# Saudi Petrochemicals Sector

Petrochemicals –Industrial Saudi Arabia

09 April 2017



# Monthly update

In our monthly note, we update price movements of major petrochemical products, manufacturing activity in key demand markets, recent announcements and valuations of Saudi petrochemical companies & peers.

### Price movement of key petrochemical products

Products	1-Month*	Y-o-Y
Ethylene	-15.5%	-9.5%
HDPE	-4.9%	-4.1%
LDPE	-7.3%	+4.1%
Propylene	-14.8%	+26.5%
Polypropylene	-7.3%	+2.9%
Methanol	-21.3%	+28.1%
Benzene	-16.6%	+30.9%
Ammonia	+4.6%	+3.0%
Urea	-14.0%	+10.3%
* Last month change		

Summary

Julillialy		
Stock	Rating	Price Target
SABIC	N	SAR97.0
Yansab	N	SAR58.0
SAFCO	UW	SAR62.0
APCC	N	SAR46.0
Tasnee	UR	<b>Under Review</b>
Sipchem	OW	SAR20.4

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# Saudi Petrochemicals sector

# Most products witness sharp m-o-m fall

Aramco set NGL prices lower for April. Aramco has lowered Propane price for April to US\$430/t (-10.4% m-o-m), its lowest level this year and in line with our expectations. After keeping Butane unchanged in March, Aramco has also lowered Butane price to US\$490/t, down by US\$110/t, its steepest decline since November 2014. Meanwhile, Naphtha price declined by more than 7% in March, broadly tracking Oil prices (-5% m-o-m). Given the recent decline in Naphtha price amid weak oil prices, Propane discount to Naphtha has reached ~10%, which is in line with its historical average. While Oil prices is likely to hinge upon OPEC and non-OPEC compliance and US crude inventory levels, we expect NGL prices to remain broadly unchanged to slightly up for May unless oil price increases further or demand remains strong.

Product prices fell in March: As expected, key petrochemical products' prices declined in March with Ethylene and Propylene prices slipping around 15% (mo-m) each, largely on weak demand and upstream costs. Snapping its upward journey, other polymer products such as HDPE (-4.9% m-o-m), LDPE (-7.3%), Polypropylene (-7.3%) and Polystyrene (-10.8%) were also down, mainly due to lower upstream costs coupled with weak downstream demand (source: polymerupdate). We expect prices to remain under pressure in the coming months as product demand generally remains low sequentially during the second quarter. Meanwhile, prices of C5+ products of Naphtha cracking, such as Benzene (-16.6% m-o-m) and Styrene (-16.2% m-o-m) declined significantly. Methanol prices (-21.3% m-o-m) fell to its lowest level since October 2016 on weak demand in China, following a shutdown of a few MTO plants due to poor margins (source: Platts). Urea (-14.0%) prices continued to decline for the second consecutive month in March.

**Spreads narrowed on lower product prices:** Product spreads have narrowed (m-o-m) in March as decline in product prices were only partially offset by lower costs across the board. We expect spreads to remain under pressure going forward, primarily due to weak seasonal demand in Q2.

Positive fundamentals are already priced in for most companies: We believe that most of our petchem companies under coverage are trading at around their fair price except Sipchem. Hence, we keep our ratings and target prices (see left pane) unchanged for all the petchem companies under our coverage. In our view, unless product prices and/or spreads increase further, we see limited upside potential for companies under our coverage (ex-Sipchem).

Oil prices slipped in March: Crude oil prices have dropped ~5% m-o-m in March, taking the Q1 decline to ~7%, due to concerns on US crude inventories reaching all-time highs because of weaker than expected demand globally and increased drilling activities in the US, which might challenge OPEC's production cut efforts (95% of production cut quota reached in March as per Reuters survey) to balance the oil market. In our view, there may be supply side risks in 2017 in the absence of an extension of the OPEC deal or if US production picks up. Meanwhile, US producers continued to add oil rigs for the tenth consecutive month in March (662 at the end of March vs. 602 at the end of February 2017; source: Baker Hughes). Nevertheless, demand continues to improve in March as global manufacturing activities continued to expand for the seventh consecutive month with the JPM Global Manufacturing PMI rising to 53 in March.



# **Trading opportunities**

We have analyzed historic stock price movements vs. weighted price spreads (between the end product prices and key feedstock, unadjusted for production). Our tracker model shows that the stock price movements and relevant weighted price spread are highly correlated in the past and we expect the trend to continue going forward. Based on our tracker model, we expect APCC is likely to move lower due to declining spread on higher Propane price in Q1.

Figure 1 APCC Price and Spread



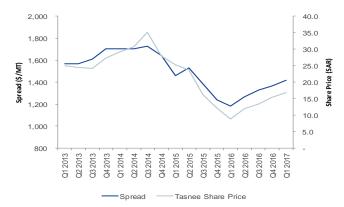
Source: Company data, Al Rajhi Capital, Bloomberg

