

คุณภาพน้ำเสีย

**Report No. : 2024-500000557 / 001-3 (Page 1 of 1)** Issued date : February 15, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :  
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality SAMPLING DATE : January 8, 2024  
 SAMPLING LOCATION : Sanitary Biological SAMPLING BY :  
 Treatment Unit, ABS/SAN Plant  
 LABORATORY NAME : SGS (Thailand) Limited (๓-197)

Parameter	Unit	Method	Result	Standard*
Temperature	°C	APHA, 2550 B	29.4	≤ 40
pH	-	APHA, 4500-H <sup>+</sup> B	7.3	5.5-9.0
TDS	mg/l	APHA, 2540 C	1,900	≤ 9,040 <sup>1/</sup>
SS	mg/l	APHA, 2540 D	4.3	≤ 50
COD	mg/l	APHA, 5220 C	37	≤ 120
BOD	mg/l	APHA, 5210 B	7	≤ 20
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	≤ 5

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 23<sup>rd</sup> edition, 2017.

<sup>1/</sup> TDS standard is varied by TDS of Khlong Chak Mark (Upstream) of December plus 5,000 mg/l.  
 (TDS of Khlong Chak Mark (Upstream) of December 2023 = 4,040 mg/l).

**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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**Report No. : 2024-500000557 / 001-1 (Page 1 of 2)** Issued date : February 15, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality **SAMPLING DATE :** January 8, 2024  
**SAMPLING LOCATION :** Equalization Tank, **SAMPLING BY :** [REDACTED]  
 ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited (๓-197)

Parameter	Unit	Method	Result
Temperature	°C	APHA, 2550 B	38.5
pH	-	APHA, 4500-H <sup>+</sup> B	7.5
TDS	mg/l	APHA, 2540 C	2,980
SS	mg/l	APHA, 2540 D	403
COD	mg/l	APHA, 5220 C	2,198
BOD	mg/l	APHA, 5210 B	440
Fat, Oil and Grease	mg/l	APHA, 5520 B	16

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 23<sup>rd</sup> edition, 2017.  
 - Because wastewater from equalization tank is not directly discharged to surface water sources, the analysis result is not compared with the effluent standard.

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**Report No. : 2024-500000557 / 001-1 (Page 2 of 2)** Issued date : February 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :  
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail :

## Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality  
 SAMPLING LOCATION : Equalization Tank,  
 ABS/SAN Plant  
 LABORATORY NAME : SGS (Thailand) Limited  
 SAMPLING DATE : January 8, 2024  
 SAMPLING BY :

Parameter	Unit	Method	Result
Acrylonitrile	mg/l	Based on USEPA, 8260B	1,337
Styrene	mg/l	APHA, 6200B	41.97

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 23<sup>rd</sup> edition, 2017.  
 - United States Environmental Protection Agency, Revision 2, December 1996.  
 - Because wastewater from equalization tank is not directly discharged to surface water sources, the analysis result is not compared with the effluent standard.

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**Report No. : 2024-500000557 / 001-2 (Page 1 of 2)** Issued date : February 15, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail :** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality **SAMPLING DATE :** January 8, 2024  
**SAMPLING LOCATION :** Treated Wastewater Tank, **SAMPLING BY :** [REDACTED]  
 ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited (๓-197)

Parameter	Unit	Method	Result	Standard*
Temperature	°C	APHA, 2550 B	37.0	≤ 40
pH	-	APHA, 4500-H <sup>+</sup> B	7.0	5.5-9.0
TDS	mg/l	APHA, 2540 C	2,660	≤ 9,040 <sup>1/</sup>
SS	mg/l	APHA, 2540 D	22	≤ 50
COD	mg/l	APHA, 5220 C	61	≤ 120
BOD	mg/l	APHA, 5210 B	10	≤ 20
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	≤ 5

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 23<sup>rd</sup> edition, 2017.  
<sup>1/</sup> TDS standard is varied by TDS of Khlong Chak Mark (Upstream) of December plus 5,000 mg/l.  
 (TDS of Khlong Chak Mark (Upstream) of December 2023 = 4,040 mg/l).  
**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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**Report No. : 2024-500000557 / 001-2 (Page 2 of 2)** Issued date : February 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut. A. Muang. Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality SAMPLING DATE : January 8, 2024  
 SAMPLING LOCATION : Treated Wastewater Tank, SAMPLING BY :   
 ABS/SAN Plant  
 LABORATORY NAME : SGS (Thailand) Limited

Parameter	Unit	Method	Result	Standard*
Acrylonitrile	mg/l	Based on USEPA, 8260B	<0.001	-
Styrene	mg/l	APHA, 6200B	<0.001	-

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 23<sup>rd</sup> edition, 2017.  
 - United States Environmental Protection Agency, Revision 2, December 1996.  
**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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**Report No. : 2024-500000778/ 001-3 (Page 1 of 1)** Issued date : February 27, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :  
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality SAMPLING DATE : February 8, 2024  
 SAMPLING LOCATION : Sanitary Biological SAMPLING BY :  
 Treatment Unit, ABS/SAN Plant  
 LABORATORY NAME : SGS (Thailand) Limited (๓-197)

Parameter	Unit	Method	Result	Standard*
Temperature	°C	APHA, 2550 B	30.3	≤ 40
pH	-	APHA, 4500-H <sup>+</sup> B	7.6	5.5-9.0
TDS	mg/l	APHA, 2540 C	772	≤ 9,980 <sup>1/</sup>
SS	mg/l	APHA, 2540 D	5.5	≤ 50
COD	mg/l	APHA, 5220 C	31	≤ 120
BOD	mg/l	APHA, 5210 B	6	≤ 20
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	≤ 5

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 23<sup>rd</sup> edition, 2017.

<sup>1/</sup> TDS standard is varied by TDS of Khlong Chak Mark (Upstream) of January plus 5,000 mg/l.  
 (TDS of Khlong Chak Mark (Upstream) of January 2024 = 4,980 mg/l).

**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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E 276060

**Report No. : 2024-500000778 / 001-1 (Page 1 of 2)**

**Issued date :** February 27, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.

**CONTACT :** [REDACTED]

**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality

**SAMPLING DATE :** February 8, 2024

**SAMPLING LOCATION :** Equalization Tank,

**SAMPLING BY :** [REDACTED]

ABS/SAN Plant

**LABORATORY NAME :** SGS (Thailand) Limited (2-197)

Parameter	Unit	Method	Result
Temperature	°C	APHA, 2550 B	43.0
pH	-	APHA, 4500-H <sup>+</sup> B	7.7
TDS	mg/l	APHA, 2540 C	2,155
SS	mg/l	APHA, 2540 D	885
COD	mg/l	APHA, 5220 C	1,004
BOD	mg/l	APHA, 5210 B	215
Fat, Oil and Grease	mg/l	APHA, 5520 B	22

**Remarks :**

- Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 23<sup>rd</sup> edition, 2017.
- Because wastewater from equalization tank is not directly discharged to surface water sources, the analysis result is not compared with the effluent standard.

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**Report No. : 2024-500000778 / 001-1 (Page 2 of 2)** Issued date : February 27, 2024

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 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality  
 SAMPLING LOCATION : Equalization Tank,  
 ABS/SAN Plant  
 LABORATORY NAME : SGS (Thailand) Limited  
 SAMPLING DATE : February 8, 2024  
 SAMPLING BY :

Parameter	Unit	Method	Result
Acrylonitrile	mg/l	Based on USEPA, 8260B	0.024
Styrene	mg/l	APHA, 6200B	0.038

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 23<sup>rd</sup> edition, 2017.  
 - United States Environmental Protection Agency, Revision 2, December 1996.  
 - Because wastewater from equalization tank is not directly discharged to surface water sources, the analysis result is not compared with the effluent standard.

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E 276057

**Report No. : 2024-500000778 / 001-2 (Page 1 of 2)** Issued date : February 27, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality SAMPLING DATE : February 8, 2024  
 SAMPLING LOCATION : Treated Wastewater Tank, SAMPLING BY :   
 ABS/SAN Plant  
 LABORATORY NAME : SGS (Thailand) Limited (๓-197)

Parameter	Unit	Method	Result	Standard*
Temperature	°C	APHA, 2550 B	30.8	≤ 40
pH	-	APHA, 4500-H <sup>+</sup> B	7.4	5.5-9.0
TDS	mg/l	APHA, 2540 C	2,270	≤ 9,980 <sup>1/</sup>
SS	mg/l	APHA, 2540 D	<2.5	≤ 50
COD	mg/l	APHA, 5220 C	44	≤ 120
BOD	mg/l	APHA, 5210 B	7	≤ 20
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	≤ 5

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 23<sup>rd</sup> edition, 2017.

<sup>1/</sup> TDS standard is varied by TDS of Khlong Chak Mark (Upstream) of January plus 5,000 mg/l.  
 (TDS of Khlong Chak Mark (Upstream) of January 2024 = 4,980 mg/l).

**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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E 276058



**Report No. : 2024-500000778 / 001-2 (Page 2 of 2)** Issued date : February 27, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
CONTACT :   
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
Tel. Fax. E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality  
SAMPLING LOCATION : Treated Wastewater Tank, ABS/SAN Plant  
LABORATORY NAME : SGS (Thailand) Limited  
SAMPLING DATE : February 8, 2024  
SAMPLING BY :

Parameter	Unit	Method	Result	Standard*
Acrylonitrile	mg/l	Based on USEPA, 8260B	<0.001	-
Styrene	mg/l	APHA, 6200B	<0.001	-

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 23<sup>rd</sup> edition, 2017.  
- United States Environmental Protection Agency, Revision 2, December 1996.  
**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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**Report No. : 2024-500000976 / 001-3 (Page 1 of 1)** Issued date : March 25, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality **SAMPLING DATE :** March 13, 2024  
**SAMPLING LOCATION :** Sanitary Biological **SAMPLING BY :**   
 Treatment Unit, ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited (2-197)

Parameter	Unit	Method	Result	Standard*
Temperature	°C	APHA, 2550 B	29.7	≤ 40
pH	-	APHA, 4500-H <sup>+</sup> B	7.9	5.5-9.0
TDS	mg/l	APHA, 2540 C	1,912	≤ 9,622 <sup>1/</sup>
SS	mg/l	APHA, 2540 D	10	≤ 50
COD	mg/l	APHA, 5220 C	43	≤ 120
BOD	mg/l	APHA, 5210 B	8	≤ 20
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	≤ 5

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.

<sup>1/</sup> TDS standard is varied by TDS of Khlong Chak Mark (Upstream) of February plus 5,000 mg/l.  
 (TDS of Khlong Chak Mark (Upstream) of February 2024 = 4,622 mg/l).

**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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**Report No. : 2024-500000976 / 001-1 (Page 1 of 2)** Issued date : March 25, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality SAMPLING DATE : March 13, 2024  
 SAMPLING LOCATION : Equalization Tank, SAMPLING BY :   
 ABS/SAN Plant  
 LABORATORY NAME : SGS (Thailand) Limited (๓-197)

Parameter	Unit	Method	Result
Temperature	°C	APHA, 2550 B	40.2
pH	-	APHA, 4500-H <sup>+</sup> B	8.0
TDS	mg/l	APHA, 2540 C	3,184
SS	mg/l	APHA, 2540 D	1,234
COD	mg/l	APHA, 5220 C	1,354
BOD	mg/l	APHA, 5210 B	221
Fat, Oil and Grease	mg/l	APHA, 5520 B	18

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.  
 - Because wastewater from equalization tank is not directly discharged to surface water sources, the analysis result is not compared with the effluent standard.

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**Report No. : 2024-500000976 / 001-1 (Page 2 of 2)** Issued date : March 25, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality  
**SAMPLING LOCATION :** Equalization Tank, ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited  
**SAMPLING DATE :** March 13, 2024  
**SAMPLING BY :**

Parameter	Unit	Method	Result
Acrylonitrile	mg/l	Based on USEPA, 8260B	<0.001
Styrene	mg/l	APHA, 6200B	1.535

**Remarks :**

- Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.
- United States Environmental Protection Agency, Revision 2, December 1996.
- Because wastewater from equalization tank is not directly discharged to surface water sources, the analysis result is not compared with the effluent standard.

TY/RS/SV/SV

SGS (THAILAND) LIMITED



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E 277616

**Report No. : 2024-500000976 / 001-2 (Page 1 of 2)** Issued date : March 25, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality **SAMPLING DATE :** March 13, 2024  
**SAMPLING LOCATION :** Treated Wastewater Tank, **SAMPLING BY :** [REDACTED]  
 ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited (2-197)

Parameter	Unit	Method	Result	Standard*
Temperature	°C	APHA, 2550 B	34.7	≤ 40
pH	-	APHA, 4500-H <sup>+</sup> B	7.5	5.5-9.0
TDS	mg/l	APHA, 2540 C	3,316	≤ 9,622 <sup>1/</sup>
SS	mg/l	APHA, 2540 D	21	≤ 50
COD	mg/l	APHA, 5220 C	86	≤ 120
BOD	mg/l	APHA, 5210 B	16	≤ 20
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	≤ 5

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.

<sup>1/</sup> TDS standard is varied by TDS of Khlong Chak Mark (Upstream) of February plus 5,000 mg/l.  
 (TDS of Khlong Chak Mark (Upstream) of February 2024 = 4,622 mg/l).

**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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E 277617

**Report No. : 2024-500000976 / 001-2 (Page 2 of 2)** Issued date : March 25, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate. T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality SAMPLING DATE : March 13, 2024  
 SAMPLING LOCATION : Treated Wastewater Tank, ABS/SAN Plant SAMPLING BY :   
 LABORATORY NAME : SGS (Thailand) Limited

Parameter	Unit	Method	Result	Standard*
Acrylonitrile	mg/l	Based on USEPA, 8260B	<0.001	-
Styrene	mg/l	APHA, 6200B	<0.001	-

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.

- United States Environmental Protection Agency, Revision 2, December 1996.

**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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E 277618

**Report No. : 2024-500001219 / 001-3 (Page 1 of 1)** Issued date : May 2, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality **SAMPLING DATE :** April 1, 2024  
**SAMPLING LOCATION :** Sanitary Biological **SAMPLING BY :** [REDACTED]  
 Treatment Unit, ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited (๓-197)

Parameter	Unit	Method	Result	Standard*
Temperature	°C	APHA, 2550 B	31.3	≤ 40
pH	-	APHA, 4500-H <sup>+</sup> B	8.3	5.5-9.0
TDS	mg/l	APHA, 2540 C	2,322	≤ 9,284 <sup>1/</sup>
SS	mg/l	APHA, 2540 D	10	≤ 50
COD	mg/l	APHA, 5220 C	50	≤ 120
BOD	mg/l	APHA, 5210 B	10	≤ 20
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	≤ 5

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.

<sup>1/</sup> TDS standard is varied by TDS of Khlong Chak Mark (Upstream) of March plus 5,000 mg/l.  
 (TDS of Khlong Chak Mark (Upstream) of March 2024 = 4,284 mg/l).

