

Ajinomoto Co., Inc. Kawasaki Plant Site (Plant & Research laboratories)

INPUT

Item	Unit	FY2006
Input energy	TJ	2,709
Volume of water consumed	km ³	41,039

- Location: Kawasaki City, Kanagawa Prefecture
- Main Products: seasonings, amino acids
- Date ISO14001 Certification Acquired: March, 2001 (plant area)
March, 2003 (research laboratories)

OUTPUT

● Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	41.7
Volume of recovered resources	kt	41.2
Resource recovery ratio	%	99.0
Volume of disposed waste	kt	0.4

● Main PRTR Substances used

Substance name	Unit	Volume
Pyrocatechol	kg/year	148,730
Acetonitrile	kg/year	5,250
Cyclohexanamine	kg/year	1,002

● Regulatory requirements for Discharged Water

Discharge to	Item	Unit	Regulatory requirements (Maximum)	Voluntary Standard	FY2006	
					Average (Minimum)	Maximum
Public waters	pH	-	5.8~8.6	5.8~8.6	6.8	7.9
	BOD	mg/l	60	60	4.6	11.5
	T-N	mg/l	80	80	56.6	96.3
	T-P	mg/l	6.0	6.0		

● Discharged water

Item	Unit	FY2006
Volume of water discharged	km ³	4,443
BOD	t	30.1
T-N	t	0.8
T-P	t	

● Main PRTR Substances released

Substance name	Unit	Volume
Cyclohexanamine	kg/year	1,002
Zinc compound (water-soluble)	kg/year	722
Pyrocatechol	kg/year	427

● Regulatory requirements for atmospheric exhaust

Facility	Item	Unit	Control value	FY2006	
				Average	Maximum
Boiler	NOx concentration	ppm	130	53	57
	SOx concentration	ppm	-	1	1
	Concentration of soot and dust	mg/Nm ³	30	0	0

(excluding indirect cooling water)

● Atmospheric Exhaust

Item	Unit	FY2006
CO ₂ (direct combustion of fossil fuels)	kt	149.9
SOx	t	2.8
NOx	t	106.5

● Dioxin

Category	Unit	Regulatory requirements	FY2006
Air quality (exhaust gas)	ng-TEQ/Nm ³	N/A	
Incinerator ash (soot and dust)	ng-TEQ/g		
Water quality (discharge outlet)	pg-TEQ/l		

Ajinomoto Co., Inc. Tokai Plant

INPUT

Item	Unit	FY2006
Input energy	TJ	1,535
Volume of water consumed	km ³	14,772

- Location: Yokkaichi City, Mie Prefecture
- Main Products: sweeteners, seasonings, specialty chemicals, amino acids
- Date ISO 14001 Certification Acquired: November, 1999

OUTPUT

● Waste and Resource Recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	32.3
Volume of recovered resources	kt	32.2
Resource recovery ratio	%	99.9
Volume of disposed waste	kt	0.0

● Main PRTR Substances used

Substance name	Unit	Volume
N,N-dimethylformamide	kg/year	690,421
Toluene	kg/year	431,354
Acetonitrile	kg/year	64,346

● Regulatory requirements for Discharged Water

Discharge to	Item	Unit	Regulatory requirements (Maximum)	Voluntary Standard	FY2006	
					Average (Minimum)	Maximum
Public waters	pH	-	5.8~8.6	6.2~8.2	6.9	7.4
	BOD	mg/l	25	20	2.8	7.0
	T-N	mg/l	120	60	10.4	19.8
	T-P	mg/l	16.0	8.0	0.5	2.6

● Discharged water

Item	Unit	FY2006
Volume of water discharged	km ³	7,428
BOD	t	46.1
T-N	t	150.8
T-P	t	18.8

● Main PRTR Substances released

Substance name	Unit	Volume
Toluene	kg/year	165,393
Acetonitrile	kg/year	4,513
2,2-Dichloro-1,1,1-trifluoroethane	kg/year	360

● Regulatory requirements for atmospheric exhaust

Facility	Item	Unit	Control value	FY2006	
				Average (Minimum)	Maximum
Boiler	NOx concentration	ppm	65/50	21.8	28
	SOx concentration	ppm	k value regulation	0	0
	Concentration of soot and dust	mg/Nm ³	10	0	0
Incinerator	NOx concentration	ppm	200	3	6
	SOx concentration	ppm	k value regulation	0	0
	Concentration of soot and dust	mg/Nm ³	100	0	0

