

# ESG Data Sheet FY2021

## [Aggregation Period]

April 1 – March 31 of each fiscal year, and March 31 of each fiscal year

# [Last Updated]

July 1st, 2022

#### **Environment**

[Scope of Data Aggregation]

"Nippon Shokubai" NIPPON SHOKUBAI CO., LTD.

"Nippon Shokubai (Production Sites)"

NIPPON SHOKUBAI CO., LTD. Himeji Plant / Kawasaki Plant
NIPPON SHOKUBAI CO., LTD. Himeji Plant / Kawasaki Plant
NIPPON CHEMICALS CO., LTD. / TOKYO FINE CHEMICAL CO., LTD. / CHUGOKU KAKO CO., LTD. /
NIPPON POLYMER INDUSTRIES CO., LTD. / NISSHOKU TECHNO FINE CHEMICAL CO., LTD. /
NIPPON NYUKAZAI CO., LTD. / Nisshoku Butsuryu Co., Ltd.
Nippon Shokubai America Industries, Inc. / PT. NIPPON SHOKUBAI INDONESIA / NIPPON SHOKUBAI EUROPE N.V. /
SINGAPORE ACRYLIC PTE LTD / NISSHOKU CHEMICAL INDUSTRY (ZHANGJIAGANG) CO., LTD. / "Group Companies in Japan"

"Group Companies outside Japan"

		SINO-JAPAN CHEMICAL CO.,	LTD.						
(1/3) Aspect		Classification	Conn	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Aspect		classification	Scope Nippon Shokubai	Ullic	195	198	191	197	184
			Nippon Shokubai (Production Sites)	1,000 kL	187	190	182	189	175
	Energy consumption (	Energy consumption (crude oil equivalent)			27	27	26	27	28
			Japan Group Companies outside Japan		86	91	89	85	88
	Energy intensity	Energy intensity		L/tons- production	98	104	102	109	98
	Scope 1 *1		(Production Sites)  Nippon Shokubai + Group Companies in	volume 1,000 tons- CO <sub>2</sub> e	_	_	_	_	657
		Scope 2 *1	Nippon Shokubai + Group Companies in Japan	1,000 tons- CO <sub>2</sub> e	-	-	-	-	153
	GHG emissions	Scope 1 + 2 *1	Nippon Shokubai + Group Companies in Japan	1,000 tons- CO <sub>2</sub> e	-	-	_	-	810
		Scope 3 (Category No.1-7, 12, 15) *2	Nippon Shokubai	1,000 tons- CO <sub>2</sub> e	3,984	3,887	3,774	3,637	3,862
			Nippon Shokubai	1,000 tons- CO <sub>2</sub>	_	582	590	584	605
		Scope 1	Group Companies in Japan		_	34	33	34	40 <sup>*3</sup>
Prevention of			Group Companies outside Japan		_	154	165	164	168
			Nippon Shokubai		_	180	141	143	128
global warming	CO <sub>2</sub> emissions	Scope 2	Group Companies in Japan	1,000 tons- CO <sub>2</sub>	_	29	27	25	25
			Group Companies outside Japan	CO <sub>2</sub>	-	189	172	174	181
			Nippon Shokubai		797	763	731	727	733
		Scope 1 + 2	Group Companies in Japan	1,000 tons- CO <sub>2</sub>	63	63	60	59	65 <sup>*3</sup>
			Group Companies outside Japan		302	344	337	337	349
	CO <sub>2</sub> emissions intensity		Nippon Shokubai (Production Sites)	tons/tons- production volume	0.411	0.407	0.402	0.411	0.401
	Energy source CO <sub>2</sub> emissions intensity		Nippon Shokubai (Production Sites)	tons/tons- production volume	0.194	0.199	0.192	0.205	0.182
	CH <sub>4</sub> emissions *1	CH <sub>4</sub> emissions *1		tons-CO <sub>2</sub> e		_	1 1		326 4,535
			Japan Nippon Shokubai		_	_	_		199
	N <sub>2</sub> O emissions *1		Group Companies in Japan	tons-CO <sub>2</sub> e	-	-	-	-	52
			Nippon Shokubai		6,162	1,704	3,194	3,122	7,069
	Amount of calculated leakage of fluorocarbons		Group Companies in Japan *1	tons-CO₂e				_	223
Raw material	Purchased raw materia	als	Nippon Shokubai	1,000 tons	_	1,067	1,032	969	1,047
Environmental	CO <sub>2</sub> emissions attribut	able to domestic logistics	Nippon Shokubai	1,000 tons- CO <sub>2</sub>	14.7	14.4	14.2	13.9	14.8
conservation for logistics	CO <sub>2</sub> emissions intensit logistics	y attributable to domestic	Nippon Shokubai	kg-CO <sub>2</sub> /1,000 ton-km	59.0	58.6	58.5	59.0	58.7
	109.00.00		1						

