



## SHANDONG YUANLI SCIENCE AND TECHNOLOGY CO., LTD.

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# CERTIFICATE OF ANALYSIS

**Commodity :** Dioctyl Maleate

**Inspect Date:** 5<sup>th</sup>, Jan , 2013

**Cas No.** 142-16-5

**Batch No.** 130105

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.6
DOF Content (GC) %	3 max	0.7
Total Ester Content (GC)%	99 min	99.3
Moisture %	0.1max	0.05
Acid Value (mgKOH/g)	0.1 max	0.07
2-Ethylhexanol%	0.1max	0.05
Flash Point °C (open cup)	170 min	172
Color (Pt-Co)	30 max	25

**ANALYSER:** ZHANG JIANMEI



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# CERTIFICATE OF ANALYSIS

**Commodity :** Dioctyl Maleate

**Inspect Date:** 15<sup>th</sup>, JAN, 2013

**Cas No.** 142-16-5

**Batch No.** 130115

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.4
DOF Content (GC) %	3 max	0.9
Total Ester Content (GC)%	99 min	99.3
Moisture %	0.1max	0.03
Acid Value (mgKOH/g)	0.1 max	0.07
2-Ethylhexanol%	0.1max	0.04
Flash Point °C (open cup)	170 min	172
Color (Pt-Co)	30 max	25

**ANALYSER:** ZHANG JIANMEI



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**CERTIFICATE OF ANALYSIS**

**Commodity :** Dioctyl Maleate

**Inspect Date:** 20<sup>nd</sup>, JAN, 2013

**Cas No.** 142-16-5

**Batch No.** 130120

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.3
DOF Content (GC) %	3 max	0.9
Total Ester Content (GC)%	99 min	99.2
Moisture %	0.1max	0.04
Acid Value (mgKOH/g)	0.1max	0.08
2-Ethylhexanol%	0.1max	0.04
Flash Point °C (open cup)	170 min	173
Color (Pt-Co)	30 max	25

**ANALYSER: ZHANG JIANMEI**



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# CERTIFICATE OF ANALYSIS

**Commodity :** Dioctyl Maleate

**Inspect Date:** 29<sup>th</sup>, JAN, 2013

**Cas No.** 142-16-5

**Batch No.** 130129

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.7
DOF Content (GC) %	3 max	0.7
Total Ester Content (GC)%	99 min	99.4
Moisture %	0.1max	0.05
Acid Value (mgKOH/g)	0.1max	0.05
2-Ethylhexanol%	0.1max	0.03
Flash Point °C (open cup)	170 min	172
Color (Pt-Co)	30 max	25

**ANALYSER:** ZHANG JIANMEI



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**CERTIFICATE OF ANALYSIS**

**Commodity :** Dioctyl Maleate

**Inspect Date:** 5<sup>th</sup>, FEB, 2013

**Cas No.** 142-16-5

**Batch No.** 130205

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.4
DOF Content (GC) %	3 max	0.9
Total Ester Content (GC)%	99 min	99.3
Moisture %	0.1max	0.03
Acid Value (mgKOH/g)	0.1 max	0.07
2-Ethylhexanol%	0.1max	0.04
Flash Point °C (open cup)	170 min	173
Color (Pt-Co)	30 max	25

**ANALYSER: ZHANG JIANMEI**



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# CERTIFICATE OF ANALYSIS

**Commodity :** Dioctyl Maleate

**Inspect Date:** 18<sup>th</sup>, FEB , 2013

**Cas No.** 142-16-5

**Batch No.** 130218

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.5
DOF Content (GC) %	3 max	1.0
Total Ester Content (GC)%	99 min	99.5
Moisture %	0.1max	0.06
Acid Value (mgKOH/g)	0.1max	0.05
2-Ethylhexanol%	0.1max	0.06
Flash Point °C (open cup)	170 min	174
Color (Pt-Co)	30 max	25

**ANALYSER:** ZHANG JIANMEI



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# CERTIFICATE OF ANALYSIS

**Commodity :** Dioctyl Maleate

**Inspect Date:** 25<sup>th</sup>, FEB , 2013

**Cas No.** 142-16-5

**Batch No.** 130225

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.4
DOF Content (GC) %	3 max	0.9
Total Ester Content (GC)%	99 min	99.3
Moisture %	0.1max	0.03
Acid Value (mgKOH/g)	0.1 max	0.07
2-Ethylhexanol%	0.1max	0.05
Flash Point °C (open cup)	170 min	174
Color (Pt-Co)	30 max	25