(excluding indirect cooling water)

● Atmospheric Exhaust

Item	Unit	FY2006
CO ₂ (direct combustion of fossil fuels)	kt	81.6
SOx	t	0.0
NOx	t	36.2

● Dioxin

Category	Unit	Regulatory requirements	FY2006
Air quality (exhaust gas)	ng-TEQ/Nm ³	10	0.00
Incinerator ash (soot and dust)	ng-TEQ/g	3	0.00
Water quality (discharge outlet)	pg-TEQ/l	10	0.09

The value of NOx concentration and control value vary depending on the timing of set-up boilers etc.
The value of SOx concentration is k value and 12.8m3N in total.

Ajinomoto Co., Inc. Kyushu Plant

INPUT

Item	Unit	FY2006
Input energy	TJ	1,497
Volume of water consumed	km ³	21,038

- Location: Saga City, Saga Prefecture
- Main Products: amino acids
- Date ISO 14001 Certification Acquired: July 1998

OUTPUT

●Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	28.4
Volume of recovered resources	kt	28.0
Resource recovery ratio	%	98.7
Volume of disposed waste	kt	0.4

●Discharged water

Item	Unit	FY2006
Volume of water discharged	km ³	10,346
BOD	t	74.0
T-N	t	425.7
T-P	t	

(water discharged from the Kyushu plant of Ajinomoto Frozen Foods Co., Inc. is included.)

(excluding indirect cooling water)

●Atmospheric Exhaust

Item	Unit	FY2006
CO ₂ (direct combustion of fossil fuels)	kt	110.9
SO _x	t	848.5
NO _x	t	76.2

●Main PRTR Substances used

Substance name	Unit	Volume
Manganese and its compounds	kg/year	657
Cyclohexanamine	kg/year	368
Acetonitrile	kg/year	131

●Main PRTR Substances released

Substance name	Unit	Volume
Manganese and its compounds	kg/year	657
Cyclohexanamine	kg/year	368
Acetonitrile	kg/year	131

●Dioxin

Category	Unit	Regulatory requirements	FY2006
Air quality (exhaust gas)	ng-TEQ/Nm ³	5	0.00
Incinerator ash (soot and dust)	ng-TEQ/g	3	0.00
Water quality (discharge outlet)	pg-TEQ/l	10	0.00

(Operation of the Incinerator suspended)

●Regulatory requirements for Discharged Water

scharged	Item	Unit	Regulatory requirements (Maximum)	Voluntary Standard	FY2006	
					Average (Minimum)	Maximum
Public waters	pH	-	5.8~8.6	60~8.0	7.2	-
	BOD	mg/l	80	40	6.8	18.6
	T-N	mg/l	120	60	40.0	68.7
	T-P	mg/l	16	16	-	-

●Regulatory requirements for atmospheric exhaust

Facility	Item	Unit	Control value	FY2006	
				Average	Maximum
Boiler	NO _x concentration	ppm	190	145	160
	SO _x concentration	ppm	1,162	757	920
	Concentration of soot and dust	mg/Nm ³	120	83	110

Knorr Foods Co., Ltd. (plant)

INPUT

Item	Unit	FY2006
Input energy	TJ	131
Volume of water consumed	km ³	165

- Location: Kawasaki City, Kanagawa Prefecture
- Main Products: soups, mayonnaise, seasonings
- Date ISO 14001 Certification Acquired: July 2003

OUTPUT

●Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	2.0
Volume of recovered resources	kt	2.0
Resource recovery ratio	%	99.9
Volume of disposed waste	kt	0.0

●Discharged water

Item	Unit	FY2006
Volume of water discharged	km ³	150
BOD	t	30.1
T-N	t	0.8
T-P	t	

●Atmospheric Exhaust

Item	Unit	FY2006
CO ₂ (direct combustion of fossil fuels)	kt	9.9
SO _x	t	
NO _x	t	

●Main PRTR Substances used

Substance name	Unit	Volume
Dichloromethane	kg/year	190

●Main PRTR Substances released

Substance name	Unit	Volume
N/A	kg/year	

●Dioxin

Category	Unit	Regulatory requirements	FY2006
Air quality (exhaust gas)	ng-TEQ/Nm ³		N/A
Incinerator ash (soot and dust)	ng-TEQ/g		N/A
Water quality (discharge outlet)	pg-TEQ/l		N/A