**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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E 280303

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**Report No. : 2024-500001219 / 001-1 (Page 1 of 2)**

**Issued date : May 2, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality

**SAMPLING DATE :** April 1, 2024

**SAMPLING LOCATION :** Equalization Tank,  
ABS/SAN Plant

**SAMPLING BY :** [REDACTED]

**LABORATORY NAME :** SGS (Thailand) Limited (๓-197)

Parameter	Unit	Method	Result
Temperature	°C	APHA, 2550 B	40.5
pH	-	APHA, 4500-H <sup>+</sup> B	7.8
TDS	mg/l	APHA, 2540 C	2,823
SS	mg/l	APHA, 2540 D	2,197
COD	mg/l	APHA, 5220 C	1,501
BOD	mg/l	APHA, 5210 B	306
Fat, Oil and Grease	mg/l	APHA, 5520 B	40

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.  
 - Because wastewater from equalization tank is not directly discharged to surface water sources, the analysis result is not compared with the effluent standard.

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E 280299

**Report No. : 2024-500001219 / 001-1 (Page 2 of 2)**

**Issued date : May 2, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate. T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality  
**SAMPLING LOCATION :** Equalization Tank,  
 ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE :** April 1, 2024  
**SAMPLING BY :** [REDACTED]

Parameter	Unit	Method	Result
Acrylonitrile	mg/l	Based on USEPA, 8260B	0.107
Styrene	mg/l	APHA, 6200B	0.167

**Remarks :**

- Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.
- United States Environmental Protection Agency, Revision 2, December 1996.
- Because wastewater from equalization tank is not directly discharged to surface water sources, the analysis result is not compared with the effluent standard.

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E 280300

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**Report No. : 2024-500001219 / 001-2 (Page 1 of 2)** Issued date : May 2, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** **Fax. :** **E-mail: :**

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality **SAMPLING DATE :** April 1, 2024  
**SAMPLING LOCATION :** Treated Wastewater Tank, **SAMPLING BY :**   
 ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited (2-197)

Parameter	Unit	Method	Result	Standard*
Temperature	°C	APHA, 2550 B	38.2	≤ 40
pH	-	APHA, 4500-H <sup>+</sup> B	7.6	5.5-9.0
TDS	mg/l	APHA, 2540 C	2,952	≤ 9,284 <sup>1/</sup>
SS	mg/l	APHA, 2540 D	5.4	≤ 50
COD	mg/l	APHA, 5220 C	69	≤ 120
BOD	mg/l	APHA, 5210 B	14	≤ 20
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	≤ 5

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.

<sup>1/</sup> TDS standard is varied by TDS of Khlong Chak Mark (Upstream) of March plus 5,000 mg/l.  
 (TDS of Khlong Chak Mark (Upstream) of March 2024 = 4,284 mg/l).

**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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E 280301

**Report No. : 2024-500001219 / 001-2 (Page 2 of 2)** Issued date : May 2, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality **SAMPLING DATE :** April 1, 2024  
**SAMPLING LOCATION :** Treated Wastewater Tank, **SAMPLING BY :** [REDACTED]  
 ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Unit	Method	Result	Standard*
Acrylonitrile	mg/l	Based on USEPA, 8260B	<0.001	-
Styrene	mg/l	APHA, 6200B	<0.001	-

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.  
 - United States Environmental Protection Agency, Revision 2, December 1996.  
**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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E 280302

**Report No. : 2024-500001524 / 001-3 (Page 1 of 1)**
**Issued date : June 7, 2024**
**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**
**CONTACT :**
**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**
**Tel. :**
**Fax. :**
**E-mail: :**

## Analysis Report

**SAMPLE DESIGNATED AS : Wastewater Quality**
**SAMPLING DATE : May 17, 2024**
**SAMPLING LOCATION : Sanitary Biological**
**SAMPLING BY :**
**Treatment Unit, ABS/SAN Plant**
**LABORATORY NAME : SGS (Thailand) Limited (๓-197)**

Parameter	Unit	Method	Result	Standard*
Temperature	°C	APHA, 2550 B	29.9	≤ 40
pH	-	APHA, 4500-H <sup>+</sup> B	7.6	5.5-9.0
TDS	mg/l	APHA, 2540 C	2,184	≤ 9,061 <sup>1/</sup>
SS	mg/l	APHA, 2540 D	4.3	≤ 50
COD	mg/l	APHA, 5220 C	36	≤ 120
BOD	mg/l	APHA, 5210 B	7	≤ 20
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	≤ 5

**Remarks : -** Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.

<sup>1/</sup> TDS standard is varied by TDS of Khlong Chak Mark (Upstream) of April plus 5,000 mg/l.  
(TDS of Khlong Chak Mark (Upstream) of April 2024 = 4,061 mg/l).

**Source : \*** Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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E 280364

SGS (Thailand) Limited

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**Report No. : 2024-500001524 / 001-1 (Page 1 of 2)**

**Issued date : June 7, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality  
**SAMPLING DATE :** May 17, 2024  
**SAMPLING LOCATION :** Equalization Tank, ABS/SAN Plant  
**SAMPLING BY :**   
**LABORATORY NAME :** SGS (Thailand) Limited (๓-197)

Parameter	Unit	Method	Result
Temperature	°C	APHA, 2550 B	31.7
pH	-	APHA, 4500-H <sup>+</sup> B	7.0
TDS	mg/l	APHA, 2540 C	1,412
SS	mg/l	APHA, 2540 D	489
COD	mg/l	APHA, 5220 C	602
BOD	mg/l	APHA, 5210 B	119
Fat, Oil and Grease	mg/l	APHA, 5520 B	12

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.  
 - Because wastewater from equalization tank is not directly discharged to surface water sources, the analysis result is not compared with the effluent standard.



SGS (THAILAND) LIMITED

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E 230360

**Report No. : 2024-500001524 / 001-1 (Page 2 of 2)**

**Issued date : June 7, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate. T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality  
**SAMPLING LOCATION :** Equalization Tank,  
 ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE :** May 17, 2024  
**SAMPLING BY :**

Parameter	Unit	Method	Result
Acrylonitrile	mg/l	Based on USEPA, 8260B	<0.001
Styrene	mg/l	APHA, 6200B	8.64

**Remarks :**

- Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.
- United States Environmental Protection Agency, Revision 2, December 1996.
- Because wastewater from equalization tank is not directly discharged to surface water sources, the analysis result is not compared with the effluent standard.

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SGS (THAILAND) LIMITED



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E 280361

**Report No. : 2024-500001524 / 001-2 (Page 1 of 2)**

**Issued date : June 7, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** **Fax. :** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality **SAMPLING DATE :** May 17, 2024

**SAMPLING LOCATION :** Treated Wastewater Tank, **SAMPLING BY :**   
 ABS/SAN Plant

**LABORATORY NAME :** SGS (Thailand) Limited (2-197)

Parameter	Unit	Method	Result	Standard*
Temperature	°C	APHA, 2550 B	33.5	≤ 40
pH	-	APHA, 4500-H <sup>+</sup> B	7.3	5.5-9.0
TDS	mg/l	APHA, 2540 C	1,715	≤ 9,061 <sup>1/</sup>
SS	mg/l	APHA, 2540 D	3.1	≤ 50
COD	mg/l	APHA, 5220 C	48	≤ 120
BOD	mg/l	APHA, 5210 B	10	≤ 20
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	≤ 5

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.

<sup>1/</sup> TDS standard is varied by TDS of Khlong Chak Mark (Upstream) of April plus 5,000 mg/l.  
 (TDS of Khlong Chak Mark (Upstream) of April 2024 = 4,061 mg/l).

**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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E 280362

**Report No. : 2024-500001524 / 001-2 (Page 2 of 2)**

**Issued date : June 7, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality  
**SAMPLING LOCATION :** Treated Wastewater Tank, ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited  
**SAMPLING DATE :** May 17, 2024  
**SAMPLING BY :** [REDACTED]

Parameter	Unit	Method	Result	Standard*
Acrylonitrile	mg/l	Based on USEPA, 8260B	<0.001	-
Styrene	mg/l	APHA, 6200B	<0.001	-

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.

- United States Environmental Protection Agency, Revision 2, December 1996.

**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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**Report No. : 2024-500001648 / 001-3 (Page 1 of 1)**
**Issued date : July 1, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality      **SAMPLING DATE :** June 12, 2024  
**SAMPLING LOCATION :** Sanitary Biological      **SAMPLING BY :** [REDACTED]  
 Treatment Unit, ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited (๓-197)

Parameter	Unit	Method	Result	Standard*
Temperature	°C	APHA, 2550 B	29.4	≤ 40
pH	-	APHA, 4500-H <sup>+</sup> B	8.4	5.5-9.0
TDS	mg/l	APHA, 2540 C	1,482	≤ 8,760 <sup>1/</sup>
SS	mg/l	APHA, 2540 D	12	≤ 50
COD	mg/l	APHA, 5220 C	43	≤ 120
BOD	mg/l	APHA, 5210 B	9	≤ 20
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	≤ 5

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.

<sup>1/</sup> TDS standard is varied by TDS of Khlong Chak Mark (Upstream) of May plus 5,000 mg/l.  
 (TDS of Khlong Chak Mark (Upstream) of May 2024 = 3,760 mg/l).

**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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**E 283254**

**Report No. : 2024-500001648 / 001-1 (Page 1 of 2)**

**Issued date : July 1, 2024**

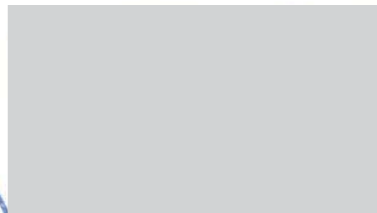
**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality **SAMPLING DATE :** June 12, 2024  
**SAMPLING LOCATION :** Equalization Tank, **SAMPLING BY :** [REDACTED]  
 ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited (๓-197)

Parameter	Unit	Method	Result
Temperature	°C	APHA, 2550 B	39.5
pH	-	APHA, 4500-H <sup>+</sup> B	7.4
TDS	mg/l	APHA, 2540 C	3,039
SS	mg/l	APHA, 2540 D	2,070
COD	mg/l	APHA, 5220 C	1,252
BOD	mg/l	APHA, 5210 B	254
Fat, Oil and Grease	mg/l	APHA, 5520 B	30

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.  
 - Because wastewater from equalization tank is not directly discharged to surface water sources, the analysis result is not compared with the effluent standard.



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E 283250

**Report No. : 2024-500001648 / 001-1 (Page 2 of 2)**

**Issued date : July 1, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality  
**SAMPLING LOCATION :** Equalization Tank, ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited  
**SAMPLING DATE :** June 12, 2024  
**SAMPLING BY :** [REDACTED]

Parameter	Unit	Method	Result
Acrylonitrile	mg/l	Based on USEPA, 8260B	4.348
Styrene	mg/l	APHA, 6200B	1.117

**Remarks :**

- Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.
- United States Environmental Protection Agency, Revision 2, December 1996.
- Because wastewater from equalization tank is not directly discharged to surface water sources, the analysis result is not compared with the effluent standard.

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E 283251

**Report No. : 2024-500001648 / 001-2 (Page 1 of 2)**

**Issued date : July 1, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT : [REDACTED]**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]**

## Analysis Report

**SAMPLE DESIGNATED AS : Wastewater Quality**

**SAMPLING DATE : June 12, 2024**

**SAMPLING LOCATION : Treated Wastewater Tank,  
ABS/SAN Plant**

**SAMPLING BY : [REDACTED]**

**LABORATORY NAME : SGS (Thailand) Limited (๓-197)**

Parameter	Unit	Method	Result	Standard*
Temperature	°C	APHA, 2550 B	33.4	≤ 40
pH	-	APHA, 4500-H <sup>+</sup> B	7.2	5.5-9.0
TDS	mg/l	APHA, 2540 C	2,724	≤ 8,760 <sup>1/</sup>
SS	mg/l	APHA, 2540 D	5.7	≤ 50
COD	mg/l	APHA, 5220 C	49	≤ 120
BOD	mg/l	APHA, 5210 B	10	≤ 20
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	≤ 5

**Remarks : -** Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.

<sup>1/</sup> TDS standard is varied by TDS of Khlong Chak Mark (Upstream) of May plus 5,000 mg/l.  
(TDS of Khlong Chak Mark (Upstream) of May 2024 = 3,760 mg/l).

**Source : \*** Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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**Report No. : 2024-500001648 / 001-2 (Page 2 of 2)**

**Issued date : July 1, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality **SAMPLING DATE :** June 12, 2024  
**SAMPLING LOCATION :** Treated Wastewater Tank, **SAMPLING BY :**   
 ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Unit	Method	Result	Standard*
Acrylonitrile	mg/l	Based on USEPA, 8260B	<0.001	-
Styrene	mg/l	APHA, 6200B	<0.001	-

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.

- United States Environmental Protection Agency, Revision 2, December 1996.

**Source :** \* Notification of Ministry of Industry B.E 2560 (2017), issued under Factory Act B.E. 2535 (1992), dated May 30, B.E. 2560 (2017), published in the Royal Government Gazette Vol.134, Part Special 153D, dated June 7, B.E. 2560 (2017).

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คุณภาพน้ำผิวดิน

**Report No. : 2024-500000557 / 001-4 (Page 1 of 1)** Issued date : February 15, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality  
 SAMPLING LOCATION : Khlong Chak Mark, ABS/SAN Plant  
 LABORATORY NAME : SGS (Thailand) Limited  
 SAMPLING DATE : January 8, 2024  
 SAMPLING BY :

Parameter	Unit	Method	Result		Standard*
			Upstream	Downstream	
Temperature	°C	APHA, 2550 B	31.4	32.4	n'
pH	-	APHA, 4500-H <sup>+</sup> B	8.4	8.1	5.0-9.0
BOD	mg/l	APHA, 5210 B	8	12	≤ 4
COD	mg/l	APHA, 5220 C	43	79	-
TDS	mg/l	APHA, 2540 C	4,980	10,350	-
SS	mg/l	APHA, 2540 D	16	12	-
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	<2	-
Acrylonitrile	mg/l	Based on USEPA, 8260B	<0.001	<0.001	-
Styrene	mg/l	APHA, 6200B	<0.001	<0.001	-

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 23<sup>rd</sup> edition, 2017.  
 - United States Environmental Protection Agency, Revision 2, December 1996.  
 - n' = naturally but changing not more than 3 °C  
**Source :** \* Notification of National Environment Board No.8, B.E.2537 (1994), issued under the Enhancement & Conservation of National Environmental Quality Act B.E.2535 (1992), dated January 20, B.E.2537 (1994), published in the Royal Government Gazette Vol.111, Part 16D, dated June 24, B.E.2537 (1994).

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**Report No. : 2024-500000778 / 001-4 (Page 1 of 1)** Issued date : February 27, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality  
 SAMPLING LOCATION : Khlong Chak Mark, ABS/SAN Plant  
 LABORATORY NAME : SGS (Thailand) Limited  
 SAMPLING DATE : February 8, 2024  
 SAMPLING BY :

Parameter	Unit	Method	Result		Standard*
			Upstream	Downstream	
Temperature	°C	APHA, 2550 B	32.4	34.0	n'
pH	-	APHA, 4500-H <sup>+</sup> B	8.2	8.2	5.0-9.0
BOD	mg/l	APHA, 5210 B	8	10	≤ 4
COD	mg/l	APHA, 5220 C	50	56	-
TDS	mg/l	APHA, 2540 C	4,622	9,320	-
SS	mg/l	APHA, 2540 D	13	19	-
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	<2	-
Acrylonitrile	mg/l	Based on USEPA, 8260B	<0.001	<0.001	-
Styrene	mg/l	Based on USEPA, 8260B	<0.001	<0.001	-

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 23<sup>rd</sup> edition, 2017.  
 - United States Environmental Protection Agency, Revision 2, December 1996.  
 - n' = naturally but changing not more than 3 °C  
**Source :** \* Notification of National Environment Board No.8, B.E.2537 (1994), issued under the Enhancement & Conservation of National Environmental Quality Act B.E.2535 (1992), dated January 20, B.E.2537 (1994), published in the Royal Government Gazette Vol.111, Part 16D, dated June 24, B.E.2537 (1994).

