CERTIFICATE OF ANALYSIS

BASELINE® Nitric Acid

| | PRODUCT NUMBER: 01 | | | | LOT NUMBER: 1204080 | | | | | | ASSAY: 70% | | | | | |
|----------------------|--|--|---|--|-------------------------------------|--|------------------------------|---|--|--------------------|---------------|--|---|---|----------|----------|
| 2A 4 Be <5 | Most elements are determined by magnetic sector ICP-MS using sample preconcentration. The results are an average of three aliquots subsampled from three samples representative of the lot. The samples are slow ly evaporated to dryness, the resulting residue is reconstituted in a small volume of 2% SEASTAR™ BASELINE® | | | | | | | | | | | 4A | 5A | 6A | 7A | |
| 12 Mg <5 20 Ca | (indicated | by *), the | acid sample | es are dilut are show n | ed then dire w ith "<", no 7B | ctly injected blank value | d into the IC is subtract | P-MS. Valu ed. | | | 13 AI <10 | 32 Ge | 33 As | 34 Se | | |
| <20 38 Sr <1 | <1 39 Y <1 | <10 40 Zr <1 | <1 41 Nb <1 | <10 42 Mo <1 | <2 | <20 44 Ru <10 | <1 45 Rh <1 | <10 46 Pd <10 | <3 47 Ag <2 | <20 48 Cd <1 | <1 49 In <1 | <1 50 Sn <20 | <10 51 Sb <10 | <20 52 Te <1 | | |
| 56 Ba | 57 La <0.05 | 72 Hf <0.05 | 73 Ta <10 | 74 W | 75 Re <1 | | | 78 Pt | 79 Au <10 | 80 *Hg <100 | 81 TI <0.1 | 82 Pb <1 | 83 Bi <0.1 | | | |
| | 4 Be <5 12 Mg <5 20 Ca <20 38 Sr <1 56 Ba | 2A 4 Be average of evaporate Nitric Acid (indicated standard of 3B) 20 Ca 21 Sc <20 <1 38 Sr 39 Y <1 56 Ba 57 La | 2A 4 Be average of three alice evaporated to drynes Nitric Acid. Operation (indicated by *), the standard deviation of 3B 4B 20 Ca 21 Sc 22 Ti < 20 <1 <10 38 Sr 39 Y 40 Zr <1 <1 56 Ba 57 La 72 Hf | 2A 4 Be average of three aliquots subsate vaporated to dryness, the result Nitric Acid. Operations are conditional (indicated by *), the acid sample standard deviation of the blank at 3B 4B 5B 20 Ca 21 Sc 22 Ti 23 V < 20 < 1 < 10 < 1 38 Sr 39 Y 40 Zr 41 Nb < 1 < 1 < 1 56 Ba 57 La 72 Hf 73 Ta | 2A 4 Be | A Be average of three aliquots subsampled from three same evaporated to dryness, the resulting residue is reconst Nitric Acid. Operations are conducted under Class 10 (indicated by *), the acid samples are diluted then direst standard deviation of the blank are shown with "<", no 3B 4B 5B 6B 7B 20 Ca 21 Sc 22 Ti 23 V 24 Cr 25 Mn < 20 < 1 < 10 < 1 < 10 < 2 38 Sr 39 Y 40 Zr 41 Nb 42 Mo < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < | 4 Be | A Be average of three aliquots subsampled from three samples representative of evaporated to dryness, the resulting residue is reconstituted in a small volume Nitric Acid. Operations are conducted under Class 100 or better clean-room (indicated by *), the acid samples are diluted then directly injected into the IC standard deviation of the blank are shown with "<", no blank value is subtracted as 3B 4B 5B 6B 7B 8 20 Ca 21 Sc 22 Ti 23 V 24 Cr 25 Mn 26 Fe 27 Co <20 <1 <10 <10 <2 <20 <1 <10 <10 <10 <10 <10 <10 <10 <10 <10 | A Be average of three aliquots subsampled from three samples representative of the lot. The evaporated to dryness, the resulting residue is reconstituted in a small volume of 2% SEA Nitric Acid. Operations are conducted under Class 100 or better clean-room conditions. (indicated by *), the acid samples are diluted then directly injected into the ICP-MS. Value standard deviation of the blank are shown with "<", no blank value is subtracted. 3B 4B 5B 6B 7B 8 20 Ca 21 Sc 22 Ti 23 V 24 Cr 25 Mn 26 Fe 27 Co 28 Ni < 20 < 1 < 10 < 10 < 10 < 10 < 10 < 10 | A Be | A Be | A Be of three aliquots subsampled from three samples representative of the lot. The samples are slow by evaporated to dryness, the resulting residue is reconstituted in a small volume of 2% SEASTAR™ BASELINE® Nitric Acid. Operations are conducted under Class 100 or better clean-room conditions. For volatile elements of the lot. The samples are slow by evaporated to dryness, the resulting residue is reconstituted in a small volume of 2% SEASTAR™ BASELINE® Nitric Acid. Operations are conducted under Class 100 or better clean-room conditions. For volatile elements of the lot. The samples are slow by sevaporated to dryness, the resulting residue is reconstituted in a small volume of 2% SEASTAR™ BASELINE® Nitric Acid. Operations are conducted under Class 100 or better clean-room conditions. For volatile elements of the lot. The samples are slow by sevaporated to dryness, the resulting residue is reconstituted in a small volume of 2% SEASTAR™ BASELINE® Nitric Acid. Operations are conducted under Class 100 or better clean-room conditions. For volatile elements of the lot. The samples are slow by sevaporated to dryness, the results are an average of three aliquots subsampled from three samples representative of the lot. The samples are slow by sevaporated to dryness, the results are an average of three aliquots subsampled from three samples representative of the lot. The samples are slow by sevaporated to dryness, the results are an average of three aliquots subsampled from three samples representative of the lot. The samples are slow by sevaporated to dryness, the results are an average of three aliquots subsampled from three samples representative of the lot. The samples are slow by sevaporated to dryness, the results are an average of three aliquots average of three aliquots average of three aliquots average of three aliquots are slow by sevaporated to dryness, the results are an average of three aliquots are slow by sevaporated to dryness, the results are an average of three aliquots are slow by sevaporated to dryn | A Be | A Be average of three aliquots subsampled from three samples representative of the lot. The samples are slow by evaporated to dryness, the resulting residue is reconstituted in a small volume of 2% SEASTAR™ BASELINE® Nitric Acid. Operations are conducted under Class 100 or better clean-room conditions. For volatile elements (indicated by *), the acid samples are diluted then directly injected into the ICP-MS. Values below 3 times the standard deviation of the blank are shown with "<", no blank value is subtracted. 38 4B 5B 6B 7B 8 1B 2B 20 Ca 21 Sc 22 Ti 23 V 24 Cr 25 Mn 26 Fe 27 Co 28 Ni 29 Cu 30 Zn 31 Ga 32 Ge 33 As < 20 <1 <10 <10 <10 <10 <10 <10 <10 <10 <10 | 2A 4 Be | 2A 4 Be |