### **Environment**

(2/3)	Classif	ication	Coons	Unit	EV2017	EV2019	EV2010	EV2020	EV2021
Aspect	Classit	ication 	Scope Nippon Shokubai	Unit	FY2017	FY2018 0.0	FY2019 0.0	FY2020 0.0	FY2021 0.0
		Surface water (rivers,	Group Companies in Japan	million m <sup>3</sup>	_	0.0	0.0	0.0	0.0
		lakes, etc.)	Group Companies outside Japan		_	0.0	0.0	0.0	0.0
			Nippon Shokubai	million m <sup>3</sup>	-	0.0	0.0	0.0	0.0
		Groundwater	Group Companies in Japan		-	3.3	3.3	3.3	3.3
			Group Companies outside Japan		_	0.0	0.0	0.0	0.0
			Nippon Shokubai		_	0.0	0.0	0.0	0.0
		Sea water	Group Companies in Japan	million m <sup>3</sup>	_	0.0	0.0	0.0	0.0
	Water withdrawal		Group Companies outside Japan		_	46.4	45.4	45.8	17.1
			Nippon Shokubai		_	15.0	14.9	14.7	14.8
		Third-Party sources (tap	Group Companies in	<b>†</b> ,	_	2.6	2.6	2.7	2.6
		water, industrial water, etc.)	Japan Group Companies	million m <sup>3</sup>					
		otel)	outside Japan		_	2.2	2.1	2.1	2.6
			Nippon Shokubai	<u> </u>	15.8	15.0	14.9	14.7	14.8
		Total	Group Companies in Japan	million m <sup>3</sup>	5.6	5.8	5.9	6.0	6.0
		Total	Group Companies		46.5	48.6	47.4	47.9	19.8
		Water Stress sites *4	outside Japan Global	numbers		0	0	0	0
		Consumption in water-			_				
		stressed regions	Global	million m <sup>3</sup>	_	0.0	0.0	0.0	0.0
Water	Water discharge	Surface water (rivers, lakes, etc.)	Nippon Shokubai Group Companies in	million m <sup>3</sup>		0.0	0.0	0.0	0.0
			Japan		_	3.9	3.9	4.0	4.0
			Group Companies		_	0.6	0.6	0.7	0.7
		Subsurface	outside Japan Nippon Shokubai	million m <sup>3</sup>	_	0.0	0.0	0.0	0.0
			Group Companies in			0.0	0.0	0.0	0.0
			Japan Group Companies						
			outside Japan		-	0.0	0.0	0.0	0.0
		Ocean	Nippon Shokubai	million m <sup>3</sup>		7.8	7.7	7.9	8.1
			Group Companies in Japan		_	1.6	1.6	1.7	1.7
			Group Companies		_	46.4	45.4	45.8	17.1
		Third Party Dischargers (sewage, etc.)	outside Japan Nippon Shokubai	million m <sup>3</sup>	_	0.0	0.0	0.0	0.0
			Group Companies in			0.1	0.1	0.1	0.1
			Japan Group Companies			0.1	0.1	0.1	0.1
			outside Japan		_	0.2	0.2	0.2	0.2
		Total	Nippon Shokubai	million m <sup>3</sup>	8.1	7.9	7.7	8.0	8.2
			Group Companies in Japan		5.4	5.5	5.6	5.8	5.8
			Group Companies		45.8	47.2	46.1	46.6	18.0
			outside Japan						
			Nippon Shokubai Group Companies in	1	7.7	7.1	7.1	6.7	6.6
	Water consumption *1*5	Total	Japan	million m <sup>3</sup>	0.2	0.3	0.3	0.2	0.2
			Group Companies outside Japan		0.7	1.4	1.3	1.3	1.7
			Nippon Shokubai		2.8	3.5	3.5	3.7	3.1
	SOx emissions		Group Companies in	tons	1.5	1.6	1.4	1.6	1.4
			Japan						
	NOx emissions		Nippon Shokubai Group Companies in	tons	204	198	203	198	196
			Japan		48	45	43	48	72
Prevention of air			Nippon Shokubai	1	6.4	6.3	6.5	5.7	7.4
and water pollution	Dust emissions		Group Companies in Japan	tons	2.3	2.2	3.3	2.1	2.1
	VOC emissions		Nippon Shokubai	tons	75	82	89	57	59
			Nippon Shokubai		54	55	50	50	56
	COD emissions		Group Companies in Japan	tons	45	53	60	61	55
	Total phosphorous emission	is	Nippon Shokubai	tons	2.8	2.9	2.7	2.5	2.6
	Total nitrogen emissions	Nippon Shokubai	tons	47	58	55	52	56	