●Regulatory requirements for Discharged Water

scharged	Item	Unit	Regulatory requirements (Maximum)	Voluntary Standard	FY2006	
					Average (Minimum)	Maximum
Public waters	pH	-	5.8~8.6	60~8.0	6.7	7.1
	BOD	mg/l	600	600	134.7	390.0
	T-N	mg/l	240	240	3.6	12.0
	T-P	mg/l	5	5	-	-

●Regulatory requirements for atmospheric exhaust

Facility	Item	Unit	Control value	FY2006	
				Average	Maximum
Boiler	NO _x concentration	ppm		N/A	
	SO _x concentration	ppm		N/A	
	Concentration of soot and dust	mg/Nm ³		N/A	

Tokai Knorr Foods Co., Ltd (plant)

INPUT

Item	Unit	FY2006
Input energy	TJ	165
Volume of water consumed	km ³	822

- Location: Shimada City, Shizuoka Prefecture
- Main Products: retort foods, soups, seasonings
- Date ISO 14001 Certification Acquired: August 2002

OUTPUT

●Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	1.4
Volume of recovered resources	kt	1.4
Resource recovery ratio	%	100.0
Volume of disposed waste	kt	0.0

●Main PRTR Substances used

Substance name	Unit	Volume
Chlorodifluoromethane	kg/year	114

●Regulatory requirements for Discharged Water

Discharged to	Item	Unit	Regulatory requirements (Maximum)	Voluntary Standard	FY2006	
					Average (Minimum)	Maximum
Public waters	pH	-	5.8~8.6	65~8.0	7.2	7.8
	BOD	mg/l	20	5	1.0	3.1
	T-N	mg/l	-	-	0.8	1.8
	T-P	mg/l	-	-	-	-

●Discharged water

Item	Unit	FY2006
Volume of water discharged	km ³	371
BOD	t	0.5
T-N	t	0.3
T-P	t	

(excluding indirect cooling water)

●Main PRTR Substances released

Substance name	Unit	Volume
N/A	kg/year	

●Regulatory requirements for atmospheric exhaust

Facility	Item	Unit	Control value	FY2006	
				Average	Maximum
Boiler	NOx concentration	ppm	N/A		
	SOx concentration	K value			
	Concentration of soot and dust	mg/Nm ³			

●Atmospheric Exhaust

Item	Unit	FY2006
CO ₂ (direct combustion of fossil fuels)	kt	11.8
SOx	t	
NOx	t	

●Dioxin

Category	Unit	Regulatory requirements	FY2006
Air quality (exhaust gas)	ng-TEQ/Nm ³	N/A	
Incinerator ash (soot and dust)	ng-TEQ/g		
Water quality (discharge outlet)	pg-TEQ/l		

Chubu Knorr Foods Co., Ltd. (plant)

INPUT

Item	Unit	FY2006
Input energy	TJ	45
Volume of water consumed	km ³	94

- Location: Yokkaichi City, Mie Prefecture
- Main Products: sweeteners, mayonnaise, soups
- Date ISO 14001 Certification Acquired: November 2002

OUTPUT

●Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	1.9
Volume of recovered resources	kt	1.9
Resource recovery ratio	%	98.8
Volume of disposed waste	kt	0.0

●Main PRTR Substances used

Substance name	Unit	Volume
LAS	kg/year	228

●Regulatory requirements for Discharged Water

Discharged to	Item	Unit	Regulatory requirements (Maximum)	Voluntary Standard	FY2006	
					Average (Minimum)	Maximum
Public waters	pH	-	5.7~8.7	-	7.2	8.1
	BOD	mg/l	300	-	0.7	2.6
	T-N	mg/l	150	-	4.9	29.0
	T-P	mg/l	20	-	2.0	4.1

●Discharged water

Item	Unit	FY2006
Volume of water discharged	km ³	60
BOD	t	0.1
T-N	t	0.3
T-P	t	0.1

●Main PRTR Substances released

Substance name	Unit	Volume
N/A	kg/year	

●Regulatory requirements for atmospheric exhaust

Facility	Item	Unit	Control value	FY2006	
				Average	Maximum
Boiler	NOx concentration	ppm	75.0	48	48
	SOx concentration	ppm	105.0	-	-
	Concentration of soot and dust	mg/Nm ³	100.0	-	-

●Atmospheric Exhaust

Item	Unit	FY2006
CO ₂ (direct combustion of fossil fuels)	kt	3.8
SOx	t	
NOx	t	

●Dioxin

Category	Unit	Regulatory requirements	FY2006
Air quality (exhaust gas)	ng-TEQ/Nm ³	N/A	
Incinerator ash (soot and dust)	ng-TEQ/g		
Water quality (discharge outlet)	pg-TEQ/l		

