

SHINY CHEMICAL INDUSTRIAL CO.,LTD.
NO.5 YEONG GONG 1ST. ROAD, YEONG AN SHIANG,
KAOHSIUNG SHIAN, TAIWAN
TEL:886-7-6219171(10 LINES) FAX:886-7-6222620

CERTIFICATE OF QUALITY

DATE :2011.01.25

TO WHOM IT MAY CONCERN:

RE: IBA

SHIPPED PER

Representative Sample From Material Above-Mentioned Has Been Analyzed
With The Results As Follows:

PURITY (WT PCT)	99.73
WATER CONTENT (WT PCT)	0.03
COLOR (PLATINUM-COBALT SCALE)	5
SPECIFIC GRAVITY (20/20 DEG.C.)	0.8032
ACIDITY AS ACETIC ACID (WT PCT)	0.0010
DISTILLATION RANGE AT 760MMHG	107.4~107.9
NON-VOLATILE MATTER (G/100ML)	0.0010
APPEARANCE	FREE FROM INSOLUBLE AND HAZE

SHINY CHEMICAL INDUSTRIAL CO.,LTD.
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TEL:886-7-6219171(10 LINES) FAX:886-7-6222620

CERTIFICATE OF QUALITY

DATE :2011.02.10

TO WHOM IT MAY CONCERN:

RE: IBA

SHIPPED PER

Representative Sample From Material Above-Mentioned Has Been Analyzed
With The Results As Follows:

PURITY (WT PCT)	99.9
WATER CONTENT (WT PCT)	0.02
COLOR (PLATINUM-COBALT SCALE)	5
SPECIFIC GRAVITY (20/20 DEG.C.)	0.8032
ACIDITY AS ACETIC ACID (WT PCT)	0.0010
DISTILLATION RANGE AT 760MMHG	107.4~107.9
NON-VOLATILE MATTER (G/100ML)	0.0010
APPEARANCE	FREE FROM INSOLUBLE AND HAZE

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TEL:886-7-6219171(10 LINES) FAX:886-7-6222620

CERTIFICATE OF QUALITY

DATE :2011.03.24

TO WHOM IT MAY CONCERN:

RE:IBA

SHIPPED PER

Representative Sample From Material Above-Mentioned Has Been Analyzed
With The Results As Follows:

PURITY (WT PCT)	99.88
WATER CONTENT (WT PCT)	0.05
COLOR (APHA)	5
SPECIFIC GRAVITY (20/20 DEG.C.)	0.8032
ACIDITY AS ACETIC ACID (WT PCT)	0.0010
DISTILLATION RANGE AT 760MMHG	107.4~107.9
NON-VOLATILE MATTER (G/100ML)	0.0010
APPEARANCE	FREE FROM INSOLUBLE AND HAZE

SHINY CHEMICAL INDUSTRIAL CO.,LTD.
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TEL:886-7-6219171(10 LINES) FAX:886-7-6222620

CERTIFICATE OF QUALITY

DATE :2011.03.31

TO WHOM IT MAY CONCERN:

RE:IBA

SHIPPED PER

Representative Sample From Material Above-Mentioned Has Been Analyzed
With The Results As Follows:

PURITY (WT PCT)	99.9
WATER CONTENT (WT PCT)	0.04
COLOR (APHA)	5
SPECIFIC GRAVITY (20/20 DEG.C.)	0.8032
ACIDITY AS ACETIC ACID (WT PCT)	0.0010
DISTILLATION RANGE AT 760MMHG	107.4~107.9
NON-VOLATILE MATTER (G/100ML)	0.0010
APPEARANCE	FREE FROM INSOLUBLE AND HAZE

SHINY CHEMICAL INDUSTRIAL CO.,LTD.
NO.5 YEONG GONG 1ST. ROAD, YEONG AN SHIANG,
KAOHSIUNG HSIAN, TAIWAN
TEL:886-7-6219171(10 LINES) FAX:886-7-6222620

CERTIFICATE OF QUALITY

DATE :2011.04.07

TO WHOM IT MAY CONCERN:

RE:IBA

SHIPPED PER

Representative Sample From Material Above-Mentioned Has Been Analyzed
With The Results As Follows:

PURITY (WT PCT)	99.9
WATER CONTENT (WT PCT)	0.04
COLOR (APHA)	5
SPECIFIC GRAVITY (20/20 DEG.C.)	0.8032
ACIDITY AS ACETIC ACID (WT PCT)	0.0010
DISTILLATION RANGE AT 760MMHG	107.4~107.9
NON-VOLATILE MATTER (G/100ML)	0.0010
APPEARANCE	FREE FROM INSOLUBLE AND HAZE

SHINY CHEMICAL INDUSTRIAL CO.,LTD.
NO.5 YEONG GONG 1ST. ROAD, YEONG AN SHIANG,
KAOHSIUNG HSIAN, TAIWAN
TEL:886-7-6219171(10 LINES) FAX:886-7-6222620

CERTIFICATE OF QUALITY

DATE :2011.04.12

TO WHOM IT MAY CONCERN:

RE:IBA

SHIPPED PER

Representative Sample From Material Above-Mentioned Has Been Analyzed
With The Results As Follows:

PURITY (WT PCT)	99.9
WATER CONTENT (WT PCT)	0.03
COLOR (APHA)	5
SPECIFIC GRAVITY (20/20 DEG.C.)	0.8032
ACIDITY AS ACETIC ACID (WT PCT)	0.0010
DISTILLATION RANGE AT 760MMHG	107.4~107.9
NON-VOLATILE MATTER (G/100ML)	0.0010
APPEARANCE	FREE FROM INSOLUBLE AND HAZE

SHINY CHEMICAL INDUSTRIAL CO.,LTD.
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TEL:886-7-6219171(10 LINES) FAX:886-7-6222620

CERTIFICATE OF QUALITY

DATE :2011.04.28

TO WHOM IT MAY CONCERN:

RE:IBA

SHIPPED PER

Representative Sample From Material Above-Mentioned Has Been Analyzed
With The Results As Follows:

PURITY (WT PCT)	99.88
WATER CONTENT (WT PCT)	0.06
COLOR (APHA)	5
SPECIFIC GRAVITY (20/20 DEG.C.)	0.8032
ACIDITY AS ACETIC ACID (WT PCT)	0.0010
DISTILLATION RANGE AT 760MMHG	107.4~107.9
NON-VOLATILE MATTER (G/100ML)	0.0010
APPEARANCE	FREE FROM INSOLUBLE AND HAZE

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TEL:886-7-6219171(10 LINES) FAX:886-7-6222620

CERTIFICATE OF QUALITY

DATE :2011.05.06

TO WHOM IT MAY CONCERN:

RE:IBA

SHIPPED PER

Representative Sample From Material Above-Mentioned Has Been Analyzed
With The Results As Follows:

PURITY (WT PCT)	99.9
WATER CONTENT (WT PCT)	0.06
COLOR (APHA)	5
SPECIFIC GRAVITY (20/20 DEG.C.)	0.8032
ACIDITY AS ACETIC ACID (WT PCT)	0.0010
DISTILLATION RANGE AT 760MMHG	107.4~107.9
NON-VOLATILE MATTER (G/100ML)	0.0010
APPEARANCE	FREE FROM INSOLUBLE AND HAZE

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TEL:886-7-6219171(10 LINES) FAX:886-7-6222620

CERTIFICATE OF QUALITY

DATE :2011.05.13

TO WHOM IT MAY CONCERN:

RE:IBA

SHIPPED PER

Representative Sample From Material Above-Mentioned Has Been Analyzed
With The Results As Follows:

PURITY (WT PCT)	99.9
WATER CONTENT (WT PCT)	0.06
COLOR (APHA)	5
SPECIFIC GRAVITY (20/20 DEG.C.)	0.8032
ACIDITY AS ACETIC ACID (WT PCT)	0.0010
DISTILLATION RANGE AT 760MMHG	107.4~107.9
NON-VOLATILE MATTER (G/100ML)	0.0010
APPEARANCE	FREE FROM INSOLUBLE AND HAZE

SHINY CHEMICAL INDUSTRIAL CO.,LTD.
NO.5 YEONG GONG 1ST. ROAD, YEONG AN SHIANG,
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TEL:886-7-6219171(10 LINES) FAX:886-7-6222620

CERTIFICATE OF QUALITY

DATE :2011.05.25

TO WHOM IT MAY CONCERN:

RE:IBA

SHIPPED PER

Representative Sample From Material Above-Mentioned Has Been Analyzed
With The Results As Follows:

PURITY (WT PCT)	99.70
WATER CONTENT (WT PCT)	0.06
COLOR (APHA)	5
SPECIFIC GRAVITY (20/20 DEG.C.)	0.8032
ACIDITY AS ACETIC ACID (WT PCT)	0.0010
DISTILLATION RANGE AT 760MMHG	107.4~107.9
NON-VOLATILE MATTER (G/100ML)	0.0010
APPEARANCE	FREE FROM INSOLUBLE AND HAZE

AS-1616

SHINY CHEMICAL INDUSTRIAL CO., LTD.
NO.5, YEONG GONG 1ST ROAD, YEONG AN HSIANG,
KAOHSIUNG HSIEN, TAIWAN,R.O.C.
TEL:886-7-6219171(10LINES) FAX:886-7-6215533

CERTIFICATE OF ANALYSIS

INVOICE NO. SC08113/11

DATE: AUG 25 2011

TO WHOM IT MAY CONCERN:

RE. 1.80 MT (10 DRUMS) ISO BUTYL ACETATE(IBAC)
5.40 MT (30 DRUMS)N BUTYL ACETATE(NBAC)
3.30 MT (20 DRUMS)ISO BUTANOL(IBA)
3.30 MT (20 DRUMS)N BUTANOL(NBA)

Shipped Per: KUO YU V-QI358NCNC

Representative sample from material above-mentioned has been analyzed
with the results as follows:

	IBAC	NBAC	IBA	NBA
PURITY (WT PCT)	99.71	99.82	99.73	99.9
WATER CONTENT (WT PCT)	0.02	0.02	0.07	0.03
COLOR (APHA)	5	5	5	5
SPECIFIC GRAVITY (20/20 DEG.C.)	0.8729	0.8830	0.8032	0.8111
ACIDITY AS ACETIC ACID (WT PCT)	0.0027	0.0028	0.0010	0.0010
DISTILLATION RANGE AT 760MMHG	116.2-116.9	125.3-126.1	107.4-107.9	117.1-117.7
NON-VOLATILE MATTER (G/100ML)	0.0010	0.0010	0.0010	0.0010
APPEARANCE	FREE FROM INSOLUBLE AND HAZE			

SHINY CHEMICAL INDUSTRIAL CO., LTD.



AS-1598

SHINY CHEMICAL INDUSTRIAL CO., LTD.
NO.5, YEONG GONG 1ST ROAD, YEONG AN HSIANG,
KAOHSIUNG HSIEN, TAIWAN,R.O.C.
TEL:886-7-6219171(10LINES) FAX:886-7-6215533

CERTIFICATE OF ANALYSIS

INVOICE NO. SC08036/11

DATE: AUG 13 2011

TO WHOM IT MAY CONCERN:

RE. 3.6 MT (20 DRUMS) ISO BUTYL ACETATE(IBAC)
9.36 MT (52 DRUMS)N BUTYL ACETATE(NBAC)
1.32 MT (8 DRUMS)ISO BUTANOL(IBA)
2 BOTTLES OF SAMPLE-N BUTYL ACETATE(NBAC)

Shipped Per: UNI-ARISE V-N325

Representative sample from material above-mentioned has been analyzed
with the results as follows:

	IBAC	NBAC	IBA
PURITY (WT PCT)	99.81	99.82	99.75
WATER CONTENT (WT PCT)	0.02	0.02	0.08
COLOR (APHA)	5	5	5
SPECIFIC GRAVITY (20/20 DEG.C.)	0.8729	0.8830	0.8032
ACIDITY AS ACETIC ACID (WT PCT)	0.0022	0.0028	0.0010
DISTILLATION RANGE AT 760MMHG	116.2-116.9	125.3-126.1	107.4-107.9
NON-VOLATILE MATTER (G/100ML)	0.0010	0.0010	0.0010
APPEARANCE	FREE FROM INSOLUBLE AND HAZE		

SHINY CHEMICAL INDUSTRIAL CO., LTD.