**ANALYSER:** ZHANG JIANMEI



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# CERTIFICATE OF ANALYSIS

**Commodity :** Dioctyl Maleate

**Inspect Date:** 1<sup>st</sup>, MAR , 2013

**Cas No.** 142-16-5

**Batch No.** 130301

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.3
DOF Content (GC) %	3 max	0.9
Total Ester Content (GC)%	99 min	99.2
Moisture %	0.1max	0.07
Acid Value (mgKOH/g)	0.1 max	0.06
2-Ethylhexanol%	0.1max	0.06
Flash Point °C (open cup)	170 min	172
Color (Pt-Co)	30 max	25

**ANALYSER:** ZHANG JIANMEI





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## CERTIFICATE OF ANALYSIS

**Commodity :** Dioctyl Maleate

**Inspect Date:** 5<sup>th</sup>, MAR , 2013

**Cas No.** 142-16-5

**Batch No.** 130305

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.6
DOF Content (GC) %	3 max	0.8
Total Ester Content (GC)%	99 min	99.4
Moisture %	0.1max	0.03
Acid Value (mgKOH/g)	0.1 max	0.07
2-Ethylhexanol%	0.1max	0.04
Flash Point °C (open cup)	170 min	174
Color (Pt-Co)	30 max	25

**ANALYSER:** ZHANG JIANMEI



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# CERTIFICATE OF ANALYSIS

**Commodity :** DOM

**Inspect Date:** 11<sup>TH</sup>, MAR , 2013

**Cas No.** 142-16-5

**Batch No.** 130311

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.6
DOF Content (GC) %	3 max	0.9
Total Ester Content (GC)%	99 min	99.5
Moisture %	0.1max	0.05
Acid Value (mgKOH/g)	0.1 max	0.08
2-Ethylhexanol%	0.1max	0.05
Flash Point °C (open cup)	170 min	173
Color (Pt-Co)	30 max	25

**ANALYSER:** ZHANG JIANMEI



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# CERTIFICATE OF ANALYSIS

**Commodity :** Dioctyl Maleate

**Inspect Date:** 16<sup>th</sup>, MAR , 2013

**Cas No.** 142-16-5

**Batch No.** 130316

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.2
DOF Content (GC) %	3 max	1.0
Total Ester Content (GC)%	99 min	99.2
Moisture %	0.1max	0.06
Acid Value (mgKOH/g)	0.1 max	0.07
2-Ethylhexanol%	0.1max	0.04
Flash Point °C (open cup)	170 min	172
Color (Pt-Co)	30 max	25

**ANALYSER:** ZHANG JIANMEI



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# CERTIFICATE OF ANALYSIS

**Commodity :** Dioctyl Maleate

**Inspect Date:** 22<sup>nd</sup>, MAR , 2013

**Cas No.** 142-16-5

**Batch No.** 130322

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.6
DOF Content (GC) %	3 max	0.8
Total Ester Content (GC)%	99 min	99.4
Moisture %	0.1max	0.03
Acid Value (mgKOH/g)	0.1 max	0.05
2-Ethylhexanol%	0.1max	0.06
Flash Point °C (open cup)	170 min	175
Color (Pt-Co)	30 max	25

**ANALYSER:** ZHANG JIANMEI



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**CERTIFICATE OF ANALYSIS**

**Commodity :** Dicotyl Maleate

**Inspect Date:** 30<sup>th</sup>, MAR , 2013

**Cas No.** 142-16-5

**Batch No.** 130330

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.7
DOF Content (GC) %	3 max	0.8
Total Ester Content (GC)%	99 min	99.5
Moisture %	0.1max	0.03
Acid Value (mgKOH/g)	0.1 max	0.06
2-Ethylhexanol%	0.1max	0.03
Flash Point °C (open cup)	170 min	174
Color (Pt-Co)	30 max	25