Figure 3 SIPCHEM Price and Spread



Source: Company data, Al Rajhi Capital, Bloomberg

Figure 5 Tasnee Price and Spread



Source: Company data, Al Rajhi Capital, Bloomberg

Figure 2 YANSAB Price and Spread



Source: Company data, Al Rajhi Capital, Bloomberg

Figure 4 SAFCO Price and Spread



Source: Company data, Al Rajhi Capital, Bloomberg

Figure 6 SABIC Price and Spread



Source: Company data, Al Rajhi Capital, Bloomberg

Figure 7 Price movement of key petrochemicals, fertilizers and metals

Products	Recent Price*	% Change						
		1-Month**	QTD***	YTD	1-Year			
European Brent (US\$/bbl)	53.5	(5.0)	(7.0)	(5.9)	8.9			
WTI (US\$/bbl)	50.4	(7.0)	(9.7)	(10.0)	21.1			
Henry Hub Natural Gas (US\$/mmbtu)	3.1	23.3	(15.8)	(17.1)	62.9			
Naphtha - Japan (US\$/ton)	480	(7.4)	(5.5)	(3.3)	22.6			
Propane - Aramco (US\$/ton)	430	(5.9)	26.3	13.2	34.4			
Butane - Aramco (US\$/ton)	490	0.0	42.9	16.7	40.0			
Key petrochemicals (US\$/ton)								
Ethylene (FOB Japan)	1,090	(15.5)	(0.9)	(0.9)	(9.5)			
HDPE (SE Asia)	1,160	(4.9)	(0.9)	(0.9)	(4.1)			
LDPE (SE Asia)	1,270	(7.3)	(1.6)	(1.6)	4.1			
Propylene (FOB Korea)	835	(14.8)	(3.5)	(3.5)	26.5			
Polypropylene (SE Asia)	1,080	(7.3)	2.4	2.4	2.9			
Methanol (CFR China)	292	(21.3)	(16.6)	(16.6)	28.1			
MTBE (Asia)	575	(12.9)	(16.7)	(16.7)	(0.9)			
Benzene (FOB Korea)	805	(16.6)	(3.0)	(3.0)	30.9			
Toluene (CFR Japan)	640	(8.6)	(5.9)	(5.9)	3.2			
Styrene (FOB Korea)	1,165	(16.2)	(0.9)	(0.9)	5.4			
Polystyrene (Asia)	1,320	(10.8)	0.0	0.0	5.2			
Other petrochemicals (US\$/ton)								
Mono-ethylene glycol - SABIC	1,035	(12.3)	(1.4)	(1.4)	19.0			
Ethylene di-chloride (FOB NWE)	340	11.5	33.3	33.3	51.1			
Vinyl Acetate Monomer (China)	845	11.2 15.8		15.8	(4.0)			
Polyvinyl chloride (SE Asia)	940	(1.1)	4.4	4.4	17.5			
Titanium Dioxide (Asia)	2,460	0.0	5.1	5.1	23.0			
Acrylic Acid (China)	1,230	(11.5)	(3.1)	(3.1)	69.7			
Fertilizers (US\$/ton)								
Ammonia (Middle East)	340	4.6	65.9	65.9	3.0			
Urea (Middle East)	215	(14.0)	(12.2)	(12.2)	10.3			
DAP (Middle East)	385	6.9	18.5	18.5	4.1			
Metals								
Gold - US Spot (US\$/oz)	1,259	0.1	8.9	9.7	3.5			
Aluminum - LME (US\$/ton)	1,940	1.7	14.6	13.9	27.4			
Copper - LME (US\$/ton)	5,817	(1.5)	6.3	5.7	19.2			

Source: Bloomberg, Argaam, Al Rajhi Capital. \* Last closing. \*\* 1-Month represents the last month change. \*\*\* represents Q1 2017

Figure 8 Historical 1-Year Forward PE Multiples Trend



Source: Bloomberg, Al Rajhi Capital

Figure 9 Historical 1-Year Forward EV/EBITDA Multiples Trend



Source: Bloomberg, Al Rajhi Capital

Figure 10 Margins and Valuation Metrics - Saudi petrochemical companies vs. global peers

