

Valuation & Financial Advisory | Investment Banking

# Industry Update Chemicals Q1 2024

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## **Financial Performance** Size Profile, LTM Financials, Forward Estimates

(USD in millions, except per share data)

			Size Profile				Forward Estimates	
Ticker	Price at 03/31/24	% of 52 Week High	TEV	Total Assets	LTM Revenue	LTM EBITDA	2024 Est. Revenue	2024 Est. EBITDA
SHW	\$347.33	99.7%	\$89,681	\$23,428	\$22,977	\$4,262	\$23,646	\$4,531
ECL	\$230.90	99.6%	\$70,965	\$21,847	\$15,320	\$3,107	\$16,048	\$3,503
DD	\$76.67	97.4%	\$37,321	\$38,552	\$12,068	\$2,855	\$12,136	\$2,893
PPG	\$144.90	94.8%	\$36,640	\$21,867	\$18,177	\$2,809	\$18,528	\$3,169
CE	\$171.86	99.8%	\$30,094	\$26,597	\$10,940	\$1,831	\$11,146	\$2,717
	SHW ECL DD PPG	Ticker      03/31/24        SHW      \$347.33        ECL      \$230.90        DD      \$76.67        PPG      \$144.90	Price at 03/31/24      % of 52 Week High        SHW      \$347.33      99.7%        ECL      \$230.90      99.6%        DD      \$76.67      97.4%        PPG      \$144.90      94.8%	Price at 03/31/24      % of 52 Week High      TEV        SHW      \$347.33      99.7%      \$89,681        ECL      \$230.90      99.6%      \$70,965        DD      \$76.67      97.4%      \$33,321        PPG      \$144.90      94.8%      \$36,640	Price at 03/31/24      % of 52 Week High      TEV      Total Assets        SHW      \$347.33      99.7%      \$89,681      \$23,428        ECL      \$230.90      99.6%      \$70,965      \$21,847        DD      \$76.67      97.4%      \$37,321      \$38,552        PPG      \$144.90      94.8%      \$36,640      \$21,867	Price at 03/31/24      % of 52 Week High      TEV      Total Assets      LTM Revenue        SHW      \$347.33      99.7%      \$89,681      \$23,428      \$22,977        ECL      \$230.90      99.6%      \$70,965      \$21,847      \$15,320        DD      \$76.67      97.4%      \$37,321      \$38,552      \$12,068        PPG      \$144.90      94.8%      \$36,640      \$21,867      \$18,177	Price at 03/31/24      % of 52 Week High      TEV      Total Assets      LTM Revenue      LTM EBITDA        SHW      \$347.33      99.7%      \$89,681      \$23,428      \$22,977      \$4,262        ECL      \$230.90      99.6%      \$70,965      \$21,847      \$15,320      \$3,107        DD      \$76.67      97.4%      \$37,321      \$38,552      \$12,068      \$2,855        PPG      \$144.90      94.8%      \$36,640      \$21,867      \$18,177      \$2,809	Price at 03/31/24      % of 52 Week High      TEV      Total Assets      LTM Revenue      LTM EBITDA      2024 Est. Revenue        SHW      \$347.33      99.7%      \$89,681      \$23,428      \$22,977      \$4,262      \$23,646        ECL      \$230.90      99.6%      \$70,965      \$21,847      \$15,320      \$3,107      \$16,048        DD      \$76.67      97.4%      \$37,321      \$38,552      \$12,068      \$2,855      \$12,136        PPG      \$144.90      94.8%      \$36,640      \$21,867      \$18,177      \$2,809      \$18,528

Commodity Chemicals									
Dow Inc.	DOW	\$57.93	98.6%	\$52,754	\$57,967	\$44,622	\$5,176	\$45,466	\$6,279
LyondellBasell Industries N.V.	LYB	\$102.28	99.0%	\$42,702	\$37,000	\$41,107	\$4,909	\$40,394	\$5,231
Westlake Corporation	WLK	\$152.80	99.8%	\$22,124	\$21,035	\$12,548	\$2,192	\$12,337	\$2,495

