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RIFA CO.,LTD.
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YEONGDEUNGPO-GU
South Korea

2015-12-03
E-CMI/Q
Isocyanate & Precursors
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Ref. 7984879696125
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Inspection Certificate 3.1 according to EN 10204

Ammonium chloride S
food/pharma grade
25KG plastic bags
Purchase Order/Customer Product#
RIFA20151106
00000000050176263

Material 50176263
Order 6003718166 000010
Delivery 3095559207 000010
Lot 33114809T0
Lot/Qty 17100.000 KG
Total 17100.000 KG
Transport MEDU2046132

Best before / Re-test-Date (MM-YYYY): 12-2016
Product release-Date (DD-MM-YYYY): 02-12-2015

Property	Limit	Unit	Result	Test Method
Appearance of sol.	equal		equal	EurPh-meth.
Acidity/Alkalinity	equal		equal	EurPh-meth.
Thiocyanat	equal		equal	US-Ph-meth.
Bromides/Iodides	equal		equal	EurPh-meth.
pH(5%, 20°C)	4.6 - 6.0		5.0	US-Ph-meth.
NH4Cl	min. 99.7	g/100 g	99.9	volumetric
Ash	max. 0.05	g/100 g	0.04	ICP-OES
Sulfated ash	max. 0.10	g/100 g	< 0.10	EurPh-meth.
residue of ignition	max. 0.10	g/100 g	< 0.05	US-Ph-meth.
NaCl	max. 0.05	g/100 g	0.04	ICP-OES
H2O	max. 0.10	g/100 g	0.04	Karl Fischer
loss on drying	max. 1.0	g/100 g	< 0.2	EurPh-meth.
loss on drying	max. 0.5	g/100 g	< 0.1	US-Ph-meth.
As	max. 1	mg/kg	< 1	ICP-OES
Ca	max. 10	mg/kg	< 10	ICP-OES
Cd	max. 1	mg/kg	< 1	ICP-OES
Fe	max. 3.0	mg/kg	0.3	ICP-OES
Hg	max. 0.1	mg/kg	< 0.1	ICP-OES
Pb	max. 1	mg/kg	< 1	ICP-OES
heavy metals (Pb)	max. 10	mg/kg	< 10	EurPh-meth.
sulfate cont.	max. 150	mg/kg	< 100	ICP-AES

Product fulfils the requirements of the German 'Aromenverordnung', 2006 edition and the purity criteria for food additives set by the Joint (FAO/WHO) Expert Committee on Food Additives (JECFA) in the Co-dex Alimentarius as well as the one contained in the Food Chemical Codex FCC V. Ammonium chloride fulfils also

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.