#### **Environment**

(3/3)

Aspect	Classification	Scope	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
		Nippon Shokubai		2.9	3.1	2.8	2.8	3.0
	Quantity of off-site waste *6	Group Companies in Japan	1,000 tons	5.5	5.6	6.0	5.5	7.0
		Group Companies outside Japan		0.9	2.6	0.7	1.6	0.9
		Nippon Shokubai		40	40	34	34	38
	Quantity of recycling	Group Companies in Japan	1,000 tons	2.3	2.6	2.2	2.3	2.2
Waste reduction		Group Companies outside Japan		7.8	9.3	10.3	8.6	8.7
		Nippon Shokubai		23	13	11	11	9
	1	Group Companies in Japan	tons	69	60	71	78	85
		Group Companies outside Japan		296	255	240	376	442
	Quantity of final off-site landfill / Total amount of waste generated Objective:≤0.1%	Nippon Shokubai	%	-	0.018	0.016	0.016	0.016
		Nippon Shokubai		97	96	79	83	86
Chemical		Released into Atmosphere		48	47	41	38	40
management	Substances subject to the PRTR law	Released into Water	tons	49	49	37	45	46
management		Group Companies in Japan		37	39	35	34	35
	Environmental protection cost (Investment)	Nippon Shokubai		821	2,403	2,960	327	105
Environmental	Environmental protection cost (Expense)	Nippon Shokubai	million yen	7,894	8,666	9,678	9,471	9,508
accounting	Economic effect resulting from environmental protection initiatives	Nippon Shokubai	Tillilloit yeir	5,346	2,649	2,577	2,484	6,722
Violation of environmental laws and regulations	Fines and penalties for violations of environmental laws and regulations	Global	yen	-	0	0	0	0

<sup>\*1</sup> Added new contents

<sup>\*2</sup> Category No. 15 is not included until FY2017.

<sup>\*3</sup> Review of aggregation range

<sup>\*4</sup> To conduct water risk assessments, we used the Aqueduct Water Risk Atlas of World Resources Institute (WRI).

<sup>\*5</sup> Water consumption is calculated by subtracting water discharge from water withdrawal.

