companies have seen share prices either increase or remain flat, but multiples have traded slightly down as profits have risen.

Figure 4: Chemicals Sector Trading Multiples

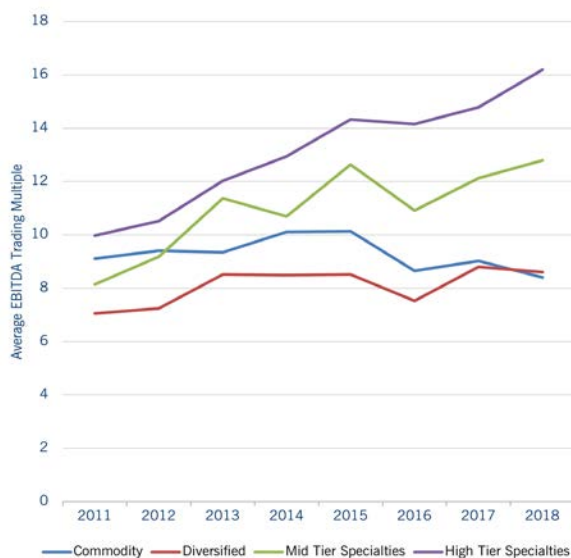
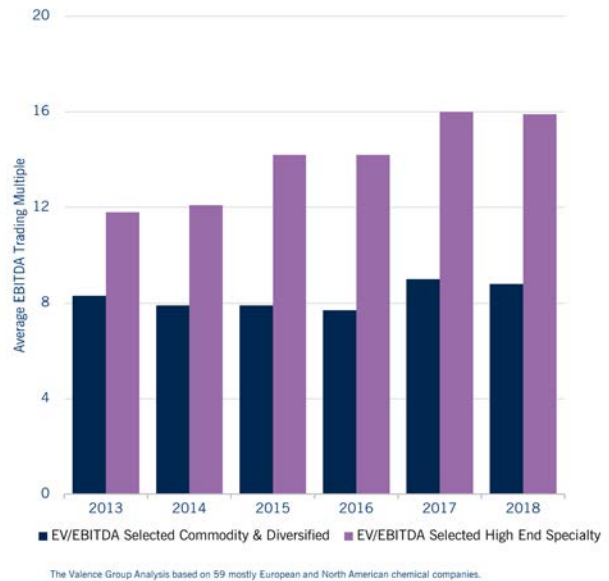


Figure 5: Sub-Sector Trading Multiple Example



Some would argue that this divergence is not justified by business fundamentals as companies such as Covestro, LBI and others are all benefitting from high margins. But, investors are focused on stability of earnings growth and possible M&A takeovers, resulting in almost a dislocation of chemical sub-sector valuations. A mixture of M&A expectations (and scarcity), profit expectations and aversion to volatility in earnings have all combined to deliver this increasing difference between specialty and commodity chemical multiples.

The specialty chemical valuation levels are unlikely to alter much in the short to mid-term, but commodity valuations could show pronounced movements. There is some indication that the commodity cycle in some products (e.g. isocyanates and methyl methacrylate) is coming off recent highs and this could impact valuations across many companies. At this stage, share price declines have been gradual for most companies and valuations (EBITDA multiple) have not changed significantly.

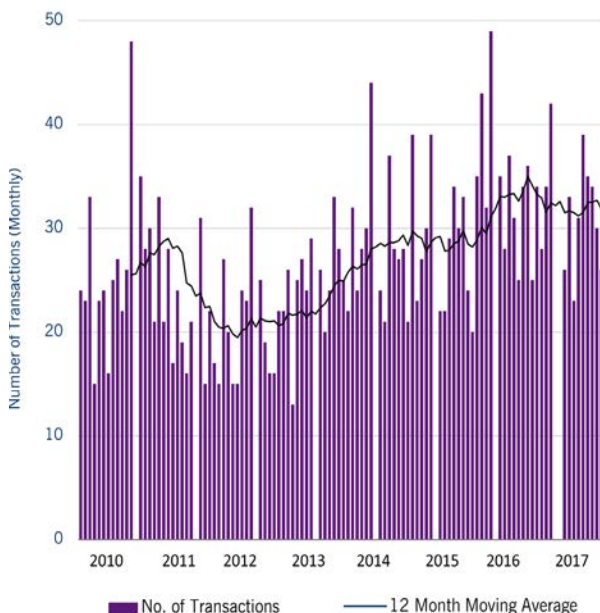
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However if price declines continue, we would expect a change in valuation – either up or down depending on how investors view the future cycle and the impact on earnings. It could actually be that as share prices decrease, valuations for commodity chemical companies increase as investors look to the future and the next upside.

Transactions

The last six months has seen the chemical M&A monthly transaction volume stay at an eight-year high with only vague signs of any possible decline. As shown in Figure 6, volumes have increased steadily since 2012. The current forecast for the remainder of 2018 is for the number of transactions to remain at a high level.