Company Name	Market Cap (US\$ 'mn)	TTM Operating margin	TTM Net margin	2017 PE	P/B	2017E EV/Sales	2017E EV/EBITDA	TTM ROE	TTM Operating ROE	TTM ROA
Saudi Arabia										
SABIC	78,868	21.3	13.4	15.8x	1.8x	2.3x	7.6x	11.0	17.4	5.5
SAFCO	7,444	35.4	36.8	20.6x	4.0x	8.7x	16.2x	14.4	13.9	12.1
Sipchem	1,691	12.4	2.1	13.2x	1.1x	3.1x	8.3x	1.2	7.1	0.4
NIC	3,113	11.5	1.4	16.9x	1.4x	2.2x	9.1x	2.6	21.9	0.5
Yansab	8,695	35.7	33.0	15.0x	2.0x	4.3x	9.1x	14.6	15.7	11.2
APC	2,387	33.4	34.2	12.9x	3.0x	3.8x	10.0x	26.4	25.8	17.7
SPC	1,823	19.6	22.5	17.6x	1.2x	3.8x	13.5x	7.3	6.4	4.7
Saudi Kayan	3,240	11.4	1.6	20.6x	0.9x	3.5x	9.7x	1.0	7.6	0.3
PetroRabigh	2,976	0.4	0.1	79.6x	1.3x	1.8x	20.2x	0.4	1.3	0.1
SIIG	2,328	16.3	8.2	10.1x	1.2x	3.3x	9.1x	6.8	13.5	1.9
Chemanol	226	(16.0)	(18.9)	14.3x	0.7x	2.0x	6.4x	(8.4)	(7.1)	(4.5)
Nama	132	NA	NA	NA	1.6x	NA	NA	NA	NA	(41.4)
Alujain	378	18.7	7.7	18.6x	1.2x	2.2x	NA	10.2	24.6	3.4
National Petrochemical	2,569	16.6	6.7	12.9x	1.6x	3.1x	9.2x	6.8	16.7	1.8
Median		16.6	7.7	15.8x	1.4x	3.1x	9.1x	6.8	13.9	1.9
Average		16.7	11.4	20.6x	1.6x	3.4x	10.7x	7.3	12.7	1.0
Middle East & Africa (ex-Saudi Arabia)										
Industries Qatar	18,228	21.2	73.3	16.6x	2.0x	12.5x	54.2x	10.0	2.9	9.5
Mesaieed Petrochem	5,114	NA	NA	NA	1.3x	NA	NA	7.3	(0.1)	7.2
Sidi Kerir	580	28.3	41.7	8.0x	3.3x	1.7x	5.1x	49.6	33.6	39.1
Al Qurain	1,226	12.4	19.5	NA	1.1x	NA	NA	9.3	5.9	5.5
Sasol	19,612	14.2	8.4	11.0x	1.3x	1.8x	5.9x	7.0	11.8	3.9
Median		17.7	30.6	11.0x	1.3x	1.8x	5.9x	9.3	5.9	7.2
Average		19.0	35.7	11.9x	1.8x	5.3x	21.7x	16.6	10.8	13.0
Europe										
BASF	91,361	11.2	7.0	17.3x	2.7x	1.6x	8.8x	12.9	20.5	5.5
Solvay	12,867	8.3	5.1	14.2x	1.2x	1.5x	6.9x	6.5	10.5	2.5
Lanxess	6,118	6.0	2.5	19.8x	2.3x	0.8x	6.2x	7.9	19.1	2.2
Arkema	7,476	9.5	5.7	14.6x	1.7x	1.0x	6.6x	10.5	17.7	4.8
Yara	10,532	9.2	6.7	14.6x	1.2x	1.0x	6.8x	8.6	11.8	5.3
Akzo Nobel	21,005	10.7	6.8	18.6x	3.0x	1.4x	9.8x	14.9	23.3	6.0
Clariant	6,245	7.3x	4.3x	15.3x	2.5x	1.3x	8.4x	10.4x	17.5	3.2x
Median		9.2	5.7	15.3x	2.3x	1.3x	6.9x	10.4	17.7	4.8
Average		8.9	5.5	16.4x	2.1x	1.2x	7.6x	10.2	17.2	4.2
North America										
Eastman	11,700	15.6	9.6	10.9x	2.6x	2.0x	8.2x	20.4	33.1	5.6
Dow	76,820	7.1	9.0	15.4x	2.9x	1.8x	8.7x	16.7	14.4	5.9
Westlake	8,467	11.5	7.9	16.5x	2.4x	1.6x	7.8x	11.7	17.1	4.8
Celanese Corp	12,927	16.6	16.7	12.7x	5.0x	2.8x	9.7x	36.2	36.0	10.6
Methanex	4,196	1.4	(0.6)	9.9x	2.6x	1.8x	6.3x	(8.0)	1.7	(0.3)
LyondellBasell Industries	36,349	17.3	13.1	9.0x	6.0x	1.4x	6.4x	60.8	80.3	16.6
Huntsman Corp	5,861	6.7	3.4	13.3x	4.5x	1.0x	7.9x	23.9	47.4	3.4
Median		11.5	9.0	12.7x	2.9x	1.8x	7.9x	20.4	33.1	5.6
Average		10.9	8.4	12.5x	3.7x	1.8x	7.9x	24.2	32.9	6.7