Ajinomoto Frozen Foods Co., Inc. Kanto Plant

INPUT

Item	Unit	FY2006
Input energy	TJ	126
Volume of water consumed	km ³	322

- Location: Ooizumi-cho, Oura-gun, Gunma Prefecture
- Main Products: frozen foods
- Date ISO 14001 Certification Acquired: March 2005

OUTPUT

●Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	2.9
Volume of recovered resources	kt	2.9
Resource recovery ratio	%	99.9%
Volume of disposed waste	kt	0.0

●Discharged water

Item	Unit	FY2006
Volume of water discharged	km ³	197
BOD	t	1.2
T-N	t	0.3
T-P	t	0.1

●Atmospheric Exhaust

Item	Unit	FY2006
CO2 (direct combustion of fossil fuels)	kt	11.3
SOx	t	31.9
NOx	t	7.4

●Main PRTR Substances used

Substance name	Unit	Volume
Chlorodifluoromethane	kg/year	1,500

●Main PRTR Substances released

Substance name	Unit	Volume
Chlorodifluoromethane	kg/year	1,500

●Dioxin

Category	Unit	Regulatory requirements	FY2006
Air quality (exhaust gas)	ng-TEQ/Nm ³	N/A	
Incinerator ash (soot and dust)	ng-TEQ/g		
Water quality (discharge outlet)	pg-TEQ/l		

●Regulatory requirements for Discharged Water

Discharged to	Item	Unit	Regulatory requirements (Maximum)	Voluntary Standard	FY2006	
					Average (Minimum)	Maximum
Public waters	pH	-	8.6	8.6	7.6	7.6
	BOD	mg/l	25	20	5.0	15.7
	T-N	mg/l	120	12	0.8	3.1
	T-P	mg/l	16	16	0.3	18.0

●Regulatory requirements for atmospheric exhaust

Facility	Item	Unit	Control value	FY2006	
				Average	Maximum
Boiler	NOx concentration	ppm	150	-	-
	SOx concentration	ppm	-	-	-
	Concentration of soot and dust	mg/Nm ³	300	-	-

Ajinomoto Frozen Foods Co., Inc. Shikoku Plant

INPUT

Item	Unit	FY2006
Input energy	TJ	113
Volume of water consumed	km ³	181

- Location: Sanuki City, Kagawa Prefecture
- Main Products: frozen foods
- Date ISO 14001 Certification Acquired: March 2005

OUTPUT

●Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	2.6
Volume of recovered resources	kt	2.6
Resource recovery ratio	%	99.5
Volume of disposed waste	kt	0.0

●Discharged water

Item	Unit	FY2006
Volume of water discharged	km ³	181
BOD	t	—
T-N	t	—
T-P	t	—

(disposed at the water treatment plant in the industrial complex)

●Atmospheric Exhaust

Item	Unit	FY2006
CO2 (direct combustion of fossil fuels)	kt	9.9
SOx	t	47.4
NOx	t	24.2

●Main PRTR Substances used

Substance name	Unit	Volume
Chlorodifluoromethane	kg/year	400

●Main PRTR Substances released

Substance name	Unit	Volume
Chlorodifluoromethane	kg/year	400

●Dioxin

Category	Unit	Regulatory requirements	FY2006
Air quality (exhaust gas)	ng-TEQ/Nm ³	N/A	
Incinerator ash (soot and dust)	ng-TEQ/g		
Water quality (discharge outlet)	pg-TEQ/l		

●Regulatory requirements for Discharged Water

Discharged to	Item	Unit	Regulatory requirements (Maximum)	Voluntary Standard	FY2006	
					Average	Maximum
Public waters	pH	-	-	8.7	-	-
	BOD	mg/l	-	300	-	-
	T-N	mg/l	-	150	-	-
	T-P	mg/l	-	20	-	-

●Regulatory requirements for atmospheric exhaust

Facility	Item	Unit	Control value	FY2006	
				Average	Maximum
Boiler	NOx concentration	ppm	180	-	-
	SOx concentration	ppm	-	-	-
	Concentration of soot and dust	mg/Nm ³	300	-	-