Diversified Chemicals									
Eastman Chemical Company	EMN	\$100.22	99.6%	\$15,934	\$14,633	\$9,210	\$1,544	\$9,416	\$1,808
The Chemours Company	CC	\$26.26	67.2%	\$7,130	\$8,251	\$6,027	\$980	\$5,854	\$928
Huntsman Corporation	HUN	\$26.03	87.1%	\$5,905	\$7,248	\$6,111	\$373	\$6,231	\$496

Source: Capital IQ

#### (USD in millions, except per share data)

		Size Profile			LTM Operating Data		Forward Estimates					
Company Name	– Ticker	Price at	% of 52	TEV	TEV	TEV	% of 52 TEV	Total	LTM	LTM	2024 Est.	2024 Est.
Company Hame	Ticker	03/31/24	Week High	111	Assets	Revenue	EBITDA	Revenue	EBITDA			
Industrial Gases												
Linde plc	LIN	\$464.32	97.2%	\$231,000	\$80,811	\$32,854	\$12,095	\$34,320	\$12,866			
Air Products and Chemicals, Inc.	APD	\$242.27	78.7%	\$63,985	\$34,118	\$12,423	\$4,051	\$12,860	\$5,273			

Fertilizers & Agricultural Chemica	ls								
Corteva, Inc.	CTVA	\$57.67	91.0%	\$38,753	\$42,996	\$17,226	\$3,217	\$17,585	\$3,584
Nutrien Ltd.	NTR	\$54.31	72.1%	\$37,053	\$52,749	\$28,082	\$5,334	\$27,121	\$5,599
FMC Corporation	FMC	\$63.70	50.9%	\$11,115	\$11,926	\$4,487	\$864	\$4,543	\$982

Source: Capital IQ

# Valuation Metrics

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## Return Profile, Trading Multiples