Source: Bloomberg, Al Rajhi Capital. Notes: 1) Market cap as of April 4, 2017. 2) All valuation ratios as on latest trading prices.

Figure 11 Performance of Saudi petrochemical companies vs. global peers

Saudi Arabia SABC SAR  SAR  96 66  96 10.11  58 86 00  98 22  99 00  74 3  75 00  75 25  75 25  75 26  75 26  75 27  81 25  81 2	Company	Currency	Last Price*				52-Week		Dividend		
Sample   S				1 Month**			1 Year				
SAFC   SAR	Saudi Arabia										
Spotem	SABIC	SAR	96.96	(0.1)	5.8	6.0	38.2	99.0	74.3	5.0	5.2%
Spotem	SAFCO	SAR	66.73	(1.1)	(6.8)	(9.3)	4.8	82.0	58.0	2.5	3.7%
NC SAR 17.41 0.6 0.4 0.3 0.3 0.0 0.8 9 NA NA NAYmaba SAR 57.87 50 8.8 10.0 0.20 50.8 37.0 3.0 5.25 APC SAR 4.65 1.0 1.0 1.9 3.1 43.4 4.8 6.3 3.1 2.7 5.8% SPC SAR 4.65 1.0 1.9 3.1 43.4 4.8 6.3 3.1 2.7 5.8% SPC SAR 15.49 0.77 4.9 3.0 5.0 8.88 15.9 8.3 0.5 3.2% SAR 15.49 1.0 1.0 1.9 3.1 43.4 4.8 6.3 3.1 2.7 5.8% SPC SAR 15.49 1.0 1.0 1.9 3.1 43.4 4.8 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5											
Yamsab         SAR         C7.87         5.0         8.8         10.0         62.0         58.8         37.0         5.0         5.2           APC         SAR         45.66         10.0         1.9         3.1         43.4         48.6         33.1         2.7         6.8%           SPC         SAR         15.49         (0.7)         4.9         5.0         80.8         15.9         8.3         0.5         3.2%           Sudi Kayan         SAR         15.49         (0.7)         4.9         5.0         8.0         20.7         4.0         8.7         NA	•										
APC SAR											
SPC											
Saudi Kayan         SAR SAR         8.14 (5.3) (10.3) (7.9) (7.9) (6.9) (9.5) (5.0 NA NA NA PetroRabigin)         SAR (12.70) (3.3) (3.3) (3.0											
PetroRabigh											
SIG	=										
Chemanol   SAR   6.95   7.69   (1.33)   (1.33)   20.9   8.4   4.9   NA   NA   NA   NA   NA   NA   NA   N	•										
Name   SAR   3.90   6.57   6.66.3   6.37   6.32   7.2   3.6   NA   NA   Alkjain   SAR   20.14   6.25   3.8   7.9   48.7   22.6   11.0   1.0   5.0%   1.00											
Algian   SAR   20.14   (2.5)   9.8   7.9   48.7   22.6   11.0   1.0   5.0%											
National Petrochemical   SAR   20.01   0.9   4.0   6.8   20.5   22.8   13.4   NA   NA   NA   NA   Mathematical Claser   CAR   108.60   4.5   C.9   (8.0)   3.8   122.0   94.5   4.0   3.7%   Mesailead Petrochem   CAR   14.82   (9.7)   (1.8)   (1.8)   (1.9)   (1.9)   21.0   14.4   0.6   4.0%   4.											
Middle East & Africa (ex-Saudi Arabia)         Industries Qatar         QAR         108.60         (4.5)         (2.9)         (6.0)         3.8         122.0         94.5         4.0         3.7%           Mesaleed Petrochem         QAR         11.82         (0.7)         (1.8)         (1.4)         (1.9)         21.0         14.4         0.6         4.0%           Sidi Kenir         EOP         19.85         5.2         14.6         6.3         75.7         22.2         10.7         0.4         20%           Al Qurain         KWd         345.00         4.6         47.8         6.2         88.8         37.00         188.0         10.0         2.9%           Sasol         Zar         40,500.00         6.1         (1.2)         10.0         (3.4)         48.972.0         34.655.0         1,390.0         3.4%           Europe         Europe         EUR         92.98         5.7         5.8         6.0         46.4         93.8         61.6         2.9         3.1%           Sohay         EUR         91.29         5.7         5.8         6.0         46.4         93.8         61.6         2.9         3.1%           Lamess         EUR         92.56	•										
Mesaieed Petrochem   QAR   108.60   (4.5)   (2.9)   (6.0)   3.8   122.0   94.5   4.0   3.7%   Mesaieed Petrochem   QAR   14.82   (0.77)   (1.8)   (1.4)   (19.3)   21.0   14.4   0.6   4.0%   4.0%   5.0%   4.0%   5.2   14.6   6.3   75.7   22.2   10.7   0.4   2.0%   4.0%   2.0%   4.0%   2.0%   4.0%   2.	National Petrochemical	SAR	20.01	0.9	(4.0)	(5.8)	20.5	22.8	13.4	NA	NA
Mesaieed Petrochem	Middle East & Africa (ex-Saudi Arabia)										
Sidi Kerir	Industries Qatar	QAR	108.60	(4.5)	(2.9)	(6.0)	3.8	122.0	94.5	4.0	3.7%
Sidi Kerir	Mesaieed Petrochem	QAR	14.82	(0.7)	(1.8)	(1.4)	(19.3)	21.0	14.4	0.6	4.0%
Al Qurain KWd 345.00 4.6 47.8 6.2 88.8 370.0 188.0 10.0 2.9% Sasol ZAr 40,500.00 6.1 12.2 10.0 3.4 48,972.0 34,655.0 1,390.0 3.4% Europe  BASF EUR 92.98 5.7 5.8 6.0 46.4 93.8 61.6 2.9 3.1% Solvay EUR 11.485 4.2 3.7 4.0 44.8 117.0 79.1 3.3 2.8% Larness EUR 62.22 (1.9) 0.3 (0.4) 49.6 68.8 37.3 0.6 10.0 Arkema EUR 92.56 1.1 (0.6) (0.5) 44.0 97.2 63.2 1.9 2.1% Yara NOK 335.50 3.9 (3.1) (1.6) 31.3 362.0 256.1 15.0 4.5% Akzo Nobel EUR 77.69 22.8 30.9 30.8 33.0 79.7 52.6 1.6 2.0% Clariant CHF 18.87 3.1 11.3 11.2 13.8 19.0 15.2 0.5 2.4% Down More America Europe USD 65.54 4.1 17.3 16.4 43.6 68.1 39.5 0.8 11.1% Westalke USD 65.54 4.1 17.3 16.4 43.6 68.1 39.5 0.8 11.1% Celanese Corp USD 89.74 0.8 13.8 13.7 39.7 93.1 60.6 14.4 16.6 Methanex USD 46.60 (7.5) 5.9 5.2 49.5 53.4 26.8 11.1 2.4% Charlessel Industries USD 46.60 (7.5) 5.9 5.2 49.5 53.4 26.8 11.1 2.4% Charlessel Industries USD 46.60 (7.5) 5.9 5.2 49.5 53.4 26.8 1.1 2.4% Charlessel Industries USD 24.32 9.2 28.8 27.7 88.1 25.2 12.4 0.5 11.5% Missi Chemicals UFY 549.00 (2.6) 5.3 51. 49.5 59.0 320.0 11.0 2.0% Charlessel Corp KRW 368.500.0 1.6 0.4 0.1) 9.1 410,000 249,000 40,000 11.1% Formosa Chemicals Fibre Corp KRW 368.500.0 1.6 0.4 0.1) 9.1 410,000 249,000 40,000 11.7% Formosa Chemicals Fibre Corp KRW 368.500.0 1.6 0.4 0.1) 9.1 410,000 249,000 40,000 11.7% Formosa Plastics Corp KRW 293,000.0 3.9 12.6 12.3 8.8 341,000 215,000 25,000 1.7% Formosa Chemicals Fibre Corp KRW 293,000.0 1.6 0.4 0.1) 9.1 410,000 249,000 40,000 11.7% Formosa Plastics Corp KRW 293,000.0 3.9 12.6 12.3 8.8 341,000 215,500.0 5,000.0 1.7% Formosa Plastics Corp KRW 293,000.0 3.9 12.6 12.3 8.8 341,000 215,500.0 5,000.0 1.7% Formosa Plastics Corp KRW 293,000.0 3.9 12.6 12.3 8.8 341,000 215,500.0 5,000.0 1.7% Formosa Plastics Corp KRW 293,000.0 3.9 12.6 12.3 8.8 341,000 215,500.0 5,000.0 1.7% Formosa Plastics Corp KRW 293,000.0 3.9 12.6 12.3 8.8 341,000 215,500.0 5,000.0 1.7% Formosa Plastics Corp KRW 293,000.0 3.9 12.6 12.3 8.8 341,000 215,500.0 5,000.0 1.7% Formosa Plastics Corp KRW 293,000.0 3.9 12.6	Sidi Kerir	EGP	19.85					22.2	10.7	0.4	2.0%