Ajinomoto Frozen Foods Co., Inc. Kyushu Plant

INPUT

Item	Unit	FY2006
Input energy	TJ	71
Volume of water consumed	km ³	150

- Location: Saga-gun, Saga Prefecture
- Main Products: frozen foods
- Date ISO 14001 Certification Acquired: March 2003

OUTPUT

●Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	1.2
Volume of recovered resources	kt	1.2
Resource recovery ratio	%	99.9
Volume of disposed waste	kt	0.0

●Main PRTR Substances used

Substance name	Unit	Volume
Chlorodifluoromethane	kg/year	120

●Regulatory requirements for Discharged Water

Discharged to	Item	Unit	Regulatory requirements (Maximum)	Voluntary Standard	FY2006	
					Average (Minimum)	Maximum
Public waters	pH	-	N/A	N/A	-	-
	BOD	mg/l				
	T-N	mg/l				
	T-P	mg/l				

●Discharged water

Item	Unit	FY2006
Volume of water discharged	km ³	150
BOD	t	—
T-N	t	—
T-P	t	—

●Main PRTR Substances released

Substance name	Unit	Volume
Chlorodifluoromethane	kg/year	120

●Regulatory requirements for atmospheric exhaust

Facility	Item	Unit	Control value	FY2006	
				Average	Maximum
Boiler	NOx concentration	ppm	250	-	-
	SOx concentration	ppm	—	-	-
	Concentration of soot and dust	mg/Nm ³	300	-	-

(disposed at the Kyushu plant of Ajinomoto Co., Inc.)

●Atmospheric Exhaust

Item	Unit	FY2006
CO ₂ (direct combustion of fossil fuels)	kt	6.3
SO _x	t	21.8
NO _x	t	10.1

●Dioxin

Category	Unit	Regulatory requirements	FY2006
Air quality (exhaust gas)	ng-TEQ/Nm ³	N/A	
Incinerator ash (soot and dust)	ng-TEQ/g		
Water quality (discharge outlet)	pg-TEQ/l		

Ajinomoto Frozen Foods Co., Inc. Chubu Plant

INPUT

Item	Unit	FY2006
Input energy	TJ	112
Volume of water consumed	km ³	212

- Location: Ikeda-cho, Ibi-gun, Gifu Prefecture
- Main Products: frozen foods
- Date ISO 14001 Certification Acquired: February 2000

OUTPUT

●Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	2.2
Volume of recovered resources	kt	2.2
Resource recovery ratio	%	100.0
Volume of disposed waste	kt	0.0

●Main PRTR Substances used

Substance name	Unit	Volume
Chlorodifluoromethane	kg/year	2,540

●Regulatory requirements for Discharged Water

Discharged to	Item	Unit	Regulatory requirements (Maximum)	Voluntary Standard	FY2006	
					Average (Minimum)	Maximum
Public waters	pH	-	5.8~8.6	—	6.3	7.3
	BOD	mg/l	70	—	10.9	36.5
	T-N	mg/l	N/A	—	10.3	34.5
	T-P	mg/l	N/A	—	4.5	13.6

●Discharged water

Item	Unit	FY2006
Volume of water discharged	km ³	103
BOD	t	1.3
T-N	t	1.2
T-P	t	0.9

●Main PRTR Substances released

Substance name	Unit	Volume
Chlorodifluoromethane	kg/year	800

●Regulatory requirements for atmospheric exhaust

Facility	Item	Unit	Control value	FY2006	
				Average	Maximum
Boiler	NOx concentration	ppm	180	—	—
	SOx concentration	ppm	11.5	—	—
	Concentration of soot and dust	mg/Nm ³	300	—	—

●Atmospheric Exhaust

Item	Unit	FY2006
CO ₂ (direct combustion of fossil fuels)	kt	8.8
SO _x	t	15.1
NO _x	t	29.0

●Dioxin

Category	Unit	Regulatory requirements	FY2006
Air quality (exhaust gas)	ng-TEQ/Nm ³	N/A	
Incinerator ash (soot and dust)	ng-TEQ/g		
Water quality (discharge outlet)	pg-TEQ/l		

Ajinomoto Medica Co., Ltd. Saitama Factory

INPUT

Item	Unit	FY2006
Input energy	TJ	134
Volume of water consumed	km ³	166

- Location: Kawashima-cho, Hiki-gun, Saitama Prefecture
- Main Products: infusions
- Date ISO 14001 Certification Acquired: April 2006
(Original certification is March 2005)

OUTPUT

● Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	0.7
Volume of recovered resources	kt	0.7
Resource recovery ratio	%	99.7
Volume of disposed waste	kt	0.0

