### Errata Sheet for KH Neochem Report 2021

#### **Correction and Apology**

We found that there were several errors in *KH Neochem Report 2021* issued in July 2021. The errors were caused by our mistakes in the process of aggregating data, and we will take all necessary steps to prevent any similar errors in the future.

We apologize for any confusion this might have caused, and our corrections are shown on this errata sheet.

Correction Target 1	Page 17, Financial and Non-Financial Highlights, Disposed of as landfill (Graph)
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#### [Now reads:]

Units on the vertical axis in the graph (t): 0, 5, 10, 15, 20, 25

2015, 7.3t 2016, 16.8t 2017, 1.1t 2018, 7.3t 2019, 0.8t

2020, 0.8t



\*April 1 to March 31, each year

#### [Should read:]

Units on the vertical axis in the graph (t): 0, 50, 100, 150, 200, 250

2015, 27t

- 2016, 84t 2017, 140t
- 2018, 124t

2019, 136t

2020, 133t





Page 48, Responsible Care, Flow of Environmental Impact Results, INPUT, OUTPUT

[Now reads:]		
INPUT	INPUT	OUTPUT
Water: City water ····· 15,000t Ground water ····· 35,000t Industrial water ····· 7,108,000t OUTPUT Released into the atmosphere: NOx ····· 283.2t Dust ····· 3.0t Released into the water: Total amount released ····· 4,713,000t	Energy (crude oil equivalent)   Image: State of the state o	Product   429,536t     Released into the atmosphere   000     Image: Color of the state of the s
Waste material: Amount generated ·········53,713t	Scope Period	of aggregation: Yokkaichi Plant and Chiba Plant covered: April 1, 2020 to March 31, 2021

**Correction Target 3** [Now reads:] — Period covered: January 1, 2020 to December 31, 2021 [Should read:] \_\_\_\_\_ Period covered: January 1, 2020 to December 31, 2020 Page 50, Responsible Care, Reduction of Amount Released into the **Correction Target 4** [Now reads:] -2016, 5.7t Amounts released (SOx, dust) (t) 2017, 5.8t 8 2018, 6.6t 2019, 5.8t 2020, 3.0t 2017 2018 2016 [Should read:] -2016, 6.2t Amounts released (SOx, dust) (t) 2017, 7.4t 8 2018, 7.1t 2019, 6.6t 2020, 4.2t 2  $\cap$ 

2016

2017

Released into the water:

[Should read:]

INPUT Water:

OUTPUT

Waste material: Amount generated ..... 53,637t Amount as final landfill ......133t

Amount as final landfill ..... 0.8t

<u>OUTPUT</u> INPUT Product 429,536t City water ······15kt Energy (crude oil equivalent) Ground water ·······35kt ... 152,946kL Released into the atmosphere Fuel..... Purchased steam ......14,251kL CO2 ... . 404,086t dia Purchased electric power .... 26.975kL .... 0.5t SOx .. 283.8t NOx Dust .. .... 4.2t Water .. 15kt City water... Released into the water Released into the atmosphere: .. 35kt Ground water. Total amount released ....... 6,233kt \* .. 7,108kt Industrial water ... COD.. .. 28.7t T-N. . 10.4t Т-Р ... ... 1.8t Raw materials 511.007t Waste material Amount generated ...... 53,637t Amount as final landfill...... 133t | Scope of aggregation: Yokkaichi Plant and Chiba Plant | Period covered: April 1, 2020 to March 31, 2021

#### Page 48, Responsible Care, Environmental Accounting, Period covered

## Environment, Air pollutants, Amounts released (SOx, dust)







2016 2017 2018 2019 2020 (fiscal year)

Correction Target 6

Page 50, Responsible Care, Reduction of Amount Released into the Environment, Air pollutants, Levels agreed upon with local communities and annual maximum values

#### [Now reads:]

Yokkaichi Plant, NOx, Maximum value, 28.7 kg/h

Levels agreed upon with local communities and annual maximum values							
	SOx		N	NOx		Dust <sup>*1</sup>	
	Agreement	Maximum	Agreement	Maximum	Agreement	Maximum	
	level	value	level	value	level	value	
Yokkaichi	1.0	0.0	53.3	28.7	0.025	0.002	
Plant	Nm³/h	Nm³/h	kg/h	kg/h	g/Nm³	g/Nm³	
Chiba Plant	9.0	0.1	12.0	2.3	4.5	0.5	
	Nm³/h	Nm³/h	Nm³/h	Nm³/h	ka/h	ka/h	

\*1 Dust: At the Yokkaichi Plant, density controls are set per item of equipment. Here, the generator boiler figure is shown as a typical example.