<sup>\*6</sup> The quantity of off-site waste emission is obtained by subtracting the quantity of on-site reduction, on-site recycling, on-site landfill and off-site recycling from the quantity of waste generated.

#### Social

[Scope of Data Aggregation]
"Nippon Shokubai"
"Consolidated"

(1/2)

NIPPON SHOKUBAI CO., LTD.
NIPPON SHOKUBAI CO., LTD. and its consolidated subsidiaries

(1/2) Aspect	Classifi	cation	Scope	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Портого		Number of employees	Consolidated		4,219	4,454	4,510	4,555	4,526
	Number of employees	Number of employees	Nippon Shokubai		2,253	2,306	2,353	2,391	2,412
		Male	Nippon Shokubai	persons	2,069	2,114	2,156	2,185	2,197
		Female	Nippon Shokubai		184	192	197	206	215
Employees		Percentage of female	Nippon Shokubai	%	8.2	8.3	8.4	8.6	8.9
		Number of managers	Nippon Shokubai		521	530	548	568	583
	Number of managers	Male	Nippon Shokubai	persons	509	514	530	545	559
	Number of managers	Female	Nippon Shokubai		12	16	18	23	24
		Percentage of female	Nippon Shokubai	%	2.3	3.0	3.3	4.0	4.1
	Average age		Nippon Shokubai	ages	37.8	38.0	38.3	38.5	38.7
		Average length of service	Nippon Shokubai		16.0	16.1	16.2	16.4	16.5
	Length of service	Male	Nippon Shokubai	years	16.1	16.3	16.4	16.6	16.7
		Female	Nippon Shokubai		14.4	13.8	14.4	14.8	14.7
	Participation rate of labor ur	nion *1	Nippon Shokubai	%	68.8	69.7	69.4	69.9	69.8
		Number of new graduate	Nippon Shokubai		44	44	45	46	44
		hires (College graduate)		persons					
		Male	Nippon Shokubai		38	38	39	40	35
		Female	Nippon Shokubai		6	6	6	6	9
	Number of hires	Percentage of female	Nippon Shokubai	%	13.6	13.6	13.3	13.0	20.5
		Number of mid-career	Nippon Shokubai		9	13	16	13	13
		hires	''	persons					
		Male	Nippon Shokubai		8		14	12	11
Employment		Female	Nippon Shokubai		1	6	2	1	2
		Percentage of female	Nippon Shokubai	%	11.1	46.2	12.5	7.7	15.4
	Number of foreign national		Nippon Shokubai	persons	5	5	4	4	4
	Employment rate of persons		Nippon Shokubai	%	2.2	2.0	2.2	2.3	2.2
	Re-employment	Re-employment rate of retired employees	Nippon Shokubai		83.9	85.7	87.0	89.0	88.0
	Turnover/Layoff	Turnover rate of regular		%					
		employees (Personal reason)	Nippon Shokubai		1.4	1.6	1.4	1.8	2.5
		Number of employees							23
	Child Care	using child care leave			24				
		(Total numbers for fiscal	Nippon Shokubai			21	23	28	
		year)							
		Male	Nippon Shokubai	persons	2	2	3	7	8
		Female	Nippon Shokubai	persons	22	19	20	21	15
		Number of employees							
		using reduced working	Nippon Shokubai		29	27	29	27	24
		hours system for child	Мірроп Зпокаваї		29	27	29	27	24
		care							
		Return rate from child	Nippon Shokubai	%	100	100	97	100	96
		care leave of absence							
	Nursing Care	Number of employees							
		using nursing care leave	Nippon Shokubai	persons	0	1	1	1	0
		and personal reasons of		ľ	1		_	_	
		absence		-	-				
		Average annual paid leave		1	1				
Work-Life Balance		acquisition days per	Nippon Shokubai	days	days 12.3	13.4	13.0	12.6	13.4
		employee (Labor union		′			15.0		
		member)							-
		Rate of taking annual paid							
		leave (Labor union	Nippon Shokubai	%	66.1	71.6	69.0	67.2	71.3
		member)							
		Average annual paid leave							11.0
	Paid leave	acquisition days per	Nippon Shokubai	days	9.8	9.8 11.4	10.9	10.5	
		employee (Management)							
		Rate of taking annual paid		1.,					
		leave (Management)	Nippon Shokubai	%	49.1	57.1	54.5	52.4	55.0
		Average annual paid leave			1				
				days	11.5	12.9	12.5	12.2	12.9
					11	12.3		12.2	
		acquisition days per	Nippon Shokubai	days	11.5	12.9	12.5	12.2	12.5
		acquisition days per employee (All)		<u> </u>					
		acquisition days per employee (All) Rate of taking annual paid	Nippon Shokubai Nippon Shokubai	days %	60.7	68.1	65.6	63.8	67.3
	Working hours	acquisition days per employee (All)		<u> </u>					