Chily Hsu

AS-1581

SHINY CHEMICAL INDUSTRIAL CO., LTD.
NO.5, YEONG GONG 1ST ROAD, YEONG AN HSIANG,
KAOHSIUNG HSIEN, TAIWAN,R.O.C.
TEL:886-7-6219171(10LINES) FAX:886-7-6215533

CERTIFICATE OF ANALYSIS

INVOICE NO. SC07049/11

DATE: JUL 09 2011

TO WHOM IT MAY CONCERN:

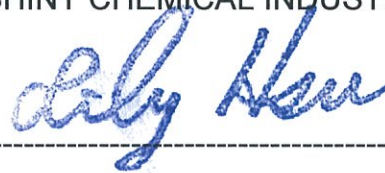
RE. 1.65 MT (10 DRUMS) ISO BUTANOL(IBA)
4.95 MT (30 DRUMS) NORMAL BUTANOL(NBA)

Shipped Per: HANSA ALTENBURG V-N009

Representative sample from material above-mentioned has been analyzed
with the results as follows:

	NBA	IBA
PURITY (WT PCT)	99.86	99.77
WATER CONTENT (WT PCT)	0.04	0.08
COLOR (APHA)	5	5
SPECIFIC GRAVITY (20/20 DEG.C.)	0.8111	0.8032
ACIDITY AS ACETIC ACID (WT PCT)	0.0010	0.0010
DISTILLATION RANGE AT 760MMHG	117.1-117.7	107.4-107.9
NON-VOLATILE MATTER (G/100ML)	0.0010	0.0010
APPEARANCE	FREE FROM INSOLUBLE AND HAZE	

SHINY CHEMICAL INDUSTRIAL CO., LTD.



AS-1572

SHINY CHEMICAL INDUSTRIAL CO., LTD.
NO.5, YEONG GONG 1ST ROAD, YEONG AN HSIANG,
KAOHSIUNG HSIEN, TAIWAN,R.O.C.
TEL:886-7-6219171(10LINES) FAX:886-7-6215533

CERTIFICATE OF ANALYSIS

INVOICE NO. SC07015/11

DATE: JUL 06 2011

TO WHOM IT MAY CONCERN:

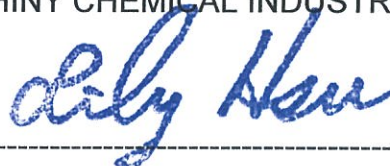
RE. 13.2 MT (1FCL) ISOBUTANOL(IBA)

Shipped Per: EVER PRIMA V-0838-104N

Representative sample from material above-mentioned has been analyzed
with the results as follows:

PURITY (WT PCT)	99.75
WATER CONTENT (WT PCT)	0.08
COLOR (APHA)	5
SPECIFIC GRAVITY (20/20 DEG.C.)	0.8032
ACIDITY AS ACETIC ACID (WT PCT)	0.0010
DISTILLATION RANGE AT 760MMHG	107.4-107.9
NON-VOLATILE MATTER (G/100ML)	0.0010
APPEARANCE	FREE FROM INSOLUBLE AND HAZE

SHINY CHEMICAL INDUSTRIAL CO., LTD.



AS-1521

SHINY CHEMICAL INDUSTRIAL CO., LTD.
NO.5, YEONG GONG 1ST ROAD, YEONG AN HSIANG,
KAOHSIUNG HSIEN, TAIWAN,R.O.C.
TEL:886-7-6219171(10LINES) FAX:886-7-6215533

CERTIFICATE OF ANALYSIS

INVOICE NO. SC04059/11

DATE: APR 09 2011

TO WHOM IT MAY CONCERN:

RE. 13.2 MT (1FCL) ISOBUTANOL(IBA)

Shipped Per: MASOVIA V-GJ102NCNC

Representative sample from material above-mentioned has been analyzed
with the results as follows:

	DATA	SPECIFICATION
PURITY (WT %)	99.9	99.5 MIN
WATER CONTENT (WT %)	0.04	0.20 MAX
COLOR (PLATINUM-COBALT SCALE)	5	10 MAX
SPECIFIC GRAVITY (20/20 °C)	0.8032	0.802-0.804
ACIDITY AS ACETIC ACID (WT %)	0.0010	0.005 MAX
DISTILLATION RANGE AT 760MMHG	107.4-107.9	107.9°C MAX
NON-VOLATILE MATTER (G/100ML)	0.0010	0.005 MAX
APPEARANCE	FREE FROM INSOLUBLE AND HAZE	FREE FROM INSOLUBLE AND HAZE

SHINY CHEMICAL INDUSTRIAL CO., LTD.

