CERTIFICATE OF ANALYSIS

BASELINE® Hydrofluoric Acid

1A] P	RODUC	T NUM	BER: B	A-05		OT NU	MBER:	52061	11		ASSAY	(HF, w	/w): 4	9%	[
3 Li <1		average evaporate Nitric Aci elements	of three ali ed to drynes d. Operation (indicated	quots subsass, the resulons are con by *), the a	by magnetic ampled fron ting residue ducted und cid samples ne blank are	n three sam is reconstitu er Class 10 s are diluted	nples repres uted in a sm 00 particle of then direc	sentative of all volume or or better cle tly injected	the lot. The of 2% SEAS ean-room co into the ICF	e samples a FAR [™] BA⊆ onditions. F	are slowly SELINE [®] or volatile	3A 5 B <10	4A	5A	6A	7A	
<10 19 K	<5 20 Ca <10	3B	4B	5B	6B 24 Cr <10	7B	26 Fe <10	8		1B 29 Cu <10	2B 30 Zn <5	<10 31 Ga <1	32 Ge <1	33 As <10	34 Se <50		
37 Rb	38 Sr <1	39 Y <0.5	40 Zr <10	41 Nb <5	42 M o <5	t	44 Ru <1	45 Rh	46 Pd <10	47 Ag <1	48 Cd <0.1	49 In <0.1	50 Sn <10	51 Sb <10	52 Te <1		4
55 Cs <0.5	56 Ba <5	57 La <0.1	72 Hf <1	73 Ta <20	74 W <10	75 Re <0.1			78 Pt <10	79 Au <10	80 Hg <50	81 TI <0.1	82 Pb <1	83 Bi <0.1			

ALL VALUES ARE REPORTED IN PARTS PER TRILLION (PPT)

NE I	. (
(1) (2)	(2
(3)	(3
(4)	

(1) Atomic Number

2) Elemental Symbol3) Concentration (mean

in ppt)

(4) 1 Standard Deviation (N=3)

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	i.	<0.1										



HF (47 - 51%): Properties

Molar Mass: 20.01g/mol
Density: 1.18 g/ml
Molarity: 29 moles/litre

Normality: 29 moles/litre

Release Date:

April 18, 2007

Expiry Date:

April 18, 2010





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.

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