Sasol	Al Qurain										
Europe											
BASF   EUR   92.98   5.7   5.8   6.0   46.4   93.8   61.6   2.9   3.1%   Solvay   EUR   114.85   4.2   3.7   4.0   34.8   117.0   79.1   3.3   2.2%   Larwess   EUR   62.22   (1.9)   0.3   (0.4)   49.6   68.8   37.3   0.6   10%   Arkema   EUR   92.55   1.1   (0.6)   (0.5)   44.0   97.2   63.2   1.9   2.1%	Cuss.	_ "	.0,000.00	0	()		(0.1)	.0,0.2.0	0.,000.0	.,000.0	0.170
Solvay         EUR         114.85         4.2         3.7         4.0         34.8         117.0         79.1         3.3         2.8%           Lanxess         EUR         62.22         (1,9)         0.3         (0.4)         49.6         68.8         37.3         0.6         1.0%           Arkema         EUR         92.56         1.1         (0.6)         (0.5)         44.0         97.2         63.2         1.9         2.1%           Yara         NOK         335.50         3.9         (3.1)         (1.6)         13.1         362.0         256.1         15.0         45%           Akzo Nobel         EUR         77.69         22.8         30.9         30.8         33.0         79.7         52.6         1.6         2.0%           Clariant         CHF         18.87         3.1         11.3         11.2         13.8         19.0         15.2         0.5         2.4%           North America         20	Europe										
Lanxess         EUR         62.22 (1.9)         0.3 (0.4)         49.6 (8.8)         37.3 (0.6)         1.0%           Arkema         EUR         92.56 (1.1)         (0.6) (0.5)         44.0 (97.2 (6.32)         1.9 (2.1%)         2.1%           Yara         NOK         33.550 (3.9)         (3.1) (1.6) (1.31)         36.2 (2.61)         15.0 (4.5%)         4.5%           Akzo Nobel         EUR         77.69 (2.8)         22.8 (30.9) (30.8)         33.0 (79.7)         52.6 (1.6) (2.0%)         2.0%           Clariant         CHF         18.87 (3.1)         11.3 (11.2)         13.8 (19.0)         15.2 (0.5)         2.4%           North America           Eastman         USD         79.96 (1.4) (7.7)         6.6 (13.7)         82.1 (65.4) (47.5)         1.8 (2.9%)           Westlake         USD         63.06 (2.8) (11.4) (10.6) (28.1) (65.4) (47.5) (18.8) (29.4)         1.8 (2.9%)         2.4%           Celanese Corp         USD (65.54) (4.1) (17.3) (16.4) (4.36) (68.1) (39.5) (38.1) (39.5) (38.1) (11.6)         1.1%         1.6         2.4 (4.5) (18.4) (4.5) (4.6)         1.1%         1.6         2.4 (4.5) (4.6) (4.4) (4.6) (4.6) (4.6) (7.5) (5.9) (5.9) (5.9) (5.9) (5.9) (5.3) (5.4) (5.6) (5.4) (5.4) (5.6) (5.3) (5.9	BASF	EUR	92.98	5.7	5.8	6.0	46.4	93.8	61.6	2.9	3.1%
Arkema         EUR         92.56         1.1         (0.6)         (0.5)         44.0         97.2         63.2         1.9         2.1%           Yara         NOK         335.50         3.9         (3.1)         (1.6)         13.1         362.0         256.1         15.0         4.5%           Akzo Nobel         EUR         77.69         22.8         30.9         30.8         33.0         79.7         52.6         1.6         2.0%           Clariant         CHF         18.87         3.1         11.3         11.2         13.8         19.0         15.2         0.5         2.4%           North America         Eastman         USD         79.96         1.4         7.7         6.6         13.7         82.1         62.7         1.9         2.4%           Dow         USD         63.06         2.8         11.4         10.6         28.1         65.4         47.5         1.8         2.9%           Westlake         USD         65.54         4.1         17.3         16.4         43.6         68.1         39.5         0.8         11.9           Celanse Corp         USD         89.74         0.8         13.8         13.7         39.	Solvay	EUR	114.85	4.2	3.7	4.0	34.8	117.0	79.1	3.3	2.8%
Yara         NOK         335.50         3.9         (3.1)         (1.6)         13.1         362.0         256.1         15.0         4.5%           Akzo Nobel         EUR         77.69         22.8         30.9         30.8         33.0         79.7         52.6         1.6         2.0%           Clariant         CHF         18.87         3.1         11.3         11.2         13.8         19.0         15.2         0.5         2.4%           North America         Eastman         USD         79.96         1.4         7.7         6.6         13.7         82.1         62.7         1.9         2.4%           Dow         USD         63.06         2.8         11.4         10.6         28.1         65.4         47.5         1.8         2.9%           Westlake         USD         65.54         4.1         17.3         16.4         43.6         68.1         39.5         0.8         11.1%           Celanese Corp         USD         89.74         4.8         13.8         13.7         39.7         93.1         60.6         1.4         1.6%           Methanex         USD         90.26         0.9         7.0         5.9	Lanxess	EUR	62.22	(1.9)	0.3	(0.4)	49.6	68.8	37.3	0.6	1.0%
Yara         NOK         335.50         3.9         (3.1)         (1.6)         13.1         362.0         256.1         15.0         4.5%           Akzo Nobel         EUR         77.69         22.8         30.9         30.8         33.0         79.7         52.6         1.6         2.0%           Clariant         CHF         18.87         3.1         11.3         11.2         13.8         19.0         15.2         0.5         2.4%           North America         Seatman         USD         79.96         1.4         7.7         6.6         13.7         82.1         62.7         1.9         2.4%           Dow         USD         63.06         2.8         11.4         10.6         28.1         65.4         47.5         1.8         2.9%           Westlake         USD         65.54         4.1         17.3         16.4         43.6         68.1         39.5         0.8         11.1%           Celanese Corp         USD         89.74         0.8         13.8         13.7         39.7         93.1         60.6         1.4         1.6%           Methanex         USD         90.26         0.9         7.0         5.9	Arkema	EUR	92.56	1.1	(0.6)	(0.5)	44.0	97.2	63.2	1.9	2.1%