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E 276061

**Report No. : 2024-500000976 / 001-4 (Page 1 of 1)** Issued date : March 25, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map 1 a Phut Industrial Estate. T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Surface Water Quality  
**SAMPLING LOCATION :** Khlong Chak Mark, ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited  
**SAMPLING DATE :** March 13, 2024  
**SAMPLING BY :** [REDACTED]

Parameter	Unit	Method	Result		Standard*
			Upstream	Downstream	
Temperature	°C	APHA, 2550 B	31.8	32.4	n'
pH	-	APHA, 4500-H <sup>+</sup> B	8.2	8.1	5.0-9.0
BOD	mg/l	APHA, 5210 B	8	31	≤ 4
COD	mg/l	APHA, 5220 C	43	160	-
TDS	mg/l	APHA, 2540 C	4,284	11,100	-
SS	mg/l	APHA, 2540 D	18	22	-
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	<2	-
Acrylonitrile	mg/l	Based on USEPA, 8260B	<0.001	<0.001	-
Styrene	mg/l	Based on USEPA, 8260B	<0.001	<0.001	-

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.  
 - United States Environmental Protection Agency, Revision 2, December 1996.  
 - n' = naturally but changing not more than 3 °C

**Source :** \* Notification of National Environment Board No.8, B.E.2537 (1994), issued under the Enhancement & Conservation of National Environmental Quality Act B.E.2535 (1992), dated January 20, B.E.2537 (1994), published in the Royal Government Gazette Vol.111, Part 16D, dated June 24, B.E.2537 (1994).

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**Report No. : 2024-500001219 / 001-4 (Page 1 of 1)**

**Issued date : May 2, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** **Fax. :** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Surface Water Quality  
**SAMPLING LOCATION :** Khlong Chak Mark, ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE :** April 1, 2024

**SAMPLING BY :**

Parameter	Unit	Method	Result		Standard*
			Upstream	Downstream	
Temperature	°C	APHA, 2550 B	35.0	36.2	n'
pH	-	APHA, 4500-H <sup>+</sup> B	8.7	8.3	5.0-9.0
BOD	mg/l	APHA, 5210 B	11	15	≤ 4
COD	mg/l	APHA, 5220 C	50	75	-
TDS	mg/l	APHA, 2540 C	4,061	11,360	-
SS	mg/l	APHA, 2540 D	19	16	-
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	<2	-
Acrylonitrile	mg/l	Based on USEPA, 8260B	<0.001	<0.001	-
Styrene	mg/l	Based on USEPA, 8260B	<0.001	<0.001	-

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.  
 - United States Environmental Protection Agency, Revision 2, December 1996.  
 - n' = naturally but changing not more than 3 °C

**Source :** \* Notification of National Environment Board No.8, B.E.2537 (1994), issued under the Enhancement & Conservation of National Environmental Quality Act B.E.2535 (1992), dated January 20, B.E.2537 (1994), published in the Royal Government Gazette Vol.111, Part 16D, dated June 24, B.E.2537 (1994).

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E 280304

**Report No. : 2024-500001524 / 001-4 (Page 1 of 1)**

**Issued date : June 7, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Surface Water Quality  
**SAMPLING LOCATION :** Khlong Chak Mark, ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE :** May 17, 2024  
**SAMPLING BY :**

Parameter	Unit	Method	Result		Standard*
			Upstream	Downstream	
Temperature	°C	APHA, 2550 B	34.4	34.5	n'
pH	-	APHA, 4500-H <sup>+</sup> B	7.7	7.7	5.0-9.0
BOD	mg/l	APHA, 5210 B	10	8	≤ 4
COD	mg/l	APHA, 5220 C	54	42	-
TDS	mg/l	APHA, 2540 C	3,760	7,573	-
SS	mg/l	APHA, 2540 D	26	24	-
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	<2	-
Acrylonitrile	mg/l	Based on USEPA, 8260B	<0.001	<0.001	-
Styrene	mg/l	Based on USEPA, 8260B	<0.001	<0.001	-

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.  
 - United States Environmental Protection Agency, Revision 2, December 1996.  
 - n' = naturally but changing not more than 3 °C

**Source :** \* Notification of National Environment Board No.8, B.E.2537 (1994), issued under the Enhancement & Conservation of National Environmental Quality Act B.E.2535 (1992), dated January 20, B.E.2537 (1994), published in the Royal Government Gazette Vol.111, Part 16D, dated June 24, B.E.2537 (1994).

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E 280365

**Report No. : 2024-500001648 / 001-4 (Page 1 of 1)**

**Issued date : July 1, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Surface Water Quality  
**SAMPLING LOCATION :** Khlong Chak Mark, ABS/SAN Plant  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE :** June 12, 2024  
**SAMPLING BY :** [REDACTED]

Parameter	Unit	Method	Result		Standard*
			Upstream	Downstream	
Temperature	°C	APHA, 2550 B	33.7	34.2	n'
pH	-	APHA, 4500-H <sup>+</sup> B	8.4	8.1	5.0-9.0
BOD	mg/l	APHA, 5210 B	6	10	≤ 4
COD	mg/l	APHA, 5220 C	30	43	-
TDS	mg/l	APHA, 2540 C	4,288	9,000	-
SS	mg/l	APHA, 2540 D	24	20	-
Fat, Oil and Grease	mg/l	APHA, 5520 B	<2	<2	-
Acrylonitrile	mg/l	Based on USEPA, 8260B	<0.001	<0.001	-
Styrene	mg/l	Based on USEPA, 8260B	<0.001	<0.001	-

**Remarks :** - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF 24<sup>th</sup> edition, 2023.  
 - United States Environmental Protection Agency, Revision 2, December 1996.  
 - n' = naturally but changing not more than 3 °C

**Source :** \* Notification of National Environment Board No.8, B.E.2537 (1994), issued under the Enhancement & Conservation of National Environmental Quality Act B.E.2535 (1992), dated January 20, B.E.2537 (1994), published in the Royal Government Gazette Vol.111, Part 16D, dated June 24, B.E.2537 (1994).

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ระดับเสียงโดยทั่วไป

**Report No. : 2024-500000557 / 005 (Page 1 of 4)** Issued date : February 2, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Noise Level **MEASUREMENT DATE :** January 9-16, 2024  
**MEASUREMENT LOCATION :** Boundary of ABS/SAN Plant **MEASUREMENT BY :** [REDACTED]  
**CALIBRATION DATA :** Model CR:515, Cirrus Research plc, Serial No. 80411,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.8 dB(A), Post Cal. : 93.7 dB(A)  
**SOUND LEVEL METER NO. :** Model ST-21D, Scarlet Tech Co., Ltd., Serial No. 820703

Time	Noise Level at North Boundary of ABS/SAN [dB(A)]							Standard*
	09-10/01/2024	10-11/01/2024	11-12/01/2024	12-13/01/2024	13-14/01/2024	14-15/01/2024	15-16/01/2024	
10:00-11:00	73.4	73.9	74.2	73.6	74.6	74.1	74.3	
11:00-12:00	73.8	74.3	74.2	73.6	74.2	74.1	74.2	
12:00-13:00	74.2	74.1	74.2	73.6	74.1	73.7	73.8	
13:00-14:00	74.5	74.4	74.0	74.7	73.9	73.4	73.8	
14:00-15:00	74.6	74.3	74.2	74.9	73.4	73.4	73.3	
15:00-16:00	74.9	74.2	74.5	75.3	73.8	73.7	73.7	
16:00-17:00	74.8	74.7	74.7	74.7	73.7	73.6	74.0	
17:00-18:00	74.7	74.5	74.5	74.5	74.1	73.3	73.6	
18:00-19:00	74.7	74.7	74.5	74.4	74.4	73.3	73.0	
19:00-20:00	74.4	74.2	74.5	74.2	73.8	72.7	72.6	
20:00-21:00	74.4	74.0	74.2	74.2	73.4	72.6	73.2	
21:00-22:00	74.1	74.1	74.3	73.9	73.3	72.4	72.8	
22:00-23:00	73.8	74.2	74.3	73.8	73.3	72.2	72.6	
23:00-00:00	73.6	73.1	73.6	73.2	73.1	71.9	72.7	
00:00-01:00	72.7	72.9	73.7	73.4	73.2	72.0	72.4	
01:00-02:00	72.0	72.1	73.8	73.5	73.3	71.9	72.1	
02:00-03:00	72.5	72.2	74.2	73.6	73.2	71.5	72.5	
03:00-04:00	72.5	72.7	73.9	73.4	73.1	71.4	72.7	
04:00-05:00	72.3	72.4	73.8	72.6	72.7	71.7	72.1	
05:00-06:00	72.8	72.9	73.2	72.4	72.8	71.7	72.0	
06:00-07:00	72.1	72.7	72.8	71.9	72.6	71.6	72.4	
07:00-08:00	72.0	72.5	72.4	71.7	72.3	71.5	72.0	
08:00-09:00	73.0	73.7	73.5	73.1	72.8	72.2	72.9	
09:00-10:00	73.9	74.2	74.1	74.1	73.9	73.2	73.5	
Leq-24 hrs	73.7	73.7	74.0	73.8	73.5	72.7	73.1	≤ 70
Lmax	85.9	92.6	88.7	90.8	90.3	85.3	93.4	≤ 115
Ldn	79.4	79.5	80.2	79.7	79.6	78.4	79.0	-

**Source :** \* Notification of the National Environment Board No.15, B.E. 2540 (1997) dated April 3, B.E. 2540 (1997).



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E 275235

**Report No. : 2024-500000557 / 005 (Page 2 of 4)** Issued date : February 2, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Noise Level **MEASUREMENT DATE :** January 9-16, 2024  
**MEASUREMENT LOCATION :** Boundary of ABS/SAN Plant **MEASUREMENT BY :** [REDACTED]  
**CALIBRATION DATA :** Model CR:515, Cirrus Research plc, Serial No. 80411,  
Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.8 dB(A), Post Cal. : 93.6 dB(A)  
**SOUND LEVEL METER NO. :** Model ST-21D, Scarlet Tech Co., Ltd., Serial No. 820708

Time	Noise Level at South Boundary of ABS/SAN [dB(A)]							Standard*
	09-10/01/2024	10-11/01/2024	11-12/01/2024	12-13/01/2024	13-14/01/2024	14-15/01/2024	15-16/01/2024	
11:00-12:00	62.5	67.7	62.4	62.8	62.3	61.3	60.9	
12:00-13:00	62.3	62.4	62.1	62.6	62.4	61.9	61.5	
13:00-14:00	62.4	63.0	62.7	63.2	62.6	61.8	61.8	
14:00-15:00	62.8	64.4	65.4	62.9	62.8	62.0	62.4	
15:00-16:00	63.6	63.2	62.7	63.6	62.7	62.1	61.8	
16:00-17:00	63.8	62.7	62.8	63.0	62.8	62.4	61.6	
17:00-18:00	63.9	63.4	62.5	64.0	62.5	61.7	61.7	
18:00-19:00	63.4	62.6	62.6	63.6	62.3	61.9	61.3	
19:00-20:00	63.4	62.5	62.3	64.6	62.6	62.2	61.1	
20:00-21:00	63.5	61.9	62.1	62.6	62.2	62.0	60.5	
21:00-22:00	62.4	62.7	62.0	62.6	63.1	63.3	60.0	
22:00-23:00	62.1	62.5	61.7	62.1	62.3	63.4	60.2	
23:00-00:00	64.2	61.4	62.0	61.8	62.1	62.5	60.3	
00:00-01:00	60.7	61.1	62.7	62.2	61.6	61.8	60.5	
01:00-02:00	61.3	60.9	62.4	61.8	61.5	60.4	61.2	
02:00-03:00	60.8	61.2	61.8	61.6	61.2	61.1	60.6	
03:00-04:00	60.6	61.6	62.1	62.0	61.4	60.2	60.9	
04:00-05:00	60.9	61.9	62.4	61.5	61.1	60.1	61.1	
05:00-06:00	61.4	61.8	62.3	60.8	60.9	60.1	60.8	
06:00-07:00	61.9	62.2	62.1	61.2	61.5	61.2	61.1	
07:00-08:00	61.4	62.1	62.3	61.6	65.3	60.8	60.9	
08:00-09:00	62.5	65.6	63.4	62.8	61.4	61.7	61.8	
09:00-10:00	64.0	66.2	63.2	62.2	62.0	62.4	61.4	
10:00-11:00	64.2	64.8	63.5	62.7	61.6	60.8	61.3	
Leq-24 hrs	62.7	63.3	62.6	62.6	62.3	61.7	61.1	≤ 70
Lmax	90.8	90.1	82.5	94.5	87.8	89.8	85.7	≤ 115
Ldn	68.3	68.5	68.7	68.3	68.1	67.8	67.2	-

**Source :** \* Notification of the National Environment Board No.15, B.E. 2540 (1997) dated April 3, B.E. 2540 (1997).

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**Report No. : 2024-500000557 / 005 (Page 3 of 4) Issued date : February 2, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Noise Level **MEASUREMENT DATE :** January 9-16, 2024  
**MEASUREMENT LOCATION :** Boundary of ABS/SAN Plant **MEASUREMENT BY :** [REDACTED]  
**CALIBRATION DATA :** Model CR:515, Cirrus Research plc, Serial No. 80411,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.8 dB(A), Post Cal. : 93.8 dB(A)  
**SOUND LEVEL METER NO. :** Model ST-21D, Scarlet Tech Co., Ltd., Serial No. 820710

Time	Noise Level at East Boundary of ABS/SAN [dB(A)]							Standard*
	09-10/01/2024	10-11/01/2024	11-12/01/2024	12-13/01/2024	13-14/01/2024	14-15/01/2024	15-16/01/2024	
10:00-11:00	60.3	59.5	59.8	60.2	59.5	59.5	59.3	
11:00-12:00	60.1	61.2	59.4	60.0	58.4	58.4	59.0	
12:00-13:00	59.7	58.3	59.4	59.5	59.2	58.5	57.8	
13:00-14:00	59.4	60.8	58.9	59.6	59.0	58.6	57.4	
14:00-15:00	59.2	59.0	58.9	59.6	58.1	57.9	58.0	
15:00-16:00	60.5	60.5	59.9	59.8	58.7	58.6	59.1	
16:00-17:00	59.6	59.3	59.1	60.4	59.8	58.3	59.2	
17:00-18:00	59.3	59.2	58.9	60.0	58.0	57.5	58.3	
18:00-19:00	59.7	59.3	60.1	59.7	58.8	57.5	58.7	
19:00-20:00	60.3	59.7	59.0	59.5	58.5	57.9	58.8	
20:00-21:00	59.8	58.8	58.4	59.1	56.4	57.0	58.7	
21:00-22:00	59.2	59.9	58.2	58.9	56.4	57.9	58.1	
22:00-23:00	58.7	58.6	58.6	58.4	56.5	57.1	58.5	
23:00-00:00	57.2	57.1	58.2	56.7	57.7	57.0	59.6	
00:00-01:00	57.6	56.9	58.2	57.8	58.6	57.7	60.6	
01:00-02:00	57.8	57.5	57.9	59.2	57.6	57.8	60.1	
02:00-03:00	57.8	57.4	58.1	59.6	57.6	57.7	60.7	
03:00-04:00	57.3	58.1	59.0	59.7	59.1	57.7	60.3	
04:00-05:00	57.2	57.3	58.6	58.2	58.4	58.3	59.7	
05:00-06:00	58.0	58.8	58.1	57.1	58.5	58.7	59.2	
06:00-07:00	59.4	59.9	58.3	57.9	57.8	59.5	59.7	
07:00-08:00	57.9	58.6	57.3	59.1	59.3	59.2	59.7	
08:00-09:00	58.6	58.3	59.2	59.6	59.2	59.9	60.1	
09:00-10:00	59.0	59.5	59.9	59.4	59.8	60.0	62.0	
Leq-24 hrs	59.0	59.0	58.9	59.2	58.5	58.3	59.4	≤ 70
Lmax	80.4	88.0	86.1	82.3	84.4	83.1	83.8	≤ 115
Ldn	64.6	64.7	64.9	65.0	64.6	64.5	66.2	-