#### [Should read:]

Yokkaichi Plant, NOx, Maximum value, 45.5 kg/h

Levels agreed upon with local communities and annual	maximum value
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	SOx		NOx		Dust <sup>*1</sup>	
	Agreement level	Maximum value	Agreement level	Maximum value	Agreement level	Maximum value
Yokkaichi Plant	1.0 Nm³/h	0.0 Nm³/h	53.3 kg/h	45.5 kg/h	0.025 g/Nm³	0.002 g/Nm³
Chiba Plant	9.0 Nm³/h	0.1 Nm³/h	12.0 Nm³/h	2.3 Nm³/h	4.5 kg/h	0.5 kg/h

\*1 Dust: At the Yokkaichi Plant, density controls are set per item of equipment. Here, the generator boiler figure is shown as a typical example.

	Page 50, Responsible Care, Reduction
Correction Target 7	Environment, Water pollu
_	(total effluent discharged)

Units on the vertical axis in th 0, 2,000, 4,000, 6,000	e graph (1,000t):
Numerical data:	Amount release
2016, 3,617,000t	6,000
2017, 4,395,000t	
2018, 4,673,000t	4,000
2019, 4,468,000t	
2020, 4,713,000t	2,000

#### [Should read:]

Units on the vertical axis in the graph (kt): 0, 2,000, 4,000, 6,000, 8,000

Numerical data:	Amount r
2016, 5,369kt	8,000
2017, 6,147kt	£ 000
2018, 6,425kt	0,000
2019, 6,220kt	4,000
2020, 6,233kt	2 000
	2,000



# Care, Reduction of Amount Released into the t, Water pollutants, Amount released nt discharged)





#### released (total effluent discharged)

#### **Correction Target 8**

[Now reads:]

Page 50, Responsible Care, Reduction of Amount Released into the Environment, Waste material, Amount of waste generated, amount released, and amount treated as final landfill



#### [Should read:]

Amount generated:		
2019, 52	2,610t	
2020, 53	3,637t	
Amount	released:	
2019, 8	3,962t	
2020, 8	3,489t	

Amoun	t treated as final land
2016,	84t
2017,	140t
2018,	124t
2019,	136t
2020,	133t





Correction Target 9	Page 50, Responsible Care, Red
	Environment, Waste n
	recycling rate

[Now reads:]		
Recycled amount (t):	Recycled amount and re	
2016, 3,452t		
2017, 3,557t	0	1,000
2018, 3,559t	2016	
2019, 3,901t		
2020, 4,080t	2017	
	2018	
Recycling rate (%):		
2016, 6.7%	2019	
2017, 6.5%	2020	
2018. 6.6%	(fiscal year)	
2019. 7.4%	0	3
2020, 7.6%		

[Should read:] ———			
Recycled amount (t):	Recycled amount and re		
2016, 3,386t			
2017, 3,418t	0	1,000	
2018, 3,482t	2016		
2019, 3,600t	2010		
2020, 3,837t	2017		
	2018		
Recycling rate (%):			
2016, 6.6%	2019		
2017, 6.2%	2020		
2018, 6.4%	(fiscal year)		
2019, 6.8%	0	3	
2020, 7.2%			



## luction of Amount Released into the material, Recycled amount and



Page 51, Responsible Care, Reduction of Amount Released into the Environment, Waste material, Waste material treatment flow

#### [Now reads:]

Amount of waste generated: 53,713t				
Amount reduced internally:		77.4%		
Amount of waste released: 8	3,564t,	15.9%		
Amount recycled externally:	515t,	1.0%		
Amount reduced externally: 8	3,048t,	15.0%		
Amount treated externally				
as final landfill:	0.8t,	0.0%		



#### [Should read:]

Amount of waste generated: 53,637t				
Amount reduced internally:		77.5%		
Amount of waste released: 8	,489t,	15.8%		
Amount recycled externally:	271t,	0.5%		
Amount reduced externally: 8	,085t,	15.1%		
Amount treated externally				
as final landfill:	133t,	0.2%		



\*Some totals may not tally due to rounding

Scope of aggregation: Yokkaichi Plant and Chiba Plant Period covered: April 1, 2020 to March 31, 2021