● Main PRTR Substances used

Substance name	Unit	Volume
N/A	kg/year	

● Regulatory requirements for Discharged Water

Discharged to	Item	Unit	Regulatory requirements (Maximum)	Voluntary Standard	FY2006	
					Average (Minimum)	Maximum
Public waters	pH	-	5~9	5.2~8.8	7.2	7.7
	BOD	mg/l	600	364	9.2	440.0
	T-N	mg/l	240	—	5.1	11.0
	T-P	mg/l	32	—	0.7	1.1

● Discharged water

Item	Unit	FY2006
Volume of water discharged	km ³	124
BOD	t	3.7
T-N	t	0.7
T-P	t	0.1

● Main PRTR Substances released

Substance name	Unit	Volume
N/A	kg/year	

● Regulatory requirements for atmospheric exhaust

Facility	Item	Unit	Control value	FY2006	
				Average	Maximum
Boiler	NOx concentration	ppm	60	27	41
	SOx concentration	ppm	—	7	7
	Concentration of soot and dust	mg/Nm ³	50	2	2

● Atmospheric Exhaust

Item	Unit	FY2006
CO ₂ (direct combustion of fossil fuels)	kt	9.0
SOx	t	0.0
NOx	t	4.0

● Dioxin

Category	Unit	Regulatory requirements	FY2006
Air quality (exhaust gas)	ng-TEQ/Nm ³	N/A	
Incinerator ash (soot and dust)	ng-TEQ/g		
Water quality (discharge outlet)	pg-TEQ/l		

Ajinomoto Medica Co., Ltd. Fukushima Factory

INPUT

Item	Unit	FY2006
Input energy	TJ	108
Volume of water consumed	km ³	58

- Location: Shirakawa City, Fukushima Prefecture
- Main Products: elemental diet products, insulin secretagogue
- Date ISO 14001 Certification Acquired: April 2006
(Original certification is March 2005)

OUTPUT

● Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	0.4
Volume of recovered resources	kt	0.4
Resource recovery ratio	%	95.8
Volume of disposed waste	kt	0.0

● Main PRTR Substances used

Substance name	Unit	Volume
Dichloromethane	kg/year	34,915
Acetonitrile	kg/year	720

● Regulatory requirements for Discharged Water

Discharged to	Item	Unit	Regulatory requirements (Maximum)	Voluntary Standard	FY2006	
					Average (Minimum)	Maximum
Public waters	pH	-	5.8~8.6	-	6.6	7.1
	BOD	mg/l	160	—	6.9	21
	T-N	mg/l	120	—	8.3	19.0
	T-P	mg/l	16	—	—	—

● Discharged water

Item	Unit	FY2006
Volume of water discharged	km ³	37
BOD	t	0.3
T-N	t	0.4
T-P	t	

● Main PRTR Substances released

Substance name	Unit	Volume
Dichloromethane	kg/year	2,508

● Regulatory requirements for atmospheric exhaust

Facility	Item	Unit	Control value	FY2006	
				Average	Maximum
Boiler	NOx concentration	ppm	—	46	99
	SOx concentration	ppm	—	—	2
	Concentration of soot and dust	mg/Nm ³	—	—	1

● Atmospheric Exhaust

Item	Unit	FY2006
CO ₂ (direct combustion of fossil fuels)	kt	8.2
SOx	t	0.0
NOx	t	1.4

● Dioxin

Category	Unit	Regulatory requirements	FY2006
Air quality (exhaust gas)	ng-TEQ/Nm ³	N/A	
Incinerator ash (soot and dust)	ng-TEQ/g		
Water quality (discharge outlet)	pg-TEQ/l		

Ajinomoto Medica Co., Ltd. Shimizu Factory

INPUT

Item	Unit	FY2006
Input energy	TJ	56
Volume of water consumed	km ³	262

- Location: Shimizumiyakami, Shizuoka Prefecture
- Main Products: infusions
- Date ISO 14001 Certification Acquired: April 2006

OUTPUT

●Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	1.6
Volume of recovered resources	kt	1.5
Resource recovery ratio	%	98.9
Volume of disposed waste	kt	0.0

●Main PRTR Substances used

Substance name	Unit	Volume
N/A	kg/year	

●Regulatory requirements for Discharged Water

Discharged to	Item	Unit	Regulatory requirements (Maximum)	Voluntary Standard	FY2006	
					Average (Minimum)	Maximum
Public waters	pH	-	5~9	—	7.6	8.4
	BOD	mg/l	600	—	0.9	5.3
	T-N	mg/l	240	—	0.9	1.4
	T-P	mg/l	32	—	—	—