**Source :** \* Notification of the National Environment Board No.15, B.E. 2540 (1997) dated April 3, B.E. 2540 (1997).

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**Report No. : 2024-500000557 / 005 (Page 4 of 4)** Issued date : February 2, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Noise Level **MEASUREMENT DATE :** January 9-16, 2024  
**MEASUREMENT LOCATION :** Boundary of ABS/SAN Plant **MEASUREMENT BY :** [REDACTED]  
**CALIBRATION DATA :** Model CR:515, Cirrus Research plc, Serial No. 80411,  
Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.8 dB(A), Post Cal. : 93.7 dB(A)  
**SOUND LEVEL METER NO. :** Model ST-21D, Scarlet Tech Co., Ltd., Serial No. 820702

Time	Noise Level at West Boundary of ABS/SAN [dB(A)]							Standard*
	09-10/01/2024	10-11/01/2024	11-12/01/2024	12-13/01/2024	13-14/01/2024	14-15/01/2024	15-16/01/2024	
11:00-12:00	62.3	62.6	61.3	61.6	62.1	60.3	61.0	
12:00-13:00	59.7	60.5	60.3	60.2	61.8	59.9	60.6	
13:00-14:00	61.0	61.2	60.8	61.5	61.2	60.5	61.5	
14:00-15:00	63.9	60.9	61.1	60.6	60.9	60.3	60.4	
15:00-16:00	60.5	60.8	60.6	60.7	61.6	61.0	60.8	
16:00-17:00	61.4	61.8	61.1	61.2	63.2	60.4	61.8	
17:00-18:00	61.7	62.0	61.4	62.1	63.1	62.5	61.4	
18:00-19:00	62.3	61.5	61.2	61.8	61.8	61.0	61.9	
19:00-20:00	61.1	61.5	61.0	60.8	61.3	61.3	61.9	
20:00-21:00	62.3	60.8	61.0	60.9	61.9	61.0	61.2	
21:00-22:00	60.0	60.1	58.8	59.5	60.0	60.3	59.0	
22:00-23:00	61.2	61.0	60.2	60.8	59.5	58.9	60.4	
23:00-00:00	59.8	59.4	59.2	59.5	58.6	58.8	58.3	
00:00-01:00	58.1	58.9	60.4	59.5	58.3	58.2	58.1	
01:00-02:00	58.6	58.5	59.1	59.5	58.7	57.3	57.7	
02:00-03:00	59.3	58.3	59.2	59.7	58.2	57.6	58.0	
03:00-04:00	59.0	58.2	59.6	59.5	57.0	57.5	57.8	
04:00-05:00	58.6	58.8	59.7	59.3	57.2	58.2	57.8	
05:00-06:00	59.5	59.5	60.0	57.9	57.6	58.7	58.8	
06:00-07:00	62.3	62.3	62.4	61.0	61.4	61.0	61.4	
07:00-08:00	63.4	63.8	63.8	62.8	62.6	62.6	63.1	
08:00-09:00	62.6	62.8	63.2	62.3	60.4	62.4	62.3	
09:00-10:00	62.0	61.2	61.4	62.1	59.1	61.6	61.3	
10:00-11:00	61.9	61.3	61.3	72.1	60.3	61.0	62.1	
Leq-24 hrs	61.2	61.0	60.9	62.6	60.7	60.4	60.6	≤ 70
Lmax	92.4	86.7	85.9	90.9	88.0	86.6	89.1	≤ 115
Ldn	66.6	66.4	66.7	67.0	65.7	65.5	65.8	-

**Source :** \* Notification of the National Environment Board No.15, B.E. 2540 (1997) dated April 3, B.E. 2540 (1997).

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E 275238

**Report No. : 2024-500001219 / 005 (Page 1 of 4)** Issued date : May 27, 2024

**CLIENT** : INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT** :   
**ADDRESS** : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS** : Ambient Noise Level **MEASUREMENT DATE** : April 23-30, 2024  
**MEASUREMENT LOCATION** : Boundary of ABS/SAN Plant **MEASUREMENT BY** :   
**CALIBRATION DATA** : Model ST-120, TENMARS, Serial No. 211203780,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.9 dB(A), Post Cal. : 93.7 dB(A)  
**SOUND LEVEL METER NO.** : Model NL-21, RION, Serial No. 00398390

Time	Noise Level at North Boundary of ABS/SAN [dB(A)]							Standard*
	23-24/04/2024	24-25/04/2024	25-26/04/2024	26-27/04/2024	27-28/04/2024	28-29/04/2024	29-30/04/2024	
15:00-16:00	69.3	70.2	69.6	70.4	70.3	70.1	68.8	
16:00-17:00	69.7	70.1	69.7	70.6	70.6	70.6	69.9	
17:00-18:00	69.5	70.8	69.1	70.8	70.6	70.5	69.9	
18:00-19:00	69.0	69.3	68.7	70.0	70.5	70.9	69.4	
19:00-20:00	68.7	69.2	68.6	70.5	70.0	70.4	69.7	
20:00-21:00	69.4	69.7	68.9	69.9	69.7	69.4	69.5	
21:00-22:00	69.4	69.0	69.4	68.9	69.6	69.8	69.1	
22:00-23:00	69.6	69.1	69.6	69.3	69.7	71.3	69.6	
23:00-00:00	69.9	68.9	69.6	69.6	69.9	70.6	70.1	
00:00-01:00	70.3	68.9	68.8	70.0	70.1	70.4	70.1	
01:00-02:00	69.8	69.0	69.0	70.5	70.1	70.7	69.9	
02:00-03:00	70.1	69.0	69.0	69.5	70.0	70.3	69.7	
03:00-04:00	69.7	69.0	68.4	69.1	70.1	70.4	69.7	
04:00-05:00	69.6	69.0	68.8	69.1	70.5	70.4	69.9	
05:00-06:00	69.7	69.3	68.8	69.0	70.7	70.1	69.3	
06:00-07:00	69.5	69.5	68.7	68.9	69.5	69.7	69.0	
07:00-08:00	69.2	69.8	69.0	69.1	70.0	69.0	69.0	
08:00-09:00	69.3	70.0	69.8	69.7	70.3	69.3	69.5	
09:00-10:00	69.5	70.3	69.6	70.1	70.1	70.0	69.4	
10:00-11:00	69.7	70.4	69.5	70.4	69.7	70.2	69.9	
11:00-12:00	69.6	68.9	70.7	69.8	69.6	69.1	69.6	
12:00-13:00	69.4	69.4	69.4	69.6	69.2	68.6	69.4	
13:00-14:00	69.7	69.9	69.3	69.5	69.8	69.4	69.7	
14:00-15:00	70.0	69.7	69.2	69.8	69.8	69.2	69.8	
Leq-24 hrs	69.6	69.5	69.2	69.8	70.0	70.1	69.6	≤ 70
Lmax	94.7	91.0	91.6	94.1	87.7	88.0	92.2	≤ 115
Ldn	76.1	75.6	75.5	76.0	76.5	76.8	76.1	-

**Source :** \* Notification of the National Environment Board No.15, B.E. 2540 (1997) dated April 3, B.E. 2540 (1997).

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**Report No. : 2024-500001219 / 005 (Page 2 of 4)**

**Issued date : May 27, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS :**

4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Tel. :

Fax. :

E-mail: :

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Noise Level**

**MEASUREMENT DATE : April 23-30, 2024**

**MEASUREMENT LOCATION : Boundary of ABS/SAN Plant**

**MEASUREMENT BY :**

**CALIBRATION DATA :**

Model ST-120, TENMARS, Serial No. 211203780,

Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.9 dB(A), Post Cal. : 93.7 dB(A)

**SOUND LEVEL METER NO. : Model NL-21, RION, Serial No. 00398392**

Time	Noise Level at South Boundary of ABS/SAN [dB(A)]							Standard*
	23-24/04/2024	24-25/04/2024	25-26/04/2024	26-27/04/2024	27-28/04/2024	28-29/04/2024	29-30/04/2024	
16:00-17:00	65.2	65.5	65.6	65.9	65.3	65.2	65.5	
17:00-18:00	65.4	65.8	65.7	65.7	65.8	65.4	65.4	
18:00-19:00	65.5	66.3	65.6	65.6	66.0	65.4	65.6	
19:00-20:00	65.2	65.6	65.1	65.4	65.7	65.5	65.8	
20:00-21:00	65.0	66.0	65.1	65.2	65.9	65.5	65.5	
21:00-22:00	65.1	71.5	65.5	65.4	66.8	65.5	65.6	
22:00-23:00	65.4	72.7	65.7	65.7	66.7	65.4	65.7	
23:00-00:00	65.6	72.5	65.8	65.2	65.8	65.4	65.4	
00:00-01:00	65.3	72.4	65.8	65.7	65.1	65.5	65.4	
01:00-02:00	65.7	72.5	65.3	66.5	64.7	65.4	65.8	
02:00-03:00	65.6	72.3	65.5	68.7	65.2	65.2	68.3	
03:00-04:00	65.7	72.0	65.1	68.3	65.3	65.5	68.4	
04:00-05:00	65.4	65.7	65.2	65.6	65.2	65.6	67.3	
05:00-06:00	65.3	65.5	67.0	65.3	65.3	65.8	65.9	
06:00-07:00	66.1	66.1	66.5	65.4	65.7	66.1	66.3	
07:00-08:00	65.8	66.5	66.0	65.6	65.1	65.9	66.0	
08:00-09:00	66.4	65.0	66.9	66.0	65.4	66.4	66.2	
09:00-10:00	67.2	64.5	66.7	66.0	65.6	66.7	66.2	
10:00-11:00	68.6	65.3	66.0	65.9	65.2	65.9	65.7	
11:00-12:00	70.6	65.4	65.8	66.0	65.2	65.3	65.3	
12:00-13:00	65.7	65.2	65.6	65.4	65.2	65.0	65.5	
13:00-14:00	65.8	66.1	66.0	65.5	65.4	65.8	65.6	
14:00-15:00	64.9	67.6	65.7	65.8	65.8	65.7	65.4	
15:00-16:00	65.8	66.3	66.8	65.4	68.1	65.5	65.4	
Leq-24 hrs	66.2	68.8	65.9	66.0	65.7	65.6	66.1	≤ 70
Lmax	93.1	91.5	88.8	85.3	93.0	89.7	88.1	≤ 115
Ldn	72.1	77.1	72.2	72.8	71.9	72.0	72.9	-

**Source : \*** Notification of the National Environment Board No.15, B.E. 2540 (1997) dated April 3, B.E. 2540 (1997).

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**Report No. : 2024-500001219 / 005 (Page 3 of 4)** Issued date : May 27, 2024

**CLIENT** : INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT** :   
**ADDRESS** : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS** : Ambient Noise Level **MEASUREMENT DATE** : April 23-30, 2024  
**MEASUREMENT LOCATION** : Boundary of ABS/SAN Plant **MEASUREMENT BY** :   
**CALIBRATION DATA** : Model ST-120, TENMARS, Serial No. 211203780,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.9 dB(A), Post Cal. : 93.7 dB(A)  
**SOUND LEVEL METER NO.** : Model NL-21, RION, Serial No. 00243242

Time	Noise Level at East Boundary of ABS/SAN [dB(A)]							Standard*
	23-24/04/2024	24-25/04/2024	25-26/04/2024	26-27/04/2024	27-28/04/2024	28-29/04/2024	29-30/04/2024	
15:00-16:00	56.3	56.9	57.5	57.7	56.9	57.5	57.8	
16:00-17:00	56.5	56.7	56.8	57.3	56.5	56.9	57.0	
17:00-18:00	55.9	57.3	57.6	56.7	57.2	55.4	57.3	
18:00-19:00	58.1	57.3	59.4	56.3	57.1	55.8	57.1	
19:00-20:00	54.4	56.6	58.5	57.1	56.3	56.0	57.2	
20:00-21:00	55.0	57.0	57.0	56.2	56.7	56.7	56.2	
21:00-22:00	54.6	56.2	55.3	55.5	58.5	57.6	55.4	
22:00-23:00	55.9	56.4	55.7	56.0	57.3	57.3	55.7	
23:00-00:00	54.8	55.8	55.4	56.3	57.3	57.9	56.2	
00:00-01:00	56.7	57.0	55.9	56.6	57.8	57.1	56.9	
01:00-02:00	58.1	57.2	58.6	56.3	57.9	56.7	58.7	
02:00-03:00	57.6	57.0	59.1	57.4	57.0	57.4	58.6	
03:00-04:00	57.9	56.8	59.1	57.0	56.7	58.0	59.2	
04:00-05:00	57.2	56.5	58.7	57.3	57.2	56.9	58.8	
05:00-06:00	57.1	56.7	57.0	58.2	57.0	56.8	57.7	
06:00-07:00	57.1	56.2	57.3	58.3	57.2	58.0	58.1	
07:00-08:00	57.4	56.6	56.6	57.3	57.7	57.3	58.1	
08:00-09:00	57.2	58.0	58.2	58.3	57.1	58.1	57.9	
09:00-10:00	59.1	57.4	58.4	58.0	58.6	59.2	58.2	
10:00-11:00	57.4	57.2	57.9	58.1	58.1	58.8	57.3	
11:00-12:00	60.7	56.3	57.6	58.0	57.3	59.8	56.6	
12:00-13:00	57.6	58.5	57.6	57.7	57.1	57.6	56.4	
13:00-14:00	57.4	57.6	58.2	57.0	57.5	57.9	57.3	
14:00-15:00	57.9	57.1	58.1	56.5	56.8	57.7	56.8	
Leq-24 hrs	57.2	57.0	57.7	57.2	57.3	57.5	57.5	≤ 70
Lmax	86.3	79.5	83.6	84.2	84.8	81.3	82.1	≤ 115
Ldn	63.5	63.1	64.1	63.5	63.7	63.8	64.2	-

**Source :** \* Notification of the National Environment Board No.15, B.E. 2540 (1997) dated April 3, B.E. 2540 (1997).

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**Report No. : 2024-500001219 / 005 (Page 4 of 4)** Issued date : May 27, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel.** [REDACTED] **Fax.** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Noise Level **MEASUREMENT DATE :** April 23-30, 2024  
**MEASUREMENT LOCATION :** Boundary of ABS/SAN Plant **MEASUREMENT BY :** [REDACTED]  
**CALIBRATION DATA :** Model ST-120, TENMARS, Serial No. 211203780,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.9 dB(A), Post Cal. : 93.7 dB(A)  
**SOUND LEVEL METER NO. :** Model ST-21D, Scarlet Tech Co., Ltd., Serial No. 820704