Akzo Nobel         EUR         77.69         22.8         30.9         30.8         33.0         79.7         52.6         1.6         2.0%           Clariant         CHF         18.87         3.1         11.3         11.2         13.8         19.0         15.2         0.5         2.4%           North America         Eastman         USD         79.96         1.4         7.7         6.6         13.7         82.1         62.7         1.9         2.4%           Dow         USD         63.06         2.8         11.4         10.6         28.1         65.4         47.5         1.8         2.9%           Westlake         USD         65.54         4.1         17.3         16.4         43.6         68.1         39.5         0.8         1.1%           Celanese Corp         USD         46.60         (7.5)         5.9         5.2         49.5         53.4         26.8         1.1         2.4%           Methanex         USD         90.26         0.9         7.0         5.9         9.8         97.6         69.8         3.4         3.8%           Hurtsman Corp         USD         24.32         9.2         28.8         27.7	Yara	NOK	335.50	3.9	(3.1)	(1.6)	13.1	362.0	256.1	15.0	4.5%
North America         Eastman         USD         79.96         1.4         7.7         6.6         13.7         82.1         62.7         1.9         2.4%           Dow         USD         63.06         2.8         11.4         10.6         28.1         66.4         47.5         1.8         2.9%           Westlake         USD         65.54         4.1         17.3         16.4         43.6         68.1         39.5         0.8         11.4           Celanese Corp         USD         89.74         0.8         13.8         13.7         39.7         93.1         60.6         1.4         1.6%           Methanex         USD         46.60         (7.5)         5.9         5.2         49.5         53.4         26.8         1.1         2.4%           LyondellBasell Industries         USD         90.26         0.9         7.0         5.9         9.8         97.6         69.8         3.4         3.8%           Huntsman Corp         USD         24.32         9.2         28.8         27.7         88.1         25.2         12.4         0.5         2.1%           Asia         Time State	Akzo Nobel	EUR	77.69	22.8			33.0	79.7	52.6	1.6	2.0%
North America   USD   79.96   1.4   7.7   6.6   13.7   82.1   62.7   1.9   2.4%	Clariant	CHF	18.87	3.1	11.3	11.2	13.8	19.0	15.2	0.5	2.4%
Eastman											
Dow         USD         63.06         2.8         11.4         10.6         28.1         65.4         47.5         1.8         2.9%           Westlake         USD         65.54         4.1         17.3         16.4         43.6         68.1         39.5         0.8         1.1%           Celanese Corp         USD         89.74         0.8         13.8         13.7         39.7         93.1         60.6         1.4         1.6%           Methanex         USD         46.60         (7.5)         5.9         52         49.5         53.4         26.8         1.1         2.4%           LyondellBasell Industries         USD         90.26         0.9         7.0         5.9         9.8         97.6         69.8         3.4         3.8%           Huntsman Corp         USD         24.32         9.2         28.8         27.7         88.1         25.2         12.4         0.5         2.1%           Asia           Indorama Ventures         THB         35.50         (0.7)         6.8         7.6         58.4         37.8         22.1         0.5         1.5%           Mitsui Chemicals         JPY         549.00         (2.6)	North America										
Westlake         USD         65.54         4.1         17.3         16.4         43.6         68.1         39.5         0.8         1.1%           Celanese Corp         USD         89.74         0.8         13.8         13.7         39.7         93.1         60.6         1.4         1.6%           Methanex         USD         46.60         (7.5)         5.9         5.2         49.5         53.4         26.8         1.1         2.4%           LyondellBasell Industries         USD         90.26         0.9         7.0         5.9         9.8         97.6         69.8         3.4         3.8%           Huntsman Corp         USD         24.32         9.2         28.8         27.7         88.1         25.2         12.4         0.5         2.1%           Asia           Indorama Ventures         THB         35.50         (0.7)         6.8         7.6         58.4         37.8         22.1         0.5         1.5%           Mitsui Chemicals         JPY         549.00         (2.6)         5.3         5.1         49.5         599.0         320.0         11.0         2.0%           Sumitomo         JPY         618.00         0.5	Eastman	USD	79.96	1.4	7.7	6.6	13.7	82.1	62.7	1.9	2.4%
Celanese Corp         USD         89.74         0.8         13.8         13.7         39.7         93.1         60.6         1.4         1.6%           Methanex         USD         46.60         (7.5)         5.9         5.2         49.5         53.4         26.8         1.1         2.4%           LyondellBasell Industries         USD         90.26         0.9         7.0         5.9         9.8         97.6         69.8         3.4         3.8%           Huntsman Corp         USD         24.32         9.2         28.8         27.7         88.1         25.2         12.4         0.5         2.1%           Asia         Indorama Ventures         THB         35.50         (0.7)         6.8         7.6         58.4         37.8         22.1         0.5         1.5%           Mitsui Chemicals         JPY         549.00         (2.6)         5.3         5.1         49.5         599.0         320.0         11.0         2.0%           Sumitomo         JPY         618.00         0.5         13.8         13.0         24.7         682.0         396.0         14.0         2.3%           Formosa Chemicals & Fibre Corp         TWD         94.40         (2.9) </td <td>Dow</td> <td>USD</td> <td>63.06</td> <td>2.8</td> <td>11.4</td> <td>10.6</td> <td>28.1</td> <td>65.4</td> <td>47.5</td> <td>1.8</td> <td>2.9%</td>	Dow	USD	63.06	2.8	11.4	10.6	28.1	65.4	47.5	1.8	2.9%