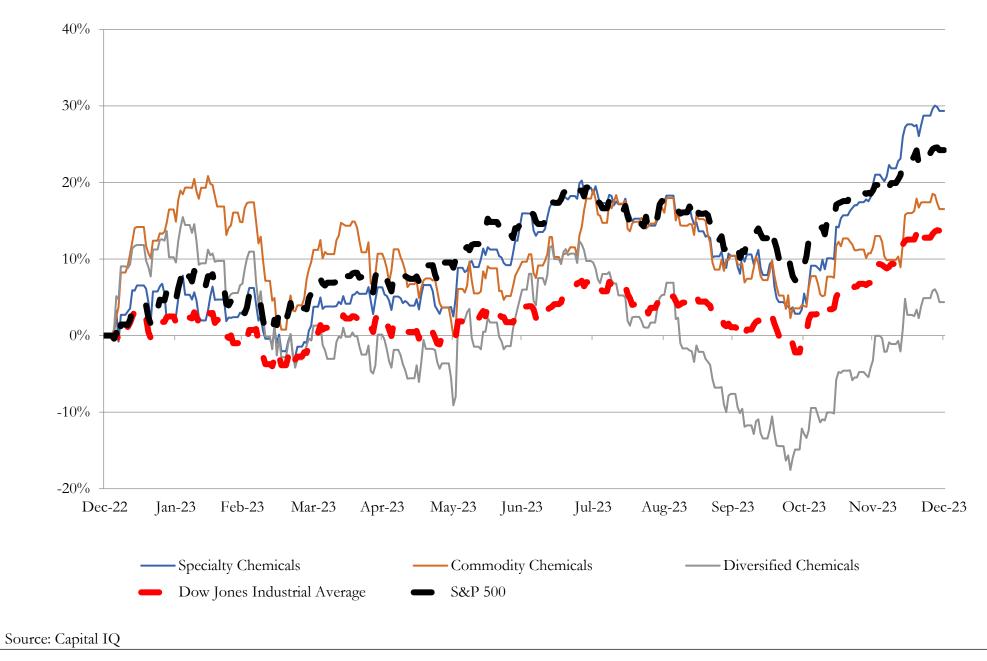
		Return Profile								
Company Name	Ticker	Return on Assets	Retu <del>r</del> n on Equity	Revenue Growth	EBITDA Margin	EBITDA Growth	5-yr Beta	TEV / LTM Revenue	TEV / LTM EBITDA	
Specialty Chemicals										
The Sherwin-Williams Company	SHW	9.8%	72.5%	1.7%	18.5%	13.9%	1.2x	3.9x	21.0x	
Ecolab Inc.	ECL	6.3%	18.2%	8.0%	20.3%	11.5%	1.1x	4.6x	22.8x	
DuPont de Nemours, Inc.	DD	2.7%	2.1%	-7.3%	23.7%	-10.4%	1.3x	2.0x	13.0x	
PPG Industries, Inc.	PPG	6.4%	18.8%	2.6%	15.5%	14.4%	1.3x	N/A	N/A	
Celanese Corporation	CE	2.7%	28.9%	13.1%	16.7%	-7.8%	1.3x	2.8x	16.4x	
	Mean Median	5.6% 6.3%	28.1% 18.8%	3.6% 2.6%	18.9% 18.5%	4.3% 11.5%	1.2x 1.3x	3.3x 3.3x	18.3x 18.7x	
Commodity Chemicals										
Dow Inc.	DOW	2.8%	3.3%	-21.6%	11.6%	-39.9%	1.3x	1.2x	10.2x	
LyondellBasell Industries N.V.	LYB	6.0%	16.4%	-18.5%	11.9%	-21.5%	1.2x	1.0x	8.7x	
Westlake Corporation	WLK	3.7%	4.9%	-20.6%	17.5%	-45.6%	1.3x	1.8x	10.1x	
	Mean Median	4.2% 3.7%	8.2% 4.9%	-20.2% -20.6%	13.7% 11.9%	-35.7% -39.9%	1.3x 1.3x	1.3x 1.2x	9.7x 10.1x	
Diversified Chemicals										
Eastman Chemical Company	EMN	4.6%	16.6%	-12.9%	16.8%	-12.5%	1.6x	1.7x	10.3x	
The Chemours Company	CC	5.3%	-25.7%	-11.3%	16.3%	-9.6%	2.0x	1.2x	7.3x	
Huntsman Corporation	HUN	0.8%	1.0%	-23.8%	6.1%	-64.9%	1.1x	1.0x	15.8x	
Source: Capital IQ	Mean Median	3.6% 4.6%	-2.7% 1.0%	-16.0% -12.9%	13.0% 16.3%	-29.0% -12.5%	1.6x 1.6x	1.3x 1.2x	11.1x 10.3x	

			Trading Multiples						
Company Name	Ticker	Return on Assets	Return on Equity	Revenue Growth	EBITDA Margin	EBITDA Growth	5-yr Beta	TEV / LTM Revenue	TEV / LTM EBITDA
Industrial Gases									
Linde plc	LIN	6.4%	15.4%	-1.5%	36.8%	11.4%	0.9x	7.0x	19.1x
Air Products and Chemicals, Inc.	APD	5.3%	15.5%	-3.5%	32.6%	4.3%	0.8x	5.2x	15.8x
	Mean	5.9%	15.4%	-2.5%	34.7%	7.8%	0.9x	6.1x	17.4x
	Median	5.9%	15.4%	-2.5%	34.7%	7.8%	0.9x	6.1x	17.4x
Fertilizers & Agricultural Chemicals									
Nutrien Ltd.	NTR	4.1%	5.0%	-24.1%	19.0%	-53.7%	0.0x	1.3x	6.9x
Corteva, Inc.	CTVA	2.9%	3.7%	-1.3%	18.7%	-2.9%	0.7x	2.2x	12.0x
FMC Corporation	FMC	3.7%	36.2%	-22.7%	19.2%	-38.6%	0.9x	2.5x	12.9x
	Mean	3.6%	10.1%	1.5%	-6.4%	11.1%	0.5x	2.0x	10.6x
Source: Capital IQ	Median	3.7%	5.3%	8.7%	7.9%	-1.5%	0.7x	2.2x	12.0x