Time	Noise Level at West Boundary of ABS/SAN [dB(A)]							Standard*
	23-24/04/2024	24-25/04/2024	25-26/04/2024	26-27/04/2024	27-28/04/2024	28-29/04/2024	29-30/04/2024	
15:00-16:00	60.8	62.2	67.9	63.1	61.7	61.5	61.2	
16:00-17:00	61.9	62.1	61.6	61.7	63.2	63.5	62.1	
17:00-18:00	62.9	62.6	62.1	63.8	63.4	62.5	62.9	
18:00-19:00	61.4	63.5	63.9	62.6	62.7	62.4	61.7	
19:00-20:00	59.2	62.8	63.1	60.6	61.3	60.3	60.3	
20:00-21:00	58.5	61.2	61.4	58.9	61.3	60.1	59.4	
21:00-22:00	59.8	59.4	61.2	59.4	60.8	60.2	61.1	
22:00-23:00	60.7	58.7	60.9	60.6	60.7	60.4	61.3	
23:00-00:00	60.4	60.9	60.7	60.2	60.7	60.5	60.7	
00:00-01:00	60.8	59.9	60.9	60.6	60.5	60.8	61.0	
01:00-02:00	60.7	60.7	60.2	60.7	60.7	60.5	61.0	
02:00-03:00	60.9	60.6	60.5	61.0	60.8	60.1	60.9	
03:00-04:00	61.4	60.8	60.8	59.9	60.4	60.0	61.0	
04:00-05:00	62.7	60.0	60.1	60.5	60.2	60.3	61.4	
05:00-06:00	62.2	60.4	60.5	61.5	61.3	63.0	62.5	
06:00-07:00	59.3	60.7	60.5	63.5	63.3	64.6	65.1	
07:00-08:00	58.5	63.0	63.3	62.9	62.5	64.3	64.0	
08:00-09:00	59.1	63.3	62.1	62.6	62.0	62.5	63.2	
09:00-10:00	60.7	62.5	61.7	63.8	63.6	62.2	61.4	
10:00-11:00	60.0	63.8	64.1	63.1	62.7	61.4	62.1	
11:00-12:00	60.8	63.4	62.9	62.1	63.1	61.6	62.1	
12:00-13:00	60.6	62.4	62.5	61.4	61.0	62.0	61.1	
13:00-14:00	61.1	61.5	62.6	72.2	61.9	61.3	63.5	
14:00-15:00	62.6	65.8	62.0	70.6	61.9	62.2	63.0	
Leq-24 hrs	60.9	62.1	62.4	64.1	61.9	61.8	62.0	≤ 70
Lmax	84.4	90.4	90.5	90.6	89.8	90.8	89.3	≤ 115
Ldn	67.5	67.2	67.5	68.4	67.7	67.9	68.3	-

**Source :** \* Notification of the National Environment Board No.15, B.E. 2540 (1997) dated April 3, B.E. 2540 (1997).

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ระดับเสียงในพื้นที่ทำงาน

**Report No. : 2024-500000557 / 004-2 (Page 1 of 5)** Issued date : February 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level MEASUREMENT DATE : January 9, 2024  
 MEASUREMENT LOCATION : ABS/SAN Plant MEASURED BY :   
 CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 80411,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.8 dB(A), Post Cal. : 94.0 dB(A)  
 SOUND LEVEL METER NO. : Model NA-28, RION, Serial No. 00570428

Period	Noise Level at Polymerization SAN (DN) [dB(A)]	Standard <sup>1/</sup>
09:00-10:00	90.3	
10:00-11:00	88.7	
11:00-12:00	87.2	
12:00-13:00	87.5	
13:00-14:00	87.4	
14:00-15:00	87.5	
15:00-16:00	87.4	
16:00-17:00	87.5	
17:00-18:00	87.4	
18:00-19:00	87.9	
19:00-20:00	88.6	
20:00-21:00	88.9	
<b>Leq-12 hrs</b>	<b>88.1</b>	<b>≤ 87</b>
<b>Lmax</b>	<b>91.0</b>	<b>≤ 140</b>

Source : <sup>1/</sup> Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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**Report No. : 2024-500000557 / 004-2 (Page 2 of 5)** Issued date : February 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level MEASUREMENT DATE : January 9, 2024  
 MEASUREMENT LOCATION : ABS/SAN Plant MEASURED BY :   
 CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 80411,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.8 dB(A), Post Cal. : 94.1 dB(A)  
 SOUND LEVEL METER NO. : Model NA-28, RION, Serial No. 00570433

Period	Noise Level at Polymerization SAN (CN) [dB(A)]	Standard <sup>1/</sup>
09:00-10:00	81.7	
10:00-11:00	81.6	
11:00-12:00	86.4	
12:00-13:00	86.8	
13:00-14:00	85.1	
14:00-15:00	81.7	
15:00-16:00	82.1	
16:00-17:00	82.1	
17:00-18:00	82.1	
18:00-19:00	82.1	
19:00-20:00	81.7	
20:00-21:00	81.9	
Leq-12 hrs	83.4	≤ 87
Lmax	88.0	≤ 140

Source : <sup>1/</sup> Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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**Report No. : 2024-500000557 / 004-2 (Page 3 of 5)** Issued date : February 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level MEASUREMENT DATE : January 9, 2024  
 MEASUREMENT LOCATION : ABS/SAN Plant MEASURED BY :   
 CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 80411,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.8 dB(A), Post Cal. : 93.7 dB(A)  
 SOUND LEVEL METER NO. : Model NA-28, RION, Serial No. 00570424

Period	Noise Level at Polymerization Powder (6MG) [dB(A)]	Standard <sup>1/</sup>
09:00-10:00	80.4	
10:00-11:00	80.2	
11:00-12:00	79.8	
12:00-13:00	79.0	
13:00-14:00	80.8	
14:00-15:00	79.3	
15:00-16:00	81.2	
16:00-17:00	79.6	
17:00-18:00	78.9	
18:00-19:00	79.2	
19:00-20:00	78.4	
20:00-21:00	79.5	
<b>Leq-12 hrs</b>	<b>79.8</b>	<b>≤ 87</b>
<b>Lmax</b>	<b>83.9</b>	<b>≤ 140</b>

Source : <sup>1/</sup> Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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**Report No. : 2024-500000557 / 004-2 (Page 4 of 5)** Issued date : February 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level MEASUREMENT DATE : January 10, 2024  
 MEASUREMENT LOCATION : ABS/SAN Plant MEASURED BY :   
 CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 80411,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.8 dB(A), Post Cal. : 93.9 dB(A)  
 SOUND LEVEL METER NO. : Model NA-28, RION, Serial No. 00570428

Period	Noise Level at Compounding (BBR) [dB(A)]	Standard <sup>1/</sup>
09:00-10:00	83.7	
10:00-11:00	84.9	
11:00-12:00	82.9	
12:00-13:00	82.7	
13:00-14:00	82.7	
14:00-15:00	81.3	
15:00-16:00	79.2	
16:00-17:00	81.9	
17:00-18:00	84.2	
18:00-19:00	84.0	
19:00-20:00	82.5	
20:00-21:00	81.6	
<b>Leq-12 hrs</b>	<b>82.9</b>	<b>≤ 87</b>
<b>Lmax</b>	<b>86.6</b>	<b>≤ 140</b>

Source : <sup>1/</sup> Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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E 275227

**Report No. : 2024-500000557 / 004-2 (Page 5 of 5)** Issued date : February 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level MEASUREMENT DATE : January 10, 2024  
 MEASUREMENT LOCATION : ABS/SAN Plant MEASURED BY :   
 CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 80411,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.8 dB(A), Post Cal. : 94.2 dB(A)  
 SOUND LEVEL METER NO. : Model NA-28, RION, Serial No. 00570433

Period	Noise Level at Utility [dB(A)]	Standard <sup>1/</sup>
10:00-11:00	86.5	
11:00-12:00	86.5	
12:00-13:00	86.3	
13:00-14:00	86.2	
14:00-15:00	86.2	
15:00-16:00	86.2	
16:00-17:00	86.2	
17:00-18:00	86.1	
18:00-19:00	86.0	
19:00-20:00	86.1	
20:00-21:00	86.3	
21:00-22:00	86.3	
<b>Leq-12 hrs</b>	<b>86.3</b>	<b>≤ 87</b>
<b>Lmax</b>	<b>86.9</b>	<b>≤ 140</b>

Source : <sup>1/</sup> Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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E 275228

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**Report No. : 2024-500000557 / 004-4 (page 1 of 5)** Issued date : February 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Octave Band MEASUREMENT DATE : January 9, 2024  
 MEASUREMENT LOCATION : ABS/SAN Plant MEASURED BY :   
 CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 80411,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.8 dB(A), Post Cal. : 94.0 dB(A)  
 SOUND LEVEL METER NO. : Model NA-28, RION, Serial No. 00570428

Time	Octave Bands Frequency (Hz)											
	Average	16	31.5	63	125	250	500	1,000	2,000	4,000	8,000	16,000
	Sound Pressure Level at Polymerization SAN (DN) [dB(A)]*											
1 <sup>st</sup> hour	90.3	23.2	41.6	53.3	62.1	77.0	73.6	87.9	82.8	82.0	73.0	62.5
2 <sup>nd</sup> hour	88.7	23.4	41.7	53.1	62.6	77.4	72.7	85.6	81.6	81.5	71.9	61.3
3 <sup>rd</sup> hour	87.2	24.0	42.1	53.0	63.0	78.8	71.7	79.5	82.5	81.6	72.9	62.3
4 <sup>th</sup> hour	87.5	24.4	41.8	52.9	64.2	81.3	71.8	78.2	82.8	81.2	73.0	62.3
5 <sup>th</sup> hour	87.4	24.1	41.5	53.0	64.3	81.4	71.7	78.1	82.4	81.2	73.0	62.5
6 <sup>th</sup> hour	87.5	24.2	41.8	53.2	64.9	81.8	72.2	78.0	82.5	81.0	72.8	62.3
7 <sup>th</sup> hour	87.4	24.2	42.1	53.4	65.7	81.7	72.0	77.7	82.4	81.1	73.1	62.6
8 <sup>th</sup> hour	87.5	24.2	41.8	53.4	65.0	81.4	72.3	79.3	81.8	81.7	72.9	62.4
9 <sup>th</sup> hour	87.4	24.3	41.8	53.2	64.9	81.4	71.9	78.9	81.8	81.3	73.1	62.7
10 <sup>th</sup> hour	87.9	24.3	42.0	53.4	64.6	80.4	72.5	82.6	81.2	81.6	73.1	62.8
11 <sup>th</sup> hour	88.6	24.6	42.2	53.6	64.1	79.3	73.5	84.8	82.1	81.2	73.1	62.6
12 <sup>th</sup> hour	88.9	24.7	42.3	53.7	63.7	79.2	73.8	84.9	83.3	81.0	73.3	62.9
Leq-12 hrs	88.1	24.2	41.9	53.3	64.2	80.4	72.5	82.8	82.3	81.4	72.9	62.4
Standard <sup>1/</sup>	≤ 87	-	-	-	-	-	-	-	-	-	-	-

Remark : \* Measuring Leq 1 hour by Octave-band meter.

Source : <sup>1/</sup> Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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E 275230

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**Report No. : 2024-500000557 / 004-4 (page 2 of 5)** Issued date : February 2, 2024

**CLIENT :** INFOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Octave Band **MEASUREMENT DATE :** January 9, 2024  
**MEASUREMENT LOCATION :** ABS/SAN Plant **MEASURED BY :** [REDACTED]  
**CALIBRATION DATA :** Model CR:515, Cirrus Research plc, Serial No. 80411,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.8 dB(A), Post Cal. : 94.1 dB(A)  
**SOUND LEVEL METER NO. :** Model NA-28, RION, Serial No. 00570433

Time	Octave Bands Frequency (Hz)											
	Average	16	31.5	63	125	250	500	1,000	2,000	4,000	8,000	16,000
	Sound Pressure Level at Polymerization SAN (CN) [dB(A)]*											
1 <sup>st</sup> hour	81.7	22.2	39.3	52.5	59.6	67.9	73.4	75.3	75.2	74.9	72.5	63.2
2 <sup>nd</sup> hour	81.6	22.4	39.5	52.8	60.1	69.0	73.4	75.4	75.2	74.6	71.8	62.6
3 <sup>rd</sup> hour	86.4	23.7	40.2	53.2	61.0	69.7	74.1	75.9	80.6	82.3	78.6	65.7
4 <sup>th</sup> hour	86.8	24.4	40.5	53.7	61.2	70.4	74.4	76.1	81.1	82.9	78.9	65.2
5 <sup>th</sup> hour	85.1	23.2	40.0	53.3	61.0	70.3	74.3	76.4	79.5	80.1	76.4	64.5
6 <sup>th</sup> hour	81.7	23.7	39.9	52.7	61.1	69.9	73.7	75.1	75.0	74.9	72.3	63.4
7 <sup>th</sup> hour	82.1	25.2	41.3	53.3	62.5	70.5	74.4	75.5	75.5	74.9	72.1	62.9
8 <sup>th</sup> hour	82.1	23.5	39.9	53.2	60.8	69.3	74.0	75.6	76.0	75.1	72.4	63.1
9 <sup>th</sup> hour	82.1	23.4	41.0	53.2	60.8	69.4	73.8	75.7	75.8	75.0	72.3	63.0
10 <sup>th</sup> hour	82.1	22.4	40.1	53.3	61.5	69.4	74.1	75.9	75.7	75.1	72.3	62.9
11 <sup>th</sup> hour	81.7	23.0	40.3	53.2	61.1	68.9	73.9	75.3	75.0	74.7	72.2	63.6
12 <sup>th</sup> hour	81.9	23.5	40.4	53.3	61.0	68.8	74.1	75.4	75.2	75.0	72.3	63.7
Leq-12 hrs	83.4	23.5	40.2	53.1	61.0	69.5	74.0	75.6	77.3	77.9	74.6	63.8
Standard <sup>1/</sup>	≤ 87	-	-	-	-	-	-	-	-	-	-	-

**Remark :** \* Measuring Leq 1 hour by Octave-band meter.

**Source :** <sup>1/</sup> Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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E 275231

**Report No. : 2024-500000557 / 004-4 (page 3 of 5)** Issued date : February 2, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail :** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Octave Band **MEASUREMENT DATE :** January 9, 2024  
**MEASUREMENT LOCATION :** ABS/SAN Plant **MEASURED BY :** [REDACTED]  
**CALIBRATION DATA :** Model CR:515, Cirrus Research plc, Serial No. 80411,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.8 dB(A), Post Cal. : 93.7 dB(A)  
**SOUND LEVEL METER NO. :** Model NA-28, RION, Serial No. 00570424