# Social

(2/2) Aspect	Class	ification	Coope	Unit	FY2017	FY2018	FY2019	EV2020	EV2021
		I Force Labor	Scope	Unit				FY2020	FY2021
Human right	Number of Child Labor and		Consolidated	numbers	0	0	0	0	0
Human resources development	Training	Total number of hours spent on employee's training	Nippon Shokubai	hours	53,450	57,458	55,783	49,623	44,408
ac v c. ope		Training time per employee	Nippon Shokubai		23.7	24.9	23.7	20.8	18.4
	Number of injuries with los	es of workdays	Nippon Shokubai	numbers	1	2	2	1	4
	Number of injuries with los	ss of workdays	Contractors	numbers	3	1	1	3	1
	Frequency of injuries with	loss of workdays	Nippon Shokubai	<u> </u> _	0.27	0.54	0.54	0.27	1.05
	rrequeriey or injuries with	1035 of Workdays	Contractors		1.04	0.34	0.32	1.04	0.36
Occupational	Number of fatal accidents		Nippon Shokubai	numbers	0	0		0	0
safety and health			Contractors		0	0	0	0	0
	Ratio of plants with ISO 45 of occupational health and	5001 (management systems safety) *2	Consolidated	%	-	-	-	38	38
	Number of participants in including safety	company-wide RC training	Nippon Shokubai	persons	1	-	ı	181	187
		Amount paid for activities on social contributions	Nippon Shokubai		100	124	126	161	128
	Expense	Donation	Nippon Shokubai	million yor	42	54	54	95	64
	Expense	Expenditure for other activities on social contributions *3	Nippon Shokubai	million yen	58	70	72	66	64
	"Japan-China Forest Develop Global Warmir Prevention"  Number of pai "Contributing Forests and Waresources"  Number of pai "Contributing 'Contributing 'Yugawara My Forest"  Number of pai "Japan-Indone Friendship For Banten Bay fo	Number of participants for "Japan-China Friendship Forest Development and Global Warming Prevention"	Nippon Shokubai	persons	5 <sup>*4</sup>	5 <sup>*4</sup>	3 <sup>*4</sup>	0 <sup>*5</sup>	0 <sup>*5</sup>
Social contribution		Number of participants for "Contributing to Our Forests and Water Resources"	Nippon Shokubai		257	193	175	11 <sup>*5</sup>	21 <sup>*5</sup>
		Number of participants for "Contributing to the 'Yugawara Myriad Leaves Forest'"	Nippon Shokubai		151	103	56	0*5	11 <sup>*5</sup>
		Number of participants for "Japan-Indonesia Friendship Forest of Banten Bay for Biodiversity Preservation"	Nippon Shokubai PT. Nippon Shokubai Indonesia		1	58	60	5 <sup>*5</sup>	4 <sup>*5</sup>
Compliance	Number of participants in the training for new employees, new middle level employees and new managers regarding compliance		Nippon Shokubai	persons	181	183	186	219	194
	Number of internal reporti		Nippon Shokubai	numbers	1	3	4	0	0
	Number of violations for "For Compliance with Anti Bribery Laws in Nippon Shokubai Group's Code of Conduct"		Consolidated	numbers	0	0	0	0	0
Compliance with	Fine and penalty for bribery		Consolidated	yen	0	0	0	0	0
laws and regulations		For Compliance with on Shokubai Group's Code of	Consolidated	numbers	0	0	0	0	0
	Conduct" Significant violations of lav and economic area beside:	vs or regulations in the social	Consolidated	numbers	0	0	0	0	0
Contribution		s mose memoried above	Ninnan Chalasta:	von				0	
Contribution	Political Contribution	og jain the labor union based	Nippon Shokubai	yen	0	0	0	0	0