Methanex         USD         46.60         (7.5)         5.9         5.2         49.5         53.4         26.8         1.1         2.4%           LyondellBasell Industries         USD         90.26         0.9         7.0         5.9         9.8         97.6         69.8         3.4         3.8%           Huntsman Corp         USD         24.32         9.2         28.8         27.7         88.1         25.2         12.4         0.5         2.1%           Asia         Indorama Ventures         THB         35.50         (0.7)         6.8         7.6         58.4         37.8         22.1         0.5         1.5%           Mitsui Chemicals         JPY         549.00         (2.6)         5.3         5.1         49.5         599.0         320.0         11.0         2.0%           Sumitomo         JPY         618.00         0.5         13.8         13.0         24.7         682.0         396.0         14.0         2.3%           Formosa Chemicals & Fibre Corp         TWD         94.40         (2.9)         (0.3)         (0.3)         22.9         100.0         77.5         3.5         3.7%           Lotte Chemical Corp         KRW         368,500.00	Westlake	USD	65.54	4.1	17.3	16.4	43.6	68.1	39.5	8.0	1.1%
LyondellBasell Industries         USD         90.26         0.9         7.0         5.9         9.8         97.6         69.8         3.4         3.8%           Huntsman Corp         USD         24.32         9.2         28.8         27.7         88.1         25.2         12.4         0.5         2.1%           Asia         Indorama Ventures         THB         35.50         (0.7)         6.8         7.6         58.4         37.8         22.1         0.5         1.5%           Mitsui Chemicals         JPY         549.00         (2.6)         5.3         5.1         49.5         599.0         320.0         11.0         2.0%           Sumitomo         JPY         618.00         0.5         13.8         13.0         24.7         682.0         396.0         14.0         2.3%           Formosa Chemicals & Fibre Corp         TWD         94.40         (2.9)         (0.3)         (0.3)         22.9         100.0         77.5         3.5         3.7%           Lotte Chemical Corp         KRW         368,500.00         1.6         0.4         (0.1)         9.1         410,000.0         249,000.0         4,000.0         1.1%           Formosa Plastics Corp         <	Celanese Corp	USD	89.74	8.0	13.8	13.7	39.7	93.1	60.6	1.4	1.6%
Asia         Indorama Ventures         THB         35.50         (0.7)         6.8         7.6         58.4         37.8         22.1         0.5         1.5%           Mitsui Chemicals         JPY         549.00         (2.6)         5.3         5.1         49.5         599.0         320.0         11.0         2.0%           Sumitomo         JPY         618.00         0.5         13.8         13.0         24.7         682.0         396.0         14.0         2.3%           Formosa Chemicals & Fibre Corp         TWD         94.40         (2.9)         (0.3)         (0.3)         22.9         100.0         77.5         3.5         3.7%           Lotte Chemical Corp         KRW         368,500.00         1.6         0.4         (0.1)         9.1         410,000.0         249,000.0         4,000.0         1.1%           Formosa Plastics Corp         TWD         90.50         (2.3)         3.5         3.5         18.7         98.1         75.0         3.6         4.0%           LG Chem         KRW         293,000.00         3.9         12.6         12.3         (8.8)         341,000.0         215,500.0         5,000.0         1.7%    Indices	Methanex	USD	46.60	(7.5)	5.9	5.2	49.5	53.4	26.8	1.1	2.4%
Asia Indorama Ventures THB 35.50 (0.7) 6.8 7.6 58.4 37.8 22.1 0.5 1.5% Mitsui Chemicals JPY 549.00 (2.6) 5.3 5.1 49.5 599.0 320.0 11.0 2.0% Sumitomo JPY 618.00 0.5 13.8 13.0 24.7 682.0 396.0 14.0 2.3% Formosa Chemicals & Fibre Corp TWD 94.40 (2.9) (0.3) (0.3) 22.9 100.0 77.5 3.5 3.7% Lotte Chemical Corp KRW 368,500.00 1.6 0.4 (0.1) 9.1 410,000.0 249,000.0 4,000.0 1.1% Formosa Plastics Corp TWD 90.50 (2.3) 3.5 3.5 18.7 98.1 75.0 3.6 4.0% LG Chem KRW 293,000.00 3.9 12.6 12.3 (8.8) 341,000.0 215,500.0 5,000.0 1.7%	LyondellBasell Industries	USD	90.26	0.9	7.0	5.9	9.8	97.6	69.8	3.4	3.8%
Indorama Ventures         THB         35.50         (0.7)         6.8         7.6         58.4         37.8         22.1         0.5         1.5%           Mitsui Chemicals         JPY         549.00         (2.6)         5.3         5.1         49.5         599.0         320.0         11.0         2.0%           Sumitomo         JPY         618.00         0.5         13.8         13.0         24.7         682.0         396.0         14.0         2.3%           Formosa Chemicals & Fibre Corp         TWD         94.40         (2.9)         (0.3)         (0.3)         22.9         100.0         77.5         3.5         3.7%           Lotte Chemical Corp         KRW         368,500.00         1.6         0.4         (0.1)         9.1         410,000.0         249,000.0         4,000.0         1.1%           Formosa Plastics Corp         TWD         90.50         (2.3)         3.5         3.5         18.7         98.1         75.0         3.6         4.0%           LG Chem         KRW         293,000.00         3.9         12.6         12.3         (8.8)         341,000.0         215,500.0         5,000.0         1.7%           Indices	Huntsman Corp	USD	24.32	9.2	28.8	27.7	88.1	25.2	12.4	0.5	2.1%