Time	Octave Bands Frequency (Hz)											
	Average	16	31.5	63	125	250	500	1,000	2,000	4,000	8,000	16,000
	Sound Pressure Level at Polymerization Powder (6MG) [dB(A)]*											
1 <sup>st</sup> hour	80.4	23.9	38.7	50.9	59.8	73.5	72.2	73.7	73.6	71.8	68.5	54.3
2 <sup>nd</sup> hour	80.2	24.6	38.8	51.3	59.9	73.5	71.4	73.3	73.2	72.1	68.7	54.5
3 <sup>rd</sup> hour	79.8	25.5	39.9	51.9	60.4	71.2	70.6	72.2	72.7	73.6	70.5	60.2
4 <sup>th</sup> hour	79.0	25.8	40.3	52.5	60.8	70.6	70.5	71.7	72.2	72.4	67.9	50.7
5 <sup>th</sup> hour	80.8	25.2	39.1	52.0	60.9	69.5	71.7	73.0	73.8	75.0	72.7	62.2
6 <sup>th</sup> hour	79.3	24.5	39.1	50.9	60.8	69.7	71.0	72.4	72.0	72.3	70.3	61.0
7 <sup>th</sup> hour	81.2	24.9	45.1	55.2	64.6	71.9	75.0	75.5	73.7	71.7	68.0	58.3
8 <sup>th</sup> hour	79.6	24.3	39.2	51.2	60.9	71.6	71.4	73.6	73.6	70.8	64.7	52.7
9 <sup>th</sup> hour	78.9	25.1	40.4	51.5	60.6	70.4	71.4	73.3	72.9	69.4	64.0	52.1
10 <sup>th</sup> hour	79.2	23.5	39.1	51.1	60.4	69.4	71.0	73.3	73.0	71.3	66.8	52.5
11 <sup>th</sup> hour	78.4	24.0	39.5	51.0	60.2	69.7	70.3	71.8	71.2	71.1	67.9	53.3
12 <sup>th</sup> hour	79.5	24.7	40.1	51.3	60.2	69.5	71.4	72.7	72.5	72.6	69.8	60.0
Leq-12 hrs	79.8	24.7	40.4	51.9	61.0	71.1	71.7	73.2	72.9	72.2	68.9	57.7
Standard <sup>1/</sup>	≤ 87	-	-	-	-	-	-	-	-	-	-	-

**Remark :** \* Measuring Leq 1 hour by Octave-band meter.  
**Source :** <sup>1/</sup> Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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E 275232

**Report No. : 2024-500000557 / 004-4 (page 4 of 5)** Issued date : February 2, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Octave Band  
**MEASUREMENT LOCATION :** ABS/SAN Plant  
**CALIBRATION DATA :** Model CR:515, Cirrus Research plc, Serial No. 80411,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.8 dB(A), Post Cal. : 93.9 dB(A)  
**SOUND LEVEL METER NO. :** Model NA-28, RION, Serial No. 00570428

**MEASUREMENT DATE :** January 10, 2024

**MEASURED BY :** [REDACTED]

Time	Octave Bands Frequency (Hz)											
	Average	16	31.5	63	125	250	500	1,000	2,000	4,000	8,000	16,000
	Sound Pressure Level at Compounding (BBR) [dB(A)]*											
1 <sup>st</sup> hour	83.7	39.7	41.2	52.0	60.9	69.9	75.8	76.2	77.8	77.2	74.5	64.2
2 <sup>nd</sup> hour	84.9	40.1	42.4	52.1	61.2	69.6	76.1	78.2	79.6	78.0	75.1	64.3
3 <sup>rd</sup> hour	82.9	40.9	41.3	51.8	60.5	69.2	75.1	74.9	76.7	76.7	74.1	63.7
4 <sup>th</sup> hour	82.7	41.6	41.5	51.8	60.5	68.6	74.9	74.6	76.5	76.5	73.9	63.6
5 <sup>th</sup> hour	82.7	41.5	41.8	51.8	60.6	68.8	75.0	74.8	76.6	76.4	73.9	63.6
6 <sup>th</sup> hour	81.3	41.1	41.4	50.2	59.2	67.0	73.1	73.2	76.0	74.9	71.8	61.4
7 <sup>th</sup> hour	79.2	40.0	41.5	48.4	57.8	65.5	71.7	73.4	73.8	71.3	66.2	53.2
8 <sup>th</sup> hour	81.9	37.1	40.7	49.7	59.6	67.1	73.9	75.3	76.8	74.7	70.7	58.9
9 <sup>th</sup> hour	84.2	36.5	41.6	52.0	61.4	69.7	76.2	77.0	78.4	77.8	74.7	64.1
10 <sup>th</sup> hour	84.0	35.8	40.4	52.0	61.1	69.7	76.0	76.9	78.2	77.4	74.4	63.9
11 <sup>th</sup> hour	82.5	36.4	39.5	48.8	58.7	66.5	73.5	75.8	77.9	76.2	69.9	57.3
12 <sup>th</sup> hour	81.6	36.1	39.2	48.4	58.5	66.6	72.6	75.0	76.9	75.3	68.6	56.0
Leq-12 hrs	82.9	39.4	41.1	51.0	60.2	68.4	74.7	75.7	77.3	76.3	73.0	62.3
Standard <sup>1/</sup>	≤ 87	-	-	-	-	-	-	-	-	-	-	-

**Remark :** \* Measuring Leq 1 hour by Octave-band meter.

**Source :** <sup>1/</sup> Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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E 275233

**Report No. : 2024-500000557 / 004-4 (page 5 of 5)** Issued date : February 2, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :  
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Octave Band MEASUREMENT DATE : January 10, 2024  
 MEASUREMENT LOCATION : ABS/SAN Plant MEASURED BY :  
 CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 80411,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.8 dB(A), Post Cal. : 94.2 dB(A)  
 SOUND LEVEL METER NO. : Model NA-28, RION, Serial No. 00570433

Time	Octave Bands Frequency (Hz)											
	Average	16	31.5	63	125	250	500	1,000	2,000	4,000	8,000	16,000
	Sound Pressure Level at Utility [dB(A)]*											
1 <sup>st</sup> hour	86.5	20.3	37.6	53.7	62.2	69.6	76.2	79.5	82.4	79.9	74.9	57.8
2 <sup>nd</sup> hour	86.5	20.3	37.8	53.9	62.1	69.8	76.5	79.7	82.3	79.9	74.8	57.7
3 <sup>rd</sup> hour	86.3	20.2	37.6	54.0	62.2	70.0	76.7	79.2	82.1	79.7	74.7	57.4
4 <sup>th</sup> hour	86.2	20.2	37.1	54.2	62.0	69.7	77.0	79.2	81.7	79.7	74.6	57.4
5 <sup>th</sup> hour	86.2	20.5	37.6	54.2	62.3	69.8	76.8	79.1	81.8	79.6	74.6	57.3
6 <sup>th</sup> hour	86.2	20.5	37.4	54.5	62.3	69.9	76.8	79.1	81.8	79.9	74.6	57.4
7 <sup>th</sup> hour	86.2	20.5	37.3	54.2	62.4	69.8	76.9	79.2	81.7	79.8	74.6	57.4
8 <sup>th</sup> hour	86.1	20.4	37.5	54.2	62.4	69.9	76.5	79.0	81.6	79.8	74.6	57.4
9 <sup>th</sup> hour	86.0	20.3	37.0	54.3	62.1	69.4	76.3	78.6	81.7	79.8	74.7	57.5
10 <sup>th</sup> hour	86.1	20.3	37.2	53.8	62.2	69.1	75.9	78.8	82.0	79.8	74.8	57.5
11 <sup>th</sup> hour	86.3	20.2	37.1	53.7	62.2	69.8	76.1	79.2	82.1	79.9	74.9	57.7
12 <sup>th</sup> hour	86.3	20.4	37.1	53.7	62.2	69.9	76.1	79.2	82.2	80.0	74.9	57.7
Leq-12 hrs	86.3	20.3	37.4	54.0	62.2	69.7	76.5	79.2	82.0	79.8	74.7	57.5
Standard <sup>1/</sup>	≤ 87	-	-	-	-	-	-	-	-	-	-	-

Remark : \* Measuring Leq 1 hour by Octave-band meter.  
 Source : <sup>1/</sup> Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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E 275234

**Report No. : 2024-500000557/ 004-3 (Page 1 of 1)** Issued date : February 2, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Noise Dose **MEASUREMENT DATE :** January 9-10, 2024  
**MEASUREMENT LOCATION :** ABS/SAN Plant **MEASURED BY :** [REDACTED]  
**CALIBRATION DATA :** Calibrator Model CEL-120/2, CASELLA Serial No. 3864875  
 Pre Cal. : 114 dB(A), Post Cal. : 114 dB(A)  
**SOUND LEVEL METER NO. :** Model dBadge2, CASELLA Serial No. 1167278, Serial No. 2311490, Serial No. 2311550, Serial No. 1167163 and Serial No. 1167292

Monitoring Station	Shift	Name	Noise Dose (%)	TWA <sup>(8)</sup> [dB(A)]	TWA <sup>(8)</sup> [PPE] <sup>1/</sup> [dB(A)]	TWA <sup>(12)</sup> [dB(A)]	TWA <sup>(12)</sup> [PPE] <sup>1/</sup> [dB(A)]
Polymerization SAN (DN) (January 9, 2024)	Day	Mr. Soottipat	311.9	89.9	75.2	88.2	73.4
	Night	Mr. Thanawat	226.6	88.6	73.8	86.8	72.0
Polymerization SAN (CN) (January 9, 2024)	Day	Mr. Phonlapat	71.6	83.5	68.8	81.8	67.0
	Night	Mr. Amnaj	53.6	82.3	67.5	80.5	65.8
Polymerization Powder (6MG) (January 9, 2024)	Day	Mr. Thaworn	324.6	90.1	75.4	88.4	73.6
	Night	Mr. Piyaphong	64.7	83.1	68.4	81.3	66.6
Compounding (BBR) (January 10, 2024)	Day	Mr. Sakom	319.3	90.0	75.3	88.3	73.5
	Night	Mr. Itsara	113.4	85.5	70.8	83.8	69.0
Utility (January 10, 2024)	Day	Mr. Wanchai	46.0	81.6	66.9	79.9	65.1
	Night	Mr. Kawiwat	69.4	83.4	68.7	81.7	66.9
<b>Standards<sup>2/, 3/</sup></b>				<b>≤ 85</b>		<b>≤ 83</b>	

**Remarks :**

- Working hours per day = 12 hours
- Setting values for noise dosimeter are as the followings:
  - Range = 70-140 dB
  - Criterion level = 85 dB
  - Exchange rate = 3 decibels
  - Threshold level = 80 dB
  - Response time = Slow
  - Frequency weighting = A
- TWA<sup>(8)</sup> : Time Weighted Average for 8 working hours per day.
- TWA<sup>(12)</sup> : Time Weighted Average for 12 working hours per day.
- TWA [PPE] : The sound level calculation when wearing personal protective equipment (PPE) ; NRR of Ear Muffs =29

**Sources :**

- <sup>1/</sup> Notification of the Department of Labour Protection and Welfare, Subject 'The sound level calculation when wearing personal protective equipment' dated February 14, B.E. 2561 (2018).
- <sup>2/</sup> Notification of the Department of Labour Protection and Welfare, Subject 'The allowable standard for exposure noise level in worker's daily work hours' dated January 26, B.E. 2561 (2018).
- <sup>3/</sup> Notification of the Department of Labour Protection and Welfare, Subject 'The criteria, measurement methods and analysis of working condition related to heat, light or noise including a period of time and a category of business to be carried out, dated March 12, B.E. 2561 (2018).

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**Report No. : 2024-500001219 / 004-2 (Page 1 of 5)**

**Issued date : June 11, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Workplace Noise Level **MEASUREMENT DATE :** April 25, 2024  
**MEASUREMENT LOCATION :** ABS/SAN Plant **MEASURED BY :** [REDACTED]  
**CALIBRATION DATA :** Model ST:120, TENMARS, Serial No. 211203780,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 94.0 dB(A), Post Cal. : 93.9 dB(A)  
**SOUND LEVEL METER NO. :** Model NA-28, RION, Serial No. 00570431

Period	Noise Level at Polymerization SAN (DN) [dB(A)]	Standard <sup>1/</sup>
09:00-10:00	84.2	
10:00-11:00	84.3	
11:00-12:00	84.1	
12:00-13:00	84.3	
13:00-14:00	84.5	
14:00-15:00	85.5	
15:00-16:00	84.6	
16:00-17:00	84.3	
17:00-18:00	84.4	
18:00-19:00	84.2	
19:00-20:00	84.0	
20:00-21:00	84.2	
<b>Leq-12 hrs</b>	<b>84.4</b>	<b>≤ 87</b>
<b>Lmax</b>	<b>89.9</b>	<b>≤ 140</b>

**Source :** <sup>1/</sup> Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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**Report No. : 2024-500001219 / 004-2 (Page 2 of 5)**

**Issued date : June 11, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Workplace Noise Level **MEASUREMENT DATE :** April 25, 2024  
**MEASUREMENT LOCATION :** ABS/SAN Plant **MEASURED BY :** [REDACTED]  
**CALIBRATION DATA :** Model ST:120, TENMARS, Serial No. 211203780,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 94.0 dB(A), Post Cal. : 94.2 dB(A)  
**SOUND LEVEL METER NO. :** Model NA-53, RION, Serial No. 00830426 23965

Period	Noise Level at Polymerization SAN (CN) [dB(A)]	Standard <sup>1/</sup>
09:00-10:00	85.5	
10:00-11:00	85.1	
11:00-12:00	85.1	
12:00-13:00	85.3	
13:00-14:00	85.3	
14:00-15:00	85.2	
15:00-16:00	85.0	
16:00-17:00	85.0	
17:00-18:00	84.7	
18:00-19:00	84.7	
19:00-20:00	84.7	
20:00-21:00	84.9	
<b>Leq-12 hrs</b>	<b>85.0</b>	<b>≤ 87</b>
<b>Lmax</b>	<b>95.4</b>	<b>≤ 140</b>

**Source :** <sup>1/</sup> Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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**Report No. : 2024-500001219 / 004-2 (Page 3 of 5)**

**Issued date :** June 11, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
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**Tel.** [REDACTED] **Fax.** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Workplace Noise Level **MEASUREMENT DATE :** April 25, 2024  
**MEASUREMENT LOCATION :** ABS/SAN Plant **MEASURED BY :** [REDACTED]  
**CALIBRATION DATA :** Model ST:120, TENMARS, Serial No. 211203780,  
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 94.0 dB(A), Post Cal. : 94.1 dB(A)  
**SOUND LEVEL METER NO. :** Model NL-52, RION, Serial No. 00710417

Period	Noise Level at Polymerization Powder (6MG) [dB(A)]	Standard <sup>1/</sup>
09:00-10:00	77.2	
10:00-11:00	76.7	
11:00-12:00	78.7	
12:00-13:00	81.2	
13:00-14:00	82.7	
14:00-15:00	78.5	
15:00-16:00	77.9	
16:00-17:00	76.1	
17:00-18:00	77.7	
18:00-19:00	77.6	
19:00-20:00	77.8	
20:00-21:00	81.3	
<b>Leq-12 hrs</b>	<b>79.1</b>	<b>≤ 87</b>
<b>Lmax</b>	<b>100.0</b>	<b>≤ 140</b>

**Source :** <sup>1/</sup> Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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**Report No. : 2024-500001219 / 004-2 (Page 4 of 5)**

**Issued date : June 11, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. Fax. E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS : Workplace Noise Level**