 $<sup>^{*1}</sup>$  All applicable employees join the labor union based on the Union Shop Agreement.

<sup>\*2</sup> Ratio at manufacturing sites

<sup>\*3</sup> Expenditure for Volunteer activity, Facilities offering, Other

<sup>\*4</sup> The secretariat and NPO members performed maintenance work.

<sup>\*5</sup> Volunteer activities by employees have been suspended to prevent infection from spreading of COVID-19.

To the extent possible, we carried out activities such as on-site visits with NGO/NPO and check the report.

Corporate Governance [Scope of Data Aggregation] "Nippon Shokubai" "Consolidated"

NIPPON SHOKUBAI CO., LTD. NIPPON SHOKUBAI CO., LTD., its subsidiaries and its affiliates

Aspect	Classifi	cation	Scope	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Related information for management	Number of Members of the Board	Members of the Board (incl. Outside Members of the Board)	Nippon Shokubai	persons	9	9	9	8	9
	Board	Outside Members of the Board	Nippon Shokubai		3	3	3	3	3
	Number of Members of Auditors Meeting	Statutory Corporate Auditors (incl. External Statutory Corporate Auditors)	Nippon Shokubai	persons	4	4	4	4	4
		External Statutory Corporate Auditors	Nippon Shokubai		2	2	2	2	2
	Outside Officers composition ratio of the Nominating and Remuneration Committee		Nippon Shokubai	%	66.7	66.7	66.7	66.7	66.7
	Remuneration of Members of the Board (except Outside Members of the Board)		Nippon Shokubai		391	380	334	196	333
	Remuneration of Statutory Corporate Auditors (except External Statutory Corporate Auditors)		Nippon Shokubai	million yen	48	48	47	47	46
	Remuneration of Outside Officers (except External Statutory Corporate Auditors)		Nippon Shokubai	7	36	35	34	35	36
	Voting rights for Bonus for Member of the Board		Nippon Shokubai	voting rights	Yes	Yes	Yes	_	Yes
Shareholder	Dividend	Interim	Nippon Shokubai	von	75	80	90	45	80
Si lai el loidei	DIVIGENG	Annual	Nippon Shokubai	yen	160	170	180	90	180
	Dividend Payout Ratio	Japanese GAAP	Consolidated	%	26.3	_	_	_	_
	Bividena i dyodi Natio	IFRS *1	Consolidated	70	28.2	28.4	64.7	-	30.3

<sup>\*1</sup> The Group has prepared its consolidated financial statements in accordance with the International Financial Reporting Standards (IFRS) from FY2018 (Date of transition: April 1, 2017).

[Updated Contents] July 1st, 2022

Released FY2021 data

Added new contents

Environment > Prevention of global warming > GHG emissions > Scope 1, Scope 2, Scope 1 + 2 Environment > Prevention of global warming >  $CH_4$  emissions,  $N_2O$  emissions

Environment > Prevention of global warming > Amount of calculated leakage of fluorocarbons (Group Companies in Japan)

Environment > Water > Water consumption