●Discharged water

Item	Unit	FY2006
Volume of water discharged	km ³	56
BOD	t	0.0
T-N	t	0.0
T-P	t	

●Main PRTR Substances released

Substance name	Unit	Volume
N/A	kg/year	

●Regulatory requirements for atmospheric exhaust

Facility	Item	Unit	Control value	FY2006	
				Average	Maximum
Boiler	NOx concentration	ppm	—	—	—
	SOx concentration	ppm	—	—	—
	Concentration of soot and dust	mg/Nm ³	—	—	—

(excluding indirect cooling water)

●Atmospheric Exhaust

Item	Unit	FY2006
CO ₂ (direct combustion of fossil fuels)	kt	4.2
SO _x	t	
NO _x	t	1.8

●Dioxin

Category	Unit	Regulatory requirements	FY2006
Air quality (exhaust gas)	ng-TEQ/Nm ³	N/A	
Incinerator ash (soot and dust)	ng-TEQ/g		
Water quality (discharge outlet)	pg-TEQ/l		

Ajinomoto Medica Co., Ltd. Oigawa Factory

INPUT

Item	Unit	FY2006
Input energy	TJ	210
Volume of water consumed	km ³	765

- Location: Oigawa-cho, Shita-gun, Shizuoka Prefecture
- Main Products: infusions
- Date ISO 14001 Certification Acquired: April 2006

OUTPUT

●Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	0.4
Volume of recovered resources	kt	0.4
Resource recovery ratio	%	98.2
Volume of disposed waste	kt	0.0

●Main PRTR Substances used

Substance name	Unit	Volume
N/A	kg/year	

●Regulatory requirements for Discharged Water

Discharged to	Item	Unit	Regulatory requirements (Maximum)	Voluntary Standard	FY2006	
					Average (Minimum)	Maximum
Public waters	pH	-	5.8~8.6	5.8~8.6	7.0	7.8
	BOD	mg/l	160	25	3.5	7.7
	T-N	mg/l	120	-	0.0	0.0
	T-P	mg/l	-	-	-	-

●Discharged water

Item	Unit	FY2006
Volume of water discharged	km ³	670
BOD	t	1.2
T-N	t	0.3
T-P	t	

●Main PRTR Substances released

Substance name	Unit	Volume
N/A	kg/year	

●Regulatory requirements for atmospheric exhaust

Facility	Item	Unit	Control value	FY2006	
				Average	Maximum
Boiler	NOx concentration	ppm	180	-	27
	SOx concentration	ppm	-	-	83
	Concentration of soot and dust	mg/Nm ³	300	-	10

●Atmospheric Exhaust

Item	Unit	FY2006
CO ₂ (direct combustion of fossil fuels)	kt	16.4
SO _x	t	6.0
NO _x	t	12.4

●Dioxin

Category	Unit	Regulatory requirements	FY2006
Air quality (exhaust gas)	ng-TEQ/Nm ³	N/A	
Incinerator ash (soot and dust)	ng-TEQ/g		
Water quality (discharge outlet)	pg-TEQ/l		

Thailand Area Ajinomoto Co., (Thailand) Ltd.

Phra Pradaeng Factory, Pathum Thani Factory, Kamphaeng Phet Factory, Nong Khae Factory

INPUT

Item	Unit	FY2006
Input energy	TJ	4,818
Volume of water consumed	kt	23,569

Location: Thailand

Main Products: seasonings, feed use amino acids

Date ISO14001 Certification Acquired: July 2003 Phra Pradaeng Factory
September 2001 Pathum Thani Factory
June 2002 Kamphaeng Phet Factory
January 2006 Nong Khae Factory

OUTPUT

Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	234.6
Volume of recovered resources	kt	233.4
Resource recovery ratio	%	99.3
		99.7
		99.8
		30.6
Volume of disposed waste	kt	1.3

Phra Pradaeng Factory
Pathum Thani Factory
Kamphaeng Phet Factory
Nong Khae Factory

Atmospheric Exhaust

Item	Unit	FY2006
CO2 (direct combustion of fossil fuels)	kt	445.5
SOx	t	398.9
NOx	t	70.3

Major chemical substances covered by Japan's PRTR

Substance name	Unit	Volume used	Volume discharged to the environment
Manganese and its compounds	kg/year	3,716	0