ALL VALUES ARE REPORTED IN PARTS PER TRILLION (PPT)

KEY

- (1) (2)
- (3) (4)
- (1) Atomic Number
- (2) Elemental Symbol(3) Concentration (mean
- in ppt)
- (4) 1 Standard
 Deviation n=3)

| 58 Ce <0.05 | 59 Pr <0.05 | 60 Nd <0.05 | Tin. | 62 Sm <0.01 | 63 Eu <0.01 | 64 Gd <0.01 | 65 Tb <0.01 | 66 Dy <0.01 | 67 Ho <0.01 | 68 Er <0.01 | 70 Yb <0.01 | 71 Lu <0.01 |
|--------------------|--------------------|--------------------|------|--------------------|----------------|--------------------|--------------------|--------------------|----------------|----------------|--------------------|--------------------|
| 90 Th <0.05 | 1 | 92 U <0.01 | | | | | | l. | | | | |



B Mc Kelvey Dr. B. McKelvey QA/QC Manager Release Date: September 7, 2004 Expiry Date: September 7, 2007



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.

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.

A further note 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.

Appropriate safety precautions must be taken as well as wearing the required safety apparel. A properly functioning fumehood, protection for eyes, hands, feet and exposed skin must also be worn. All of these items must conform to local/regional/national regulatory requirements.

Dr. B. McKelvey QA/QC Manager

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