CERTIFICATE OF ANALYSIS BASELINE[®] Hydrochloric Acid

1A	"	RODU		IBER: S	6 02040 1		LOT NI	JMBER	: 4208	060	4	ASSAY (HCI, w/	w): 339	%		
3 Li < 1	2A 4 Be < 5	4 Be < 5 Be < 5 Be overage of three aliquots subsampled from three samples representative of the lot. The samples are slowly evaporated to dryness, the resulting residue is reconstituted in a small volume of 2% SEASTAR [™] BASELINE [®] Sitric Acid. Operations are conducted under Class 100 particle or better clean-room conditions. For volatile															
11 Na < 5	< 5	times the 3B	standard do 4B	eviation of th 5B	ne blank are 6B	shown with 7B	"<", no blan	k value is su 8	ubtracted.	1B	2B	13 AI < 10					
19 K < 10	20 C a < 10	21 Sc < 1	22 Ti < 10	< 1	24 Cr < 10	25 M n < 2	26 Fe < 10	27 Co	< 10	29 C u < 3	< 5	31 Ga < 1		33 As < 20	34 Se < 50		
37 Rb < 1	38 Sr < 1	39 Y < 0.1	40 Zr < 1	41 Nb < 1	42 Mo < 5		44 Ru < 10	45 Rh < 1	46 Pd < 10	47 Ag < 5	48 Cd < 0.1	49 In < 0.1	50 Sn < 10	51 Sb < 20	52 Te < 1		5
55 Cs < 0.05	56 Ba < 1	57 La < 0.05	72 Hf < 0.05	73 Та < 20	74 W < 5	75 Re < 0.1			78 Pt < 1	79 Au < 10	80 Hg < 5	81 TI < 0.1	82 Pb < 1	83 Bi < 0.05			

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
$ \begin{array}{c} (1) (2) \\ (3) \\ (4) \end{array} $ (4)		< 0.05	< 0.05	< 0.05		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
) in ppt)	90 Th	<u> </u>	92 U	-										
	(4) 1 Standard Deviation (N=3)	< 0.05		< 0.01			100								
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HCI (32 - 35%): Properties Molar Mass: 36.46g/mol Density: 1.17 g/ml Molarity: 11 moles/litre Normality: 11 moles/litre

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Release Date: Expiry Date: October 16, 2008 October 16, 2011

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 $5^{\circ}C$ (41°F) to $35^{\circ}C$ (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.

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