CERTIFICATE OF ANALYSIS

BASELINE® Ammonia Solution

1A	PRODUCT NU	JMBER: \$020701 (BA-07) LOT NU	JMBER: 7208050	ASSAY (N	IH ₃ , w/w): 20	%	
2A 3 Li 4 Be < 1 < 5	average of three al evaporated to dryne	liquots subsampled from tess, the resulting residue is	three samples represen reconstituted in a small	ample preconcentration. The rest entative of the lot. The samples a Il volume of 2% SEASTAR [™] BAS better clean-room conditions. F	are slowly SELINE ®	4A 5A	6A 7A	
11 Na 12 Mg		I by *), the acid samples a deviation of the blank are sh 5B 6B		y injected into the ICP-MS. Value value is subtracted. 8 1B	es below 3 13 A < 10 2B			
19 K 20 C < 10	21 Sc 22 Ti	23 V 24 Cr 2 < 5	25 Mn 26 Fe 27 < 5 < 10	27 Co 28 Ni 29 Cu < 1 < 5 < 5	30 Zn 31 G	a 32 Ge 33 A < 10	s 34 Se < 50	
37 Rb 38 S	39 Y 40 Zr < 1 < 1	41 Nb 42 Mo	44 Ru 45 < 10	45 Rh 46 Pd 47 Ag < 1 < 20 < 1	48 Cd 49 II < 1 < 1	50 Sn 51 S < 5 < 10	b 52 Te < 1	
55 Cs 56 Ba	57 La 72 Hf < 0.1 < 0.1	73 Ta 74 W 7	75 Re < 1	78 Pt 79 Au < 1 < 5	80 Hg 81 T < 160 < 1	82 Pb 83 E < 2 < 0.1	Si .	

ALL VALUES ARE REPORTED IN PARTS PER TRILLION (PPT)

KEV	(1)	Atomio Number
<u>KEY</u>		Atomic Number
(1) (2)	(2)	Elemental Symb
(3)	(3)	Concentration (r
(4)	, ,	in ppt)
	(4)	1 Standard Devi

al Symbol ration (mean ot)
ard Deviation

58 Ce	59 Pr	60 Nd	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu
< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
90 Th		92 U										
< 0.1		< 0.1										
< 0.1		< 0.1	-									

MH₃ (20 - 22%): Properties

Molar Mass: 17.03g/mol

Density: 0.92 g/ml

Molarity: 11 moles/litre

Normality: 11 moles/litre

Release Date: Jur Expiry Date: Jur

June 26, 2008

June 26, 2011



(N=3)

Dr. B. McKelvey QA/QC Manager



Product Integrity:

Based on extensive testing results, SEASTAR CHEMICALS INC have found our products, unopened and sealed, maintain the certified integrity, or product quality, for a minimum of three years under the following conditions:

- Stored at room temperature, maximum range 15°C (59°F) to 25°C (77°F).
- Minimum exposure to light.
- For limited time, storage/transport temperature range 5°C (41°F) to 35°C (95°F)

Upon opening the product, the product's integrity will depend on proper handling and exposure to contaminants. The product has been bottled under CLASS 100 clean room conditions, to maintain the certified quality it should be used under these conditions. Furthermore to reduce trace metal contamination, the inner pack of plastic bags and bottle should be opened under CLASS 100 particle conditions to maintain the integrity of the product. The use of plastic gloves, hair net and a clean room suit is also advised.

Safety:

PRIOR to opening or storing this product be sure to consult the Material Safety Data Sheet (MSDS) Section 7 Handling and Storage to ensure safe storage and handling with regards to this hazardous material. This information must be understood prior to its use or storage.

SAFETY HANDLING NOTES: Consult your MSDS, PRIOR to handling these materials. Use proper safety apparel according to the recommendations of the MSDS. Exposure controls and personal protection should include: a properly functioning fume hood, protection for eyes (safety glasses), hands (chemically compatible gloves), feet (chemically compatible boots) and exposed skin (splash protection and a chemically compatible apron). All of these items must conform to local/regional/national regulatory requirements.

Dr. B. McKelvey QA/QC Manager

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