# LTM Equity Performance

Major Indexes

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## **Recent M&A Activity** Last Twelve (12) Months as of March 31, 2024

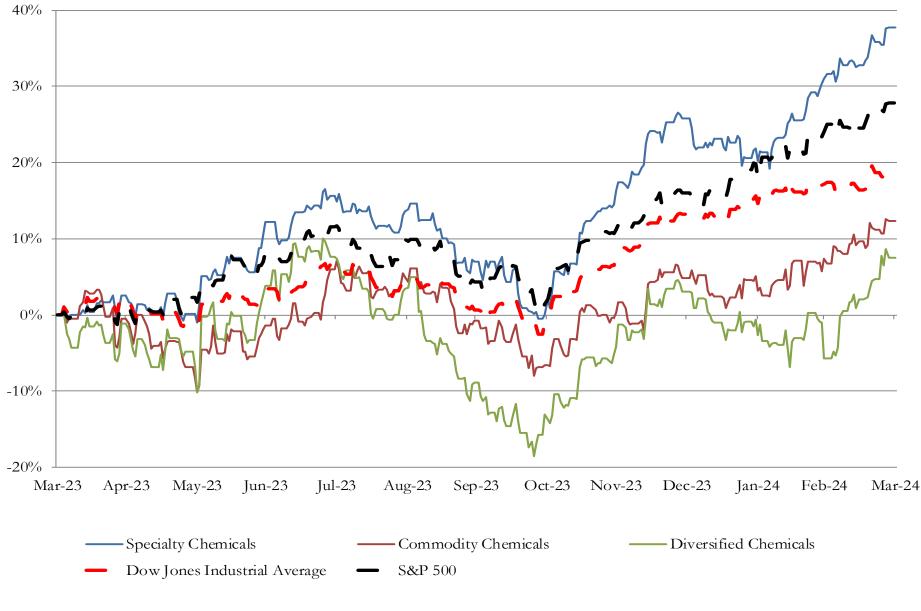
(USD in millions)