Figure 6: Monthly Chemicals M&A Volume



In the last few years there has been a notable shift in the number of deals in Asia. Specifically there has recently been a steady decline in the number of China-based transactions, especially when compared to earlier in the decade. Although the reason is unclear, it could be linked to the recent government environmental policy which has restricted many smaller chemical company operations (for air quality reasons) or put many companies on notice due to proximity to urban areas. Alternatively, a slowing Chinese economy could be playing a part and will be investigated in the next Newsletter in 2019.

Overall, the outlook is for a strong Q4 2018, with several large possible M&A moves in the pipeline and also several mid-sized transactions. The most recent larger deals had a combined EV of more than \$10bn demonstrating the strength and appetite of the market.

- Korean Consortium (KCC, Wonik and SJL) – Momentive
- UCL – Arysta Lifescience (Platform/Element)
- BASF – Bayer Crop Science
- Cabot Micro – KMG
- KKR - LCY

Although 2019 is unlikely to see much change in the chemicals M&A market, we expect some of the larger public specialty companies to succumb to successful takeovers so it could be a year of change.



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The Valence Group team includes a unique combination of professionals with backgrounds in investment banking, strategic consulting and senior management within the chemicals and materials industries, all focused exclusively on providing M&A advisory services to the chemicals and materials sector.

The firm's offices are located in New York and London.

ChemicalInvest
a joint venture of
 
is selling

to

The Valence Group acted as
Financial Advisor to ChemicalInvest


has acquired the
Fire Safety and Oil Additives businesses of

The Valence Group acted as
Financial Advisor to SK Capital


a portfolio company of

has acquired the
Bleaching Clay & Mineral Adsorbents
business of

The Valence Group acted as
Financial Advisor to Golden Gate


is acquiring

from

The Valence Group issued a
Fairness Opinion to the Board of Directors
of Quaker Chemical


NEW MOUNTAIN CAPITAL LLC
has partnered with

The Valence Group acted as
Financial Advisor to New Mountain Capital


has been sold to

The Valence Group acted as
Financial Advisor to Niacet

 
have sold

to




The Valence Group acted as
Financial Advisor to Safripol


has acquired the Silica business of

The Valence Group acted as
Financial Advisor to Evonik


has been sold to

The Valence Group acted as
Financial Advisor to Canexus


has sold

to

The Valence Group acted as
Financial Advisor to Dow


has acquired the Performance Materials
business of

The Valence Group acted as
Financial Advisor to Evonik


has sold its Expandable Polystyrene
business to

The Valence Group acted as
Financial Advisor to INEOS



eurazeo
has acquired



novacap
a portfolio company of

ARDIAN

The Valence Group acted as
Financial Advisor to Eurazeo

Arsenal | Capital Partners

has acquired



Pacific Urethanes

The Valence Group acted as
Financial Advisor to Arsenal



SPECIALTY COATING SYSTEMS™

a portfolio company of



BERWIND

has been sold to



KISCO

The Valence Group acted as
Financial Advisor to Berwind

Arsenal | Capital Partners

has sold



ROYAL
ADHESIVES & SEALANTS

to




AMERICAN SECURITIES

The Valence Group acted as
Financial Advisor to Arsenal



nubiola

has been sold to



FERRO

The Valence Group acted as
Financial Advisor to Nubiola

INEOS SOLVAY

has sold certain Chlorvinyls
businesses as a remedy to secure
European Commission approval of
INOVYN, their planned PVC JV, to

INTERNATIONAL CHEMICAL INVESTORS
GROUP

The Valence Group acted as
Financial Advisor to INEOS/Solvay



DSM

has sold, via a JV with a critical offtake
contract, a collection of businesses to

CVC
Capital Partners

The Valence Group acted as
Financial Advisor to DSM



DOW

has sold its Sodium Borohydride business to



Vertellus

a portfolio company of



WIND POINT PARTNERS

The Valence Group acted as
Financial Advisor to Dow



cbpe
capital

has sold



Warwick
Chemicals

to



Lubrizol

The Valence Group acted as
Financial Advisor to CBPE Capital

Arsenal | Capital Partners

a portfolio company of



ACCELLA

has sold its Plastics business to




PolyOne

The Valence Group acted as
Financial Advisor to Arsenal



HSC CORPORATION
(Zhangjiagang, China)

has been sold to



CYG 长园

ChangYuan Group
(Shenzen, China)

The Valence Group acted as
Financial Advisor to HSC



Permira

has acquired



CABB

from



Bridgepoint

The Valence Group acted as
Financial Advisor to Permira




TESSENDERLO
GROUP

has sold its Compounds business to




MITSUBISHI CHEMICAL

The Valence Group acted as
Financial Advisor to Tessenderlo



Solutia

has been sold to



EASTMAN

The Valence Group acted as
Independent Advisor to the
Board of Directors of Solutia

ARKEMA

has sold its Tinstabilizer business to



PMC

The Valence Group acted as
Financial Advisor to Arkema

Arsenal | Capital Partners

and



EOSUNG

have sold



NOVOLYTE
technologies

to



BASF

The Valence Group acted as
Financial Advisor to Arsenal