**MEASUREMENT DATE : May 24, 2024**

**MEASUREMENT LOCATION : ABS/SAN Plant**

**MEASURED BY :**

**CALIBRATION DATA : Model ST:120, TENMARS, Serial No. 211203780,**

**Calibration Value Reference: 94.0 dB(A), Pre Cal. : 94.0 dB(A), Post Cal. : 94.0 dB(A)**

**SOUND LEVEL METER NO. : Model NA-28, RION, Serial No. 00570431**

Period	Noise Level at Compounding (BBR) [dB(A)]	Standard <sup>1/</sup>
09:00-10:00	78.9	
10:00-11:00	78.8	
11:00-12:00	78.8	
12:00-13:00	78.8	
13:00-14:00	78.9	
14:00-15:00	78.9	
15:00-16:00	78.9	
16:00-17:00	78.7	
17:00-18:00	78.7	
18:00-19:00	78.6	
19:00-20:00	78.7	
20:00-21:00	78.4	
<b>Leq-12 hrs</b>	<b>78.8</b>	<b>≤ 87</b>
<b>Lmax</b>	<b>79.8</b>	<b>≤ 140</b>

**Source :** <sup>1/</sup> Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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**Report No. : 2024-500001219 / 004-2 (Page 5 of 5)**

**Issued date : June 11, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. Fax. E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS : Workplace Noise Level**

**MEASUREMENT DATE : April 26, 2024**

**MEASUREMENT LOCATION : ABS/SAN Plant**

**MEASURED BY :**

**CALIBRATION DATA : Model ST:120, TENMARS, Serial No. 211203780,**

**Calibration Value Reference: 94.0 dB(A), Pre Cal. : 94.0 dB(A), Post Cal. : 93.9 dB(A)**

**SOUND LEVEL METER NO. : Model NA-53, RION, Serial No. 00830426 23965**

Period	Noise Level at Utility [dB(A)]	Standard <sup>1/</sup>
09:00-10:00	86.8	
10:00-11:00	86.9	
11:00-12:00	86.8	
12:00-13:00	86.8	
13:00-14:00	86.7	
14:00-15:00	86.6	
15:00-16:00	86.7	
16:00-17:00	86.8	
17:00-18:00	86.9	
18:00-19:00	87.0	
19:00-20:00	87.1	
20:00-21:00	87.1	
<b>Leq-12 hrs</b>	<b>86.9</b>	<b>≤ 87</b>
<b>Lmax</b>	<b>93.9</b>	<b>≤ 140</b>

**Source :** <sup>1/</sup> Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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**Report No. : 2024-500001219 / 004-4 (page 1 of 5)**

**Issued date : June 11, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

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4/2, I-8 Rd., Map Ta Phut Industrial Estate. T. Map Ta Phut, A. Muang, Rayong 21150

Tel. :

Fax. :

E-mail: :

## Analysis Report

**SAMPLE DESIGNATED AS : Octave Band**

**MEASUREMENT DATE : April 25, 2024**

**MEASUREMENT LOCATION : ABS/SAN Plant**

**MEASURED BY :**

**CALIBRATION DATA :**

Model ST:120, TENMARS, Serial No. 211203780,

Calibration Value Reference: 94.0 dB(A), Pre Cal. : 94.0 dB(A), Post Cal. : 93.9 dB(A)

**SOUND LEVEL METER NO. : Model NA-28, RION, Serial No. 00570431**

Time	Octave Bands Frequency (Hz)											
	Average	16	31.5	63	125	250	500	1,000	2,000	4,000	8,000	16,000
	Sound Pressure Level at Polymerization SAN (DN) [dB(A)]*											
1 <sup>st</sup> hour	84.2	23.1	40.1	50.8	60.0	69.4	74.5	76.3	79.5	77.2	75.5	67.4
2 <sup>nd</sup> hour	84.3	23.4	40.1	50.7	60.6	69.6	74.8	76.2	79.4	77.5	75.9	67.8
3 <sup>rd</sup> hour	84.1	24.2	40.5	50.6	60.4	69.5	74.6	76.1	79.1	77.2	75.6	67.7
4 <sup>th</sup> hour	84.3	24.6	40.6	50.1	60.3	69.1	74.6	75.8	79.9	77.2	75.8	67.6
5 <sup>th</sup> hour	84.5	25.0	42.1	51.1	62.0	69.1	75.0	76.3	80.1	77.2	75.7	67.4
6 <sup>th</sup> hour	85.5	23.7	40.3	50.3	60.4	69.4	75.2	77.5	81.4	78.4	76.0	67.6
7 <sup>th</sup> hour	84.6	23.2	39.8	49.5	59.9	68.8	74.7	76.2	80.6	77.3	75.7	67.5
8 <sup>th</sup> hour	84.3	23.0	40.1	50.1	60.0	69.0	74.4	76.0	80.1	77.2	75.5	67.5
9 <sup>th</sup> hour	84.4	22.9	40.8	50.4	60.4	69.1	74.3	76.1	80.2	77.3	75.5	67.5
10 <sup>th</sup> hour	84.2	22.8	41.0	50.8	60.4	69.0	74.5	76.1	79.7	77.2	75.5	67.6
11 <sup>th</sup> hour	84.0	22.8	40.9	50.5	60.4	69.2	74.6	76.5	78.8	77.3	75.6	67.6
12 <sup>th</sup> hour	84.2	22.9	40.9	50.9	60.9	68.8	74.4	75.8	76.6	78.4	78.3	68.5
Leq-12 hrs	84.4	23.5	40.6	50.5	60.5	69.2	74.6	76.3	79.7	77.5	76.0	67.6
Standard <sup>1/</sup>	≤ 87	-	-	-	-	-	-	-	-	-	-	-

**Remark : \*** Measuring Leq 1 hour by Octave-band meter.

**Source : 1/** Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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**Report No. : 2024-500001219 / 004-4 (page 2 of 5)**

**Issued date : June 11, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

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**Tel. [REDACTED]**

**Fax. [REDACTED]**

**E-mail: [REDACTED]**

## Analysis Report

**SAMPLE DESIGNATED AS : Octave Band**

**MEASUREMENT DATE : April 25, 2024**

**MEASUREMENT LOCATION : ABS/SAN Plant**

**MEASURED BY : [REDACTED]**

**CALIBRATION DATA : Model ST:120, TENMARS, Serial No. 211203780,**

**Calibration Value Reference: 94.0 dB(A), Pre Cal. : 94.0 dB(A), Post Cal. : 94.2 dB(A)**

**SOUND LEVEL METER NO. : Model NA-53, RION, Serial No. 00830426 23965**

Time	Octave Bands Frequency (Hz)											
	Average	16	31.5	63	125	250	500	1,000	2,000	4,000	8,000	16,000
	Sound Pressure Level at Polymerization SAN (CN) [dB(A)]*											
1 <sup>st</sup> hour	85.5	23.0	39.3	50.8	62.9	79.4	71.3	77.3	80.7	78.4	69.8	58.2
2 <sup>nd</sup> hour	85.1	23.3	39.6	51.1	62.7	79.1	71.3	77.2	80.4	77.8	69.8	58.3
3 <sup>rd</sup> hour	85.1	23.5	39.8	50.8	62.5	78.8	71.4	77.2	80.1	78.1	69.7	58.3
4 <sup>th</sup> hour	85.3	23.3	39.5	50.7	62.3	78.8	71.1	76.9	80.6	78.6	69.5	58.1
5 <sup>th</sup> hour	85.3	23.2	39.9	51.1	62.6	78.6	71.2	77.2	80.5	78.7	69.5	58.2
6 <sup>th</sup> hour	85.2	23.3	39.8	51.1	62.2	78.1	71.3	77.0	80.8	78.6	69.6	58.2
7 <sup>th</sup> hour	85.0	23.1	39.4	50.8	62.1	78.1	71.0	76.9	80.6	78.1	69.5	58.2
8 <sup>th</sup> hour	85.0	23.1	39.6	50.7	62.2	78.4	71.1	77.4	80.3	78.0	69.4	58.1
9 <sup>th</sup> hour	84.7	23.1	39.9	51.0	62.1	77.9	71.3	76.1	80.7	76.9	69.4	58.2
10 <sup>th</sup> hour	84.7	23.1	39.7	50.9	61.9	77.6	71.3	75.9	80.8	77.1	69.4	58.3
11 <sup>th</sup> hour	84.7	23.1	39.6	50.8	62.0	77.8	71.2	76.3	80.5	77.6	69.2	58.0
12 <sup>th</sup> hour	84.9	23.1	39.5	50.9	62.5	78.3	71.1	76.8	80.1	78.4	69.6	58.4
Leq-12 hrs	85.0	23.2	39.6	50.9	62.3	78.4	71.2	76.9	80.5	78.0	69.5	58.2
Standard <sup>1/</sup>	≤ 87	-	-	-	-	-	-	-	-	-	-	-

**Remark : \*** Measuring Leq 1 hour by Octave-band meter.

**Source : 1/** Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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**Report No. : 2024-500001219 / 004-4 (page 3 of 5)**

**Issued date : June 11, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. :**

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**E-mail: :**

## Analysis Report

**SAMPLE DESIGNATED AS : Octave Band**

**MEASUREMENT DATE : April 25, 2024**

**MEASUREMENT LOCATION : ABS/SAN Plant**

**MEASURED BY :**

**CALIBRATION DATA : Model ST:120, TENMARS, Serial No. 211203780,**

**Calibration Value Reference: 94.0 dB(A), Pre Cal. : 94.0 dB(A), Post Cal. : 94.1 dB(A)**

**SOUND LEVEL METER NO. : Model NL-52, RION, Serial No. 00710417**

Time	Octave Bands Frequency (Hz)											
	Average	16	31.5	63	125	250	500	1,000	2,000	4,000	8,000	16,000
	Sound Pressure Level at Polymerization Powder (6MG) [dB(A)]*											
1 <sup>st</sup> hour	77.2	20.3	38.4	48.9	59.9	69.1	69.0	70.6	69.1	68.4	68.3	62.0
2 <sup>nd</sup> hour	76.7	20.6	38.9	48.9	58.0	70.4	69.1	70.4	68.6	66.6	65.1	58.7
3 <sup>rd</sup> hour	78.7	21.5	38.9	49.6	58.9	69.3	70.3	72.4	72.3	70.8	67.5	61.4
4 <sup>th</sup> hour	81.2	22.1	39.0	49.3	58.2	69.5	69.7	70.8	72.0	75.8	75.4	70.4
5 <sup>th</sup> hour	82.7	21.9	42.6	54.8	65.3	70.7	73.5	73.8	73.9	76.5	76.1	71.3
6 <sup>th</sup> hour	78.5	20.9	39.6	51.2	61.1	70.1	70.8	72.3	71.4	69.7	67.4	61.4
7 <sup>th</sup> hour	77.9	21.0	39.2	49.5	57.8	69.0	70.1	71.7	71.6	69.4	66.0	59.6
8 <sup>th</sup> hour	76.1	20.7	38.9	49.5	58.3	67.4	69.5	70.6	69.1	65.8	62.6	55.7
9 <sup>th</sup> hour	77.7	20.5	39.7	49.8	58.6	67.2	69.9	71.7	71.6	69.5	65.9	58.6
10 <sup>th</sup> hour	77.6	19.4	38.7	49.4	58.0	67.5	70.1	71.9	70.6	68.7	66.9	60.4
11 <sup>th</sup> hour	77.8	18.7	38.4	49.3	58.0	67.2	70.1	71.3	69.5	69.5	70.1	63.9
12 <sup>th</sup> hour	81.3	19.5	38.8	49.9	61.3	67.1	70.0	71.8	71.7	75.2	76.0	71.2
Leq-12 hrs	79.1	20.7	39.4	50.4	60.1	68.9	70.3	71.7	71.2	71.9	71.3	66.0
Standard <sup>1/</sup>	≤ 87	-	-	-	-	-	-	-	-	-	-	-

**Remark : \*** Measuring Leq 1 hour by Octave-band meter.

**Source : <sup>1/</sup>** Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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**Report No. : 2024-500001219 / 004-4 (page 4 of 5)**

**Issued date : June 11, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS :**

4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

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Fax. [REDACTED]

E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS : Octave Band**

**MEASUREMENT DATE : May 24, 2024**

**MEASUREMENT LOCATION : ABS/SAN Plant**

**MEASURED BY :**

**CALIBRATION DATA :**

Model ST:120, TENMARS, Serial No. 211203780,

Calibration Value Reference: 94.0 dB(A), Pre Cal. : 94.0 dB(A), Post Cal. : 94.0 dB(A)

**SOUND LEVEL METER NO. : Model NA-28, RION, Serial No. 00570431**

Time	Octave Bands Frequency (Hz)											
	Average	16	31.5	63	125	250	500	1,000	2,000	4,000	8,000	16,000
	Sound Pressure Level at Compounding (BBR) [dB(A)]*											
1 <sup>st</sup> hour	78.9	44.7	42.2	46.3	55.5	64.3	71.7	72.0	73.8	71.8	67.5	55.1
2 <sup>nd</sup> hour	78.8	44.5	41.8	45.5	55.4	64.2	71.6	72.0	73.8	71.5	66.9	54.8
3 <sup>rd</sup> hour	78.8	43.7	41.3	45.0	55.4	64.4	71.4	72.0	73.9	71.6	66.9	54.6
4 <sup>th</sup> hour	78.8	43.8	41.4	45.4	55.2	64.4	71.3	72.1	73.8	71.5	66.8	54.6
5 <sup>th</sup> hour	78.9	45.2	42.6	46.4	55.6	64.6	71.5	72.2	73.9	71.6	66.8	54.7
6 <sup>th</sup> hour	78.9	44.1	41.8	46.3	55.4	64.4	71.5	72.3	73.9	71.6	66.8	54.6
7 <sup>th</sup> hour	78.9	44.3	41.6	45.3	55.4	64.4	71.4	72.0	74.0	71.6	66.8	54.5
8 <sup>th</sup> hour	78.7	44.5	41.7	45.5	55.2	64.7	71.3	71.9	73.8	71.4	66.7	54.3
9 <sup>th</sup> hour	78.7	45.0	42.1	45.9	55.1	64.7	71.0	71.9	73.8	71.6	67.1	54.6
10 <sup>th</sup> hour	78.6	45.1	42.1	45.5	55.0	64.5	70.9	71.8	73.7	71.2	66.5	54.2
11 <sup>th</sup> hour	78.7	45.0	42.2	46.0	55.2	64.7	71.1	71.9	73.8	71.4	66.6	54.2
12 <sup>th</sup> hour	78.4	45.2	42.6	46.4	55.2	64.5	71.1	71.6	73.2	71.1	66.0	53.4
Leq-12 hrs	78.8	44.6	42.0	45.8	55.3	64.5	71.3	72.0	73.8	71.5	66.8	54.5
Standard <sup>1/</sup>	≤ 87	-	-	-	-	-	-	-	-	-	-	-

**Remark : \*** Measuring Leq 1 hour by Octave-band meter.

**Source : 1/** Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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**Report No. : 2024-500001219 / 004-4 (page 5 of 5)**