Close Date	Target	Acquirer	Implied TEV
Jul-23	Diversey Holdings, Ltd.	Solenis LLC	\$4,516
Mar-23	Global Products Business of Valvoline Inc.	Aramco Overseas Company B.V.	\$2,650
Mar-23	The Stoller Group, Inc.	Corteva, Inc.	\$1,452
Nov-23	Chase Corporation	KKR & Co. Inc.; North America XIII Fund	\$1,330
Feb-23	Textile Effects Business of Huntsman International LLC	Archroma Germany GmbH; Archroma Operations S.À R.L.	\$718
Oct-23	KMG Chemicals, Inc. (nka:FUJIFILM Electronic Materials Process	FUJIFILM Holdings America Corporation	\$700
Mar-23	AgroFresh Solutions, Inc.	Paine Schwartz Partners, LLC; PSP AGFS Holdings, L.P	\$573
Dec-23	Texas City Operations of Eastman Chemical Company	INEOS Acetyls Americas Limited	\$452
Feb-23	Laminates, Films and Coated Fabrics Businesses of Synthomer plc	SURTECO North America, Inc.	\$255
Dec-23	Verdant Specialty Solutions LLC	Samyang Specialty Solutions LLC	\$250
Mar-23	ICP Industrial, Inc.	Stahl Holdings B.V.	\$205
Jan-23	American Chrome & Chemicals Inc.	Yildirim Holding A.S.	\$170
Nov-23	Vycom Plastics, Inc.	Plaskolite, LLC	\$140
Apr-23	Iron Oxide Business of Venator Materials PLC	Cathay Industries	\$140
Aug-23	Glycolic Acid business of The Chemours Company	PureTech Scientific Inc.	\$138
May-23	Fortress North America, LLC	Compass Minerals International, Inc.	\$68
Feb-23	Enduro Composites, Inc.	Creative Composites Group	\$35
Jul-23	Natech Plastics, Inc.	Stratec SE	\$30
Nov-23	Star Thermoplastic Alloys & Rubbers, Inc.	HEXPOL AB (publ)	\$27
Feb-23	CMT Materials, Inc.	ESCO Technologies Inc.	\$18
Oct-23	Substantially all the assets of The Miami Products & Chemical Company	Hawkins, Inc.	\$16
Dec-23	Toppen Health Inc.	Aion Therapeutic Inc.	\$5
May-23	NanoShield windshield strengthener and related automotive assets of C-Bond	Apex Protect GPS, LLC	\$4
Jul-23	EcoTech Enterprises, Inc.	Hawkins, Inc.	\$3
May-23	Nankai Enviro-Tech Corp.	Tenma Corporation	\$2
Dec-23	MoldPro, Inc.	Plastifab Industries Inc.	NA
Dec-23	R&F Industries, Inc.	Candler Industries, Inc.	NA
Dec-23	Cilajet, LLC	VSS Group	NA
Dec-23	Newsom Seed, Inc.	SiteOne Landscape Supply, Inc.	NA
Dec-23	Certain Industrial and Logistics Assets from Odom Industries Inc.	Sipcam Agro USA, Inc.	NA

Source: Capital IQ

## Change in Market Capitalization by Sector

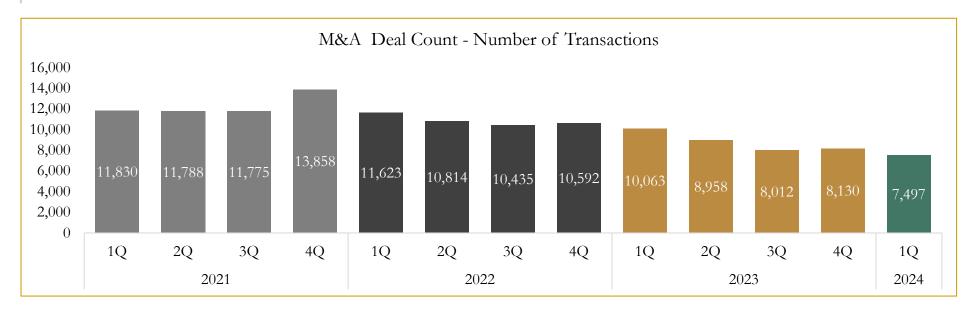
Last Three (3) Months as of March 31, 2024

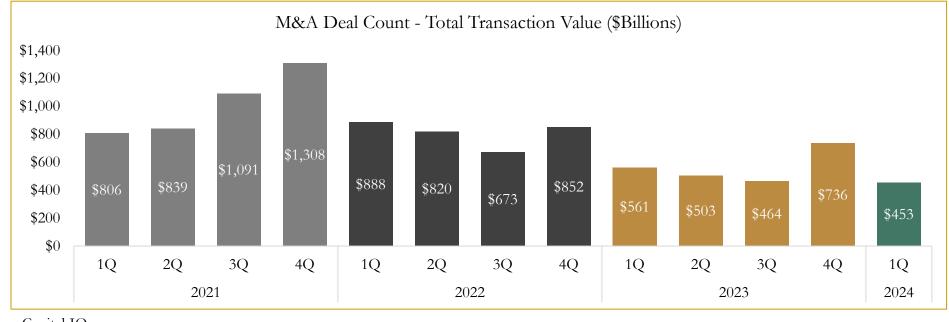


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## **M&A Deal Flow Statistics**

Last Three (3) Years as of March 31, 2024





Source: Capital IQ

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