Indorama Ventures         THB         35.50         (0.7)         6.8         7.6         58.4         37.8         22.1         0.5         1.5%           Mitsui Chemicals         JPY         549.00         (2.6)         5.3         5.1         49.5         599.0         320.0         11.0         2.0%           Sumitomo         JPY         618.00         0.5         13.8         13.0         24.7         682.0         396.0         14.0         2.3%           Formosa Chemicals & Fibre Corp         TWD         94.40         (2.9)         (0.3)         (0.3)         22.9         100.0         77.5         3.5         3.7%           Lotte Chemical Corp         KRW         368,500.00         1.6         0.4         (0.1)         9.1         410,000.0         249,000.0         4,000.0         1.1%           Formosa Plastics Corp         TWD         90.50         (2.3)         3.5         3.5         18.7         98.1         75.0         3.6         4.0%           LG Chem         KRW         293,000.00         3.9         12.6         12.3         (8.8)         341,000.0         215,500.0         5,000.0         1.7%           Indices	Acie										
Mitsui Chemicals         JPY         549.00         (2.6)         5.3         5.1         49.5         599.0         320.0         11.0         2.0%           Sumitomo         JPY         618.00         0.5         13.8         13.0         24.7         682.0         396.0         14.0         2.3%           Formosa Chemicals & Fibre Corp         TWD         94.40         (2.9)         (0.3)         (0.3)         22.9         100.0         77.5         3.5         3.7%           Lotte Chemical Corp         KRW         368,500.00         1.6         0.4         (0.1)         9.1         410,000.0         249,000.0         4,000.0         1.1%           Formosa Plastics Corp         TWD         90.50         (2.3)         3.5         3.5         18.7         98.1         75.0         3.6         4.0%           LG Chem         KRW         293,000.00         3.9         12.6         12.3         (8.8)         341,000.0         215,500.0         5,000.0         1.7%           Indices           S&P500 Chemical Index         USD         544.66         1.0         7.2         6.7         15.1         552.2         456.6         12.1         2.2%		TUD	05.50	(0.7)	6.0	7.0	FC 4	27.0	20.4	0.5	4.50/
Sumitomo         JPY         618.00         0.5         13.8         13.0         24.7         682.0         396.0         14.0         2.3%           Formosa Chemicals & Fibre Corp         TWD         94.40         (2.9)         (0.3)         (0.3)         22.9         100.0         77.5         3.5         3.7%           Lotte Chemical Corp         KRW         368,500.00         1.6         0.4         (0.1)         9.1         410,000.0         249,000.0         4,000.0         1.1%           Formosa Plastics Corp         TWD         90.50         (2.3)         3.5         3.5         18.7         98.1         75.0         3.6         4.0%           LG Chem         KRW         293,000.00         3.9         12.6         12.3         (8.8)         341,000.0         215,500.0         5,000.0         1.7%           Indices           S&P500 Chemical Index         USD         544.66         1.0         7.2         6.7         15.1         552.2         456.6         12.1         2.2%											
Formosa Chemicals & Fibre Corp  TWD  94.40  (2.9)  (0.3)  (0.3)  22.9  100.0  77.5  3.5  3.7%  Lotte Chemical Corp  KRW  368,500.00  1.6  0.4  (0.1)  9.1  410,000.0  249,000.0  4,000.0  1.1%  Formosa Plastics Corp  TWD  90.50  (2.3)  3.5  3.5  18.7  98.1  75.0  3.6  4.0%  LG Chem  KRW  293,000.00  3.9  12.6  12.3  (8.8)  341,000.0  215,500.0  5,000.0  1.7%  Indices  S&P500 Chemical Index  USD  544.66  1.0  7.2  6.7  15.1  552.2  456.6  12.1  2.2%											
Lotte Chemical Corp         KRW         368,500.00         1.6         0.4         (0.1)         9.1         410,000.0         249,000.0         4,000.0         1.1%           Formosa Plastics Corp         TWD         90.50         (2.3)         3.5         3.5         18.7         98.1         75.0         3.6         4.0%           LG Chem         KRW         293,000.00         3.9         12.6         12.3         (8.8)         341,000.0         215,500.0         5,000.0         1.7%           Indices           S&P500 Chemical Index         USD         544.66         1.0         7.2         6.7         15.1         552.2         456.6         12.1         2.2%											
Formosa Plastics Corp TWD 90.50 (2.3) 3.5 3.5 18.7 98.1 75.0 3.6 4.0% LG Chem KRW 293,000.00 3.9 12.6 12.3 (8.8) 341,000.0 215,500.0 5,000.0 1.7%  Indices  S&P500 Chemical Index USD 544.66 1.0 7.2 6.7 15.1 552.2 456.6 12.1 2.2%	· ·										
LG Chem KRW 293,000.00 3.9 12.6 12.3 (8.8) 341,000.0 215,500.0 5,000.0 1.7%  Indices S&P500 Chemical Index USD 544.66 1.0 7.2 6.7 15.1 552.2 456.6 12.1 2.2%	•										
Indices           S&P500 Chemical Index         USD         544.66         1.0         7.2         6.7         15.1         552.2         456.6         12.1         2.2%	' '										
S&P500 Chemical Index USD 544.66 1.0 7.2 6.7 15.1 552.2 456.6 12.1 2.2%	LG Chem	KRW	293,000.00	3.9	12.6	12.3	(8.8)	341,000.0	215,500.0	5,000.0	1.7%
S&P500 Chemical Index USD 544.66 1.0 7.2 6.7 15.1 552.2 456.6 12.1 2.2%	Indices										
		USD	544.66	1.0	7.2	6.7	15.1	552.2	456.6	12.1	2.2%
1913OT YVOID CHEINICH HUEX USD 3U2.34 Z.U 7.5 7.4 17.1 3U5.1 Z45.8 6.8 2.3%	MSCI World Chemical Index	USD	302.54	2.0	7.5	7.4	17.1	305.1	245.8	6.8	2.3%
TASI SAR 6,967.98 0.4 (2.9) (3.4) 12.0 7,290.3 5,327.5 238.8 3.4%											

Source: Bloomberg, Al Rajhi Capital. \* Last closing as of April 4, 2017. \*\* 1 Month represents the last month change. \*\*\* represents Q1 2017



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"Underweight": Our target price is more than 10% below the current share price, and we expect the share price to reach the target on a 12 month time horizon.

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