CERTIFICATE OF ANALYSIS BASELINE[®] Ammonia Solution

			JCT NU	MBER:	S02070)1	LOT NUMBER: 7216050					ASSAY (NH ₃ , w/w): 21%					
3 Li < 0.01	2A 4 Be < 0.05	average evaporat	of three ali ed to dryne	determined quots subsa ss. The resu ogen Peroxi	ampled fron Ilting residu	n three sam e is reconst	ples repres	sentative of mall volume	the lot. The of SEASTA	e samples a ∖R [™] BASEL	are slowly _INE [®] 2%	3A	4A	5A	6A	7A	
11 Na < 10	12 Mg < 0.5			s (indicated l Indard devia 5B							IS. Values 2B	13 AI < 10					
19 K < 1	20 C a < 10	21 Sc < 0.01		23 V < 0.5	24 Cr < 0.2	25 M n < 0.02	26 Fe < 0.5	27 Co < 0.02		29 Cu < 0.5	<mark>30 Z</mark> n < 1	<mark>31 G</mark> a < 0.01	<mark>32 Ge</mark> < 0.01	33 As < 0.5	34 Se < 1		
37 Rb < 0.01	38 Sr < 0.05	39 Y < 0.01	40 Z r < 0.01	41 Nb < 0.01	42 Mo < 0.05		44 Ru < 0.01	45 Rh < 0.01	46 Pd < 0.1	47 Ag < 0.01	48 Cd < 0.02	<mark>49 In</mark> < 0.01	50 Sn < 0.1	51 Sb < 0.01	52 Te < 0.05		
55 Cs < 0.01	56 B a < 0.1	57 La < 0.01	72 Hf < 0.1	73 Ta	74 W < 0.1	75 Re < 0.01			78 Pt < 0.1	79 Au < 0.5	80 Hg < 200	<mark>81 TI</mark> < 0.01	82 Pb < 0.02	83 Bi < 0.1			
		1.00															

ALL VALUES ARE REPORTED IN PARTS PER TRILLION (PPT)

KEY		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
(3) (4)	(2) Elemental Symbol(3) Concentration (mean	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	in ppt) (4) 1 Standard Deviation (N=3)	90 Th < 0.01	L.	92 U < 0.01	1										

Bregtenn

QA & RA Manager

Greg Henson

<u>NH₃ (20 - 22%): Properties</u> Molar Mass: 17.03g/mol Density: 0.92 g/ml Molarity: 11 moles/litre Normality: 11 moles/litre

ml es/litre es/litre Release Date: Expiry Date: June 08, 2016 June 08, 2019

BASELINE

IN SEASTAR CHEMICALS INC



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.

Bregterin

Greg Henson QA & RA Manager

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