**Issued date : June 11, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. :**

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## Analysis Report

**SAMPLE DESIGNATED AS : Octave Band**

**MEASUREMENT DATE : April 26, 2024**

**MEASUREMENT LOCATION : ABS/SAN Plant**

**MEASURED BY :**

**CALIBRATION DATA : Model ST:120, TENMARS, Serial No. 211203780,**

**Calibration Value Reference: 94.0 dB(A), Pre Cal. : 94.0 dB(A), Post Cal. : 93.9 dB(A)**

**SOUND LEVEL METER NO. : Model NA-53, RION, Serial No. 00830426 23965**

Time	Octave Bands Frequency (Hz)											
	Average	16	31.5	63	125	250	500	1,000	2,000	4,000	8,000	16,000
	Sound Pressure Level at Utility [dB(A)]*											
1 <sup>st</sup> hour	86.8	21.5	39.0	55.7	62.3	69.4	75.9	77.1	80.4	82.8	78.9	60.9
2 <sup>nd</sup> hour	86.9	21.5	38.8	55.8	62.4	69.3	75.7	77.0	80.5	82.9	79.0	61.0
3 <sup>rd</sup> hour	86.8	21.6	39.0	55.9	62.1	69.2	75.7	76.9	80.4	82.9	78.9	60.9
4 <sup>th</sup> hour	86.8	21.6	39.5	56.4	61.9	69.0	75.7	76.9	80.3	82.9	78.8	60.8
5 <sup>th</sup> hour	86.7	21.7	39.7	56.4	62.0	69.0	75.5	76.6	80.1	82.8	78.8	60.6
6 <sup>th</sup> hour	86.6	21.8	40.1	56.6	62.7	69.4	75.5	76.8	80.0	82.7	78.9	60.6
7 <sup>th</sup> hour	86.7	21.6	39.8	56.7	62.8	69.5	75.6	76.9	80.2	82.8	78.9	60.6
8 <sup>th</sup> hour	86.8	21.9	39.5	55.7	62.5	69.7	75.8	77.5	80.3	82.6	78.8	60.7
9 <sup>th</sup> hour	86.9	21.7	39.1	55.4	62.5	69.5	76.2	77.6	80.4	82.8	79.0	61.0
10 <sup>th</sup> hour	87.0	21.4	38.9	55.2	62.3	69.3	76.2	77.4	80.5	82.9	79.2	61.2
11 <sup>th</sup> hour	87.1	21.4	38.9	55.3	62.4	69.3	76.3	77.5	80.6	82.9	79.3	61.3
12 <sup>th</sup> hour	87.1	21.5	39.0	55.2	62.4	69.4	76.4	77.6	80.5	82.9	79.3	61.3
Leq-12 hrs	86.9	21.6	39.3	55.9	62.4	69.3	75.9	77.2	80.3	82.8	79.0	60.9
Standard <sup>1/</sup>	≤ 87	-	-	-	-	-	-	-	-	-	-	-

**Remark : \*** Measuring Leq 1 hour by Octave-band meter.

**Source : <sup>1/</sup>** Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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**Report No. : 2024-500001219 / 004-3 (Page 1 of 1) Issued date : June 11, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Noise Dose **MEASUREMENT DATE :** April 25-26 and 24 May, 2024  
**MEASUREMENT LOCATION :** ABS/SAN Plant **MEASURED BY :** [REDACTED]  
**CALIBRATION DATA :** Calibrator Model CR2 Plus, Ciffer Serial No. 37001125, Serial No. 37001157  
 Pre Cal. : 94.0 dB(A), Post Cal. : 94.0 dB(A)  
**SOUND LEVEL METER NO. :** Model Sonus2plus, CASELLA, Ciffer Serial No. 32008101, Serial No. 2311490,  
 Serial No. 2311550, Serial No. 32005331, Serial No. 32008075 and Serial No. 32006987

Monitoring Station	Shift	Name	Noise Dose (%)	TWA <sub>(8)</sub> [dB(A)]	TWA <sub>(8)</sub> [PPE] <sup>1/</sup> [dB(A)]	TWA <sub>(12)</sub> [dB(A)]	TWA <sub>(12)</sub> [PPE] <sup>1/</sup> [dB(A)]
Polymerization SAN (DN) (April 25, 2024)	Day	Mr. Thanawat	79.6	84.0	69.3	82.2	67.5
	Night	Mr. Soottipat	153.7	86.9	72.1	85.1	70.4
Polymerization SAN (CN) (April 25, 2024)	Day	Mr. Amnay	104.5	85.2	70.4	83.4	68.7
	Night	Mr. Thaweesak	15.8	77.0	62.2	75.2	60.5
Polymerization Powder (6MG) (April 25, 2024)	Day	Mr. Phumanun	104.5	85.2	70.4	83.4	68.7
	Night	Mr. Phonlapat	167.9	87.3	72.5	85.5	70.7
Compounding (BBR) (May 24, 2024)	Day	Mr. Awirut	202.0	88.1	73.3	86.3	71.5
	Night	Mr. Apichat	181.1	87.6	72.8	85.8	71.1
Utility (April 26, 2024)	Day	Mr. Anan	117.0	85.7	70.9	83.9	69.2
	Night	Mr. Preecha	43.3	81.4	66.6	79.6	64.9
<b>Standards<sup>2/, 3/</sup></b>				<b>≤ 85</b>		<b>≤ 83</b>	

- Remarks :**
- Working hours per day = 12 hours
  - Setting values for noise dosimeter are as the followings;
    - Range = 70-140 dB
    - Criterion level = 85 dB
    - Exchange rate = 3 decibels
    - Threshold level = 80 dB
    - Response time = Slow
    - Frequency weighting = A
  - TWA<sub>(8)</sub> : Time Weighted Average for 8 working hours per day.
  - TWA<sub>(12)</sub> : Time Weighted Average for 12 working hours per day.
  - TWA [PPE] : The sound level calculation when wearing personal protective equipment (PPE) ; NRR of Ear Muffs =29
- Sources :**
- <sup>1/</sup> Notification of the Department of Labour Protection and Welfare, Subject 'The sound level calculation when wearing personal protective equipment' dated February 14, B.E. 2561 (2018).
  - <sup>2/</sup> Notification of the Department of Labour Protection and Welfare, Subject 'The allowable standard for exposure noise level in worker's daily work hours' dated January 26, B.E. 2561 (2018).
  - <sup>3/</sup> Notification of the Department of Labour Protection and Welfare, Subject 'The criteria, measurement methods and analysis of working condition related to heat, light or noise including a period of time and a category of business to be carried out, dated March 12, B.E. 2561 (2018).

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**Report No. : 2024-500000557 / 003 (Page 1 of 2)** Issued date : February 1, 2024

**CLIENT** : INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT** :   
**ADDRESS** : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS** : Workplace Air Quality  
**SAMPLING LOCATION** : ABS/SAN Plant  
**SAMPLING DATE** : January 10, 2024  
**SAMPLING BY** :

Station	Parameter	Unit	Result	Standards (TWA)		Analytical Method
				THAI <sup>1/</sup>	ACGIH <sup>2/</sup>	
At the North of SAN (DN)	Acrylonitrile	ppm	N.D.	≤ 2	≤ 2	NIOSH 1604
	Styrene	ppm	N.D.	≤ 100	≤ 10	NIOSH 1501
	1,3-Butadiene	ppm	N.D.	≤ 1	≤ 2	NIOSH 1024
At the South of SAN (DN)	Acrylonitrile	ppm	N.D.	≤ 2	≤ 2	NIOSH 1604
	Styrene	ppm	N.D.	≤ 100	≤ 10	NIOSH 1501
	1,3-Butadiene	ppm	N.D.	≤ 1	≤ 2	NIOSH 1024
At the South of 6MG	Acrylonitrile	ppm	N.D.	≤ 2	≤ 2	NIOSH 1604
	Styrene	ppm	N.D.	≤ 100	≤ 10	NIOSH 1501
	1,3-Butadiene	ppm	N.D.	≤ 1	≤ 2	NIOSH 1024
Wetside SAN Process : Personal Sampling (K.Soottipat )	Acrylonitrile	ppm	N.D.	≤ 2	≤ 2	NIOSH 1604
	Styrene	ppm	N.D.	≤ 100	≤ 10	NIOSH 1501
	1,3-Butadiene	ppm	N.D.	≤ 1	≤ 2	NIOSH 1024
Wetside Powder Process : Personal Sampling (K.Korakot)	Acrylonitrile	ppm	N.D.	≤ 2	≤ 2	NIOSH 1604
	Styrene	ppm	N.D.	≤ 100	≤ 10	NIOSH 1501
	1,3-Butadiene	ppm	N.D.	≤ 1	≤ 2	NIOSH 1024

**Remarks :** - TLV-TWA = Threshold Limit Value – Time Weighted Average.  
 \* The limitation of maximum concentration for hazardous chemical during any time of working.  
 - N.D. = Not Detected  
 - Detection Limit : Acrylonitrile <0.4097 ppm, Styrene <0.0210 ppm and 1,3-Butadiene <0.5392 ppm  
**Sources :** <sup>1/</sup> Notification of the Department of Labor Protection and Welfare, Subject Limitation of Hazardous Chemical Concentration, Vol.134, Special Part 198 D, dated August 3, B.E. 2560 (2017)  
<sup>2/</sup> Recommendation value of Threshold Limit Value issued by ACGIH (American Conference of Governmental Industrial Hygienists), 2022.

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**Report No. : 2024-500000557 / 003 (Page 2 of 2)** Issued date : February 1, 2024

**CLIENT** : INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT** :   
**ADDRESS** : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS** : Workplace Air Quality  
**SAMPLING LOCATION** : ABS/SAN Plant  
**SAMPLING DATE** : January 10, 2024  
**SAMPLING BY** :

Station	Parameter	Unit	Result	Standards (TWA)		Analytical Method
				THAI <sup>1/</sup>	ACGIH <sup>2/</sup>	
At the North of SAN (DN)	Alpha Methyl Styrene	ppm	N.D.	≤ 100*	-	Based on NIOSH 1501
At the South of SAN (DN)	Alpha Methyl Styrene	ppm	N.D.	≤ 100*	-	Based on NIOSH 1501
At the South of 6MG	Alpha Methyl Styrene	ppm	N.D.	≤ 100*	-	Based on NIOSH 1501
Wetside SAN Process : Personal Sampling (K.Soottipat )	Alpha Methyl Styrene	ppm	N.D.	≤ 100*	-	Based on NIOSH 1501
Wetside Powder Process : Personal Sampling (K.Korakot)	Alpha Methyl Styrene	ppm	N.D.	≤ 100*	-	Based on NIOSH 1501

**Remarks :**

- TLV-TWA = Threshold Limit Value – Time Weighted Average.
- \* The limitation of maximum concentration for hazardous chemical during any time of working.
- N.D. = Not Detected
- Detection Limit : Alpha Methyl Styrene <0.1234 ppm

**Sources :**

- <sup>1/</sup> Notification of the Department of Labor Protection and Welfare, Subject Limitation of Hazardous Chemical Concentration, Vol.134, Special Part 198 D, dated August 3, B.E. 2560 (2017)
- <sup>2/</sup> Recommendation value of Threshold Limit Value issued by ACGIH (American Conference of Governmental Industrial Hygienists), 2022.

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E 275240

**Report No. : 2024-500001219 / 003 (Page 1 of 2)** Issued date : May 10, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Workplace Air Quality  
**SAMPLING LOCATION :** ABS/SAN Plant  
**SAMPLING DATE :** April 26, 2024  
**SAMPLING BY :** [REDACTED]

Station	Parameter	Unit	Result	Standards (TWA)		Analytical Method
				THAI <sup>1/</sup>	ACGIH <sup>2/</sup>	
At the North of SAN (DN)	Acrylonitrile	ppm	N.D.	≤ 2	≤ 2	NIOSH 1604
	Styrene	ppm	N.D.	≤ 100	≤ 10	NIOSH 1501
	1,3-Butadiene	ppm	N.D.	≤ 1	≤ 2	NIOSH 1024
At the South of SAN (DN)	Acrylonitrile	ppm	N.D.	≤ 2	≤ 2	NIOSH 1604
	Styrene	ppm	N.D.	≤ 100	≤ 10	NIOSH 1501
	1,3-Butadiene	ppm	N.D.	≤ 1	≤ 2	NIOSH 1024
At the South of 6MG	Acrylonitrile	ppm	N.D.	≤ 2	≤ 2	NIOSH 1604
	Styrene	ppm	N.D.	≤ 100	≤ 10	NIOSH 1501
	1,3-Butadiene	ppm	N.D.	≤ 1	≤ 2	NIOSH 1024
Wetside SAN Process : Personal Sampling (K.Thanawat)	Acrylonitrile	ppm	N.D.	≤ 2	≤ 2	NIOSH 1604
	Styrene	ppm	N.D.	≤ 100	≤ 10	NIOSH 1501
	1,3-Butadiene	ppm	N.D.	≤ 1	≤ 2	NIOSH 1024
Wetside Powder Process : Personal Sampling (K.Kriengsak)	Acrylonitrile	ppm	N.D.	≤ 2	≤ 2	NIOSH 1604
	Styrene	ppm	N.D.	≤ 100	≤ 10	NIOSH 1501
	1,3-Butadiene	ppm	N.D.	≤ 1	≤ 2	NIOSH 1024

**Remarks :**

- TLV-TWA = Threshold Limit Value – Time Weighted Average.
- \* The limitation of maximum concentration for hazardous chemical during any time of working.
- N.D. = Not Detected
- Detection Limit : Acrylonitrile <0.3982 ppm, Styrene <0.0389 ppm and 1,3-Butadiene <0.7258 ppm

**Sources :**

- <sup>1/</sup> Notification of the Department of Labor Protection and Welfare, Subject Limitation of Hazardous Chemical Concentration, Vol.134, Special Part 198 D, dated August 3, B.E. 2560 (2017)
- <sup>2/</sup> Recommendation value of Threshold Limit Value issued by ACGIH (American Conference of Governmental Industrial Hygienists), 2022.

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E 280333

**Report No. : 2024-500001219 / 003 (Page 2 of 2)** Issued date : May 10, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Workplace Air Quality  
**SAMPLING LOCATION :** ABS/SAN Plant

**SAMPLING DATE :** April 26, 2024  
**SAMPLING BY :** [REDACTED]

Station	Parameter	Unit	Result	Standards (TWA)		Analytical Method
				THAI <sup>1/</sup>	ACGIH <sup>2/</sup>	
At the North of SAN (DN)	Alpha Methyl Styrene	ppm	N.D.	≤ 100*	-	Based on NIOSH 1501
At the South of SAN (DN)	Alpha Methyl Styrene	ppm	N.D.	≤ 100*	-	Based on NIOSH 1501
At the South of 6MG	Alpha Methyl Styrene	ppm	N.D.	≤ 100*	-	Based on NIOSH 1501
Wetside SAN Process : Personal Sampling (K.Thanawat)	Alpha Methyl Styrene	ppm	N.D.	≤ 100*	-	Based on NIOSH 1501
Wetside Powder Process : Personal Sampling (K.Kriengsak)	Alpha Methyl Styrene	ppm	N.D.	≤ 100*	-	Based on NIOSH 1501

**Remarks :**

- TLV-TWA = Threshold Limit Value – Time Weighted Average.
- \* The limitation of maximum concentration for hazardous chemical during any time of working.
- N.D. = Not Detected
- Detection Limit : Alpha Methyl Styrene <0.1714 ppm

**Sources :**

- <sup>1/</sup> Notification of the Department of Labor Protection and Welfare, Subject Limitation of Hazardous Chemical Concentration, Vol.134, Special Part 198 D, dated August 3, B.E. 2560 (2017)
- <sup>2/</sup> Recommendation value of Threshold Limit Value issued by ACGIH (American Conference of Governmental Industrial Hygienists), 2022.

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E 280334

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