



EMD Chemicals Inc.
 480 S. Democrat Road
 Gibbstown, NJ 08027
 Phone 856-423-6300
 Fax 856-423-4389

Name: Sulfuric Acid
 OmniTrace Ultra(TM) High Purity Acid

Formula: H₂SO₄

Item Number: SX1248-1, SX1248-6, SX1248-7

Formula Wt: 98.08

Lot Number: 46191

Data Order No: 000408248

CHARACTERISTIC	REQUIREMENT		RESULTS	UNITS
	Min.	Max.		
Assay	93	98	95	%
Appearance			Passes test	
Chloride (Cl)		0.2	< 0.2	ppm
Nitrate (NO ₃)		0.5	< 0.5	ppm
Aluminum (Al)		50	< 20	pg/g
Antimony (Sb)		50	< 10	pg/g
Arsenic (As)		500	< 500	pg/g
Barium (Ba)		10	< 10	pg/g
Beryllium (Be)		10	< 5	pg/g
Bismuth (Bi)		10	< 1	pg/g
Cadmium (Cd)		10	< 1	pg/g
Calcium (Ca)		100	< 50	pg/g
Cerium (Ce)		10	< 0.1	pg/g
Cesium (Cs)		10	< 1	pg/g
Chromium (Cr)		10	< 10	pg/g
Cobalt (Co)		10	< 1	pg/g
Copper (Cu)		10	< 5	pg/g
Dysprosium (Dy)		10	< 0.1	pg/g
Erbium (Er)		10	< 0.1	pg/g
Europium (Eu)		10	< 0.1	pg/g
Gadolinium (Gd)		10	< 0.1	pg/g
Gallium (Ga)		10	< 1	pg/g
Germanium (Ge)		100	< 100	pg/g
Hafnium (Hf)		10	< 0.1	pg/g
Holmium (Ho)		10	< 0.1	pg/g
Indium (In)		10	< 1	pg/g
Iron (Fe)		50	< 50	pg/g
Lanthanum (La)		10	< 1	pg/g
Lead (Pb)		10	< 5	pg/g
Lithium (Li)		10	< 5	pg/g
Lutetium (Lu)		10	< 0.1	pg/g
Magnesium (Mg)		50	< 10	pg/g
Manganese (Mn)		10	< 1	pg/g

Mercury (Hg)		100	< 100	pg/g
Molybdenum (Mo)		10	< 10	pg/g
Neodymium (Nd)		10	< 0.1	pg/g
Nickel (Ni)		50	< 20	pg/g
Niobium (Nb)		10	< 1	pg/g
Palladium (Pd)			< 10	pg/g
Platinum (Pt)			< 1	pg/g
Potassium (K)		50	< 50	pg/g
Praseodymium (Pr)		10	< 0.1	pg/g
Rhodium (Rh)		50	< 1	pg/g
Rubidium (Rb)		10	< 1	pg/g
Samarium (Sm)		10	< 0.1	pg/g
Scandium (Sc)		10	< 5	pg/g
Selenium (Se)		500	< 500	pg/g
Silver (Ag)		50	< 2	pg/g
Sodium (Na)		50	< 50	pg/g
Strontium (Sr)		10	< 1	pg/g
Tantalum (Ta)			< 10	pg/g
Tellurium (Te)		100	< 10	pg/g
Terbium (Tb)		10	< 0.1	pg/g
Thallium (Tl)		10	< 1	pg/g
Thorium (Th)		10	< 0.1	pg/g
Thulium (Tm)		10	< 0.1	pg/g
Tin (Sn)		50	< 50	pg/g
Titanium (Ti)		50	< 50	pg/g
Tungsten (W)		10	< 5	pg/g
Uranium (U)		10	< 0.1	pg/g
Vanadium (V)		10	< 5	pg/g
Ytterbium (Yb)		10	1	pg/g
Yttrium (Y)		10	< 1	pg/g
Zinc (Zn)		50	< 20	pg/g
Zirconium (Zr)		10	< 5	pg/g



Charles M. Wilson,
Quality Assurance Manager

Release Date: 3/13/2007

EMD Chemicals Inc.
(Formerly EM Science, A Division of EM Industries, Inc.)
An Affiliate of Merck KGaA, Darmstadt, Germany