Discharged water

Item	Unit	FY2006
Volume of water discharged	kt	2,085
BOD	t	11.0
T-N	t	28.3
T-P	t	

(excluding indirect cooling water)

Brazil Area Ajinomoto Interamericana Industria e Comercio Ltda., Limeira Plant,

Ajinomoto Biolatina Industria e Comercio Ltda., Laranjal Paulista Plant, Valparaiso Plant

INPUT

Item	Unit	FY2006
Input energy	TJ	3,934
Volume of water consumed	kt	13,437

Location: Brazil

Main Products: seasonings, feed-use amino acids

Date ISO14001 Certification Acquired: December 2001 Limeira Plant
June 2003 Laranjal Paulista Plant
November 2004 Valparaiso Plant

OUTPUT

Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	542.8
Volume of recovered resources	kt	533.9
Resource recovery ratio	%	96.3
		98.8
		99.8
Volume of disposed waste	kt	9.0

Limeira Plant
Laranjal Paulista Plant
Valparaiso Plant

Atmospheric Exhaust

Item	Unit	FY2006
CO2 (direct combustion of fossil fuels)	kt	181.4
SOx	t	387.6
NOx	t	153.2

Major chemical substances covered by Japan's PRTR

Substance name	Unit	Volume used	Volume discharged to the environment
Acetonitrile	kg/year	118	0

Discharged water

Item	Unit	FY2006
Volume of water discharged	kt	1,796
BOD	t	22.0
T-N	t	31.3
T-P	t	

(excluding indirect cooling water and dispersal to land)

France Area Ajinomoto Euro-Aspartame S.A.S Dunkerque Plant, AJINOMOTO EUROLYSINE S.A.S Amiens Plant, Ajinomoto Foods Europe S.A.S Nesle Plant

INPUT

Item	Unit	FY2006
Input energy	TJ	3,985
Volume of water consumed	kt	10,912

Location: France
Main Products: sweeteners and feed-use amino acid
Date ISO14001 Certification Acquired: January 2006 Dunkerque Plant
March 2006 Amiens Plant
December 2006 Nesle Plant

OUTPUT

Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	226.9
Volume of recovered resource	kt	215.8
Resource recovery ratio	%	4.1 Dunkerque Plant
		99.7 Amiens Plant
		99.9 Nesle Plant
Volume of disposed waste	kt	11.1

Atmospheric Exhaust

Item	Unit	FY2006
CO2 (direct combustion of fossil fuels)	kt	155.0
SOx	t	0.8
NOx	t	79.9

Discharged water

Item	Unit	FY2006
Volume of water discharged	kt	6,467
BOD	t	46.9
T-N	t	219.6
T-P	t	0.5

Major chemical substances covered by Japan's PRTR

Substance name	Unit	Volume used	Volume discharged to the environment
Toluene	kg/year	26,783.0	0.0
Formaldehyde	kg/year	134.0	0.0

(excluding indirect cooling water)

U.S.A Area Ajinomoto Food Ingredients LLC, Iowa Plant, Ajinomoto Heartland LLC, Eddyville Plant, Ajinomoto AminoScience LLC, North Carolina Plant

INPUT

Item	Unit	FY2006
Input energy	TJ	3,303
Volume of water consumed	kt	3,146

Location: U.S.A
Main Products: seasonings, feed-use amino acids, pharmaceutical-use amino acids
Date ISO14001 Certification Acquired: November 2003 Iowa Plant
April 2004 Eddyville Plant
May 2004 North Carolina Plant

OUTPUT

Waste and Resource recovery

Item	Unit	FY2006
Volume of generated waste & by-products	kt	180.2
Volume of recovered resource	kt	179.7
Resource recovery ratio	%	99.9 Iowa Plant
		99.7 Eddyville Plant
		97.5 North Carolina Plant
Volume of disposed waste	kt	0.5

Atmospheric Exhaust

Item	Unit	FY2006
CO2 (direct combustion of fossil fuels)	kt	246.4
SOx	t	2.3
NOx	t	87.2

Discharged water

Item	Unit	FY2006
Volume of water discharged	kt	2,077
BOD	t	1,128.4
T-N	t	563.0
T-P	t	

Major chemical substances covered by Japan's PRTR

Substance name	Unit	Volume used	Volume discharged to the environment
Manganese and its compounds	kg/year	3,887.0	3,887.0

(excluding indirect cooling water)