**ANALYSER: ZHANG JIANMEI**



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**CERTIFICATE OF ANALYSIS**

**Commodity :** Dioctyl Maleate

**Inspect Date:** 9<sup>th</sup>, APR , 2013

**Cas No.** 142-16-5

**Batch No.** 130409

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.6
DOF Content (GC) %	3 max	0.7
Total Ester Content (GC)%	99 min	99.3
Moisture %	0.1max	0.06
Acid Value (mgKOH/g)	0.1 max	0.08
2-Ethylhexanol%	0.1max	0.04
Flash Point °C (open cup)	170 min	173
Color (Pt-Co)	30 max	25

**ANALYSER:** ZHANG JIANMEI



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# CERTIFICATE OF ANALYSIS

**Commodity :** Dioctyl Maleate

**Inspect Date:** 19<sup>th</sup>, APR , 2013

**Cas No.** 142-16-5

**Batch No.** 130419

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.4
DOF Content (GC) %	3 max	0.8
Total Ester Content (GC)%	99 min	99.2
Moisture %	0.1max	0.03
Acid Value (mgKOH/g)	0.1 max	0.06
2-Ethylhexanol%	0.1max	0.06
Flash Point °C (open cup)	170 min	172
Color (Pt-Co)	30 max	25

**ANALYSER:** ZHANG JIANMEI



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# CERTIFICATE OF ANALYSIS

**Commodity :** Dioctyl Maleate

**Inspect Date:** 28<sup>th</sup>, APR , 2013

**Cas No.** 142-16-5

**Batch No.** 130428

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.3
DOF Content (GC) %	3 max	0.9
Total Ester Content (GC)%	99 min	99.2
Moisture %	0.1max	0.05
Acid Value (mgKOH/g)	0.1 max	0.05
2-Ethylhexanol%	0.1max	0.06
Flash Point °C (open cup)	170 min	174
Color (Pt-Co)	30 max	25

**ANALYSER:** ZHANG JIANMEI





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# CERTIFICATE OF ANALYSIS

**Commodity :** Dioctyl Maleate

**Inspect Date:** 11<sup>th</sup>, MAY , 2013

**Cas No.** 142-16-5

**Batch No.** 130511

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.7
DOF Content (GC) %	3 max	0.7
Total Ester Content (GC)%	99 min	99.4
Moisture %	0.1max	0.06
Acid Value (mgKOH/g)	0.1 max	0.08
2-Ethylhexanol%	0.1max	0.07
Flash Point °C (open cup)	170 min	172
Color (Pt-Co)	30 max	25

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# CERTIFICATE OF ANALYSIS

**Commodity :** Dioctyl Maleate

**Inspect Date:** 23<sup>th</sup>, MAY , 2013

**Cas No.** 142-16-5

**Batch No.** 130523

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.4
DOF Content (GC) %	3 max	0.8
Total Ester Content (GC)%	99 min	99.2
Moisture %	0.1max	0.07
Acid Value (mgKOH/g)	0.1 max	0.05
2-Ethylhexanol%	0.1max	0.05
Flash Point °C (open cup)	170 min	173
Color (Pt-Co)	30 max	25

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# CERTIFICATE OF ANALYSIS

**Commodity :** DOM

**Inspect Date:** 2<sup>nd</sup>, JUN , 2013

**Cas No.** 142-16-5

**Batch No.** 130602

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.6
DOF Content (GC) %	3 max	0.9
Total Ester Content (GC)%	99 min	99.5
Moisture %	0.1max	0.06
Acid Value (mgKOH/g)	0.1 max	0.08
2-Ethylhexanol%	0.1max	0.04
Flash Point °C (open cup)	170 min	173
Color (Pt-Co)	30 max	25

**ANALYSER:** ZHANG JIANMEI



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# CERTIFICATE OF ANALYSIS

**Commodity :** Dioctyl Maleate

**Inspect Date:** 18<sup>th</sup>, JUN, 2013

**Cas No.** 142-16-5

**Batch No.** 130618

ITEM	STANDARD	RESULT
DOM Content (GC) %	98 min	98.5
DOF Content (GC) %	3 max	0.9
Total Ester Content (GC)%	99 min	99.4
Moisture %	0.1max	0.03
Acid Value (mgKOH/g)	0.1 max	0.08
2-Ethylhexanol%	0.1max	0.04
Flash Point °C (open cup)	170 min	172
Color (Pt-Co)	30 max	25

**ANALYSER:** ZHANG JIANMEI