Hydraulic Fracturing Fluid Product Component Information Disclosure

3/10/2013
3/12/2013
Texas
Webb
42-479-41987-00-00
Anadarko Petroleum Corporation
Briscoe Chupadera Ranch 14H
-99.95807500
28.19035300
NAD27
NO
6,133,423
0







Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Anadarko	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	94.02657	Not Provided
Sand (Proppant)	Cudd	Proppant					
			Silica Substrate	N/A	100.00000	5.51493	Not Provided
FR-60	Cudd	Friction Reducer					
			Non-Hazardous Ingredients	N/A	100.00000	0.04887	Not Provided
Hydrochloric Acid (7.5%)	Cudd	Acidizing					
			Hydrochloric Acid	7647-01-0	7.50000	0.02147	Not Provided
X-CIDE 750	Baker Add-Frac	Industrial Biocide					
			Tetrakis (hydroxymethyl) phosponium sulfate	55566-30-8	60.00000	0.02124	Not Provided
Hydrochloric Acid (15%)	Cudd	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.01121	Not Provided
l-24	Cudd	Inhibitor					
			Methanol	67-56-1	30.00000	0.00078	Not Provided
			Haloalkyl heteropolycycle salt	Proprietary	30.00000	0.00078	Not Provided
			Isopropanol	67-63-0	30.00000	0.00078	Not Provided
			Formamide	75-12-7	30.00000	0.00078	Not Provided
			Ethoxylated 4-Nonylphenol	26027-38-3	10.00000	0.00026	Not Provided
			Pine Oil	8002-09-3	5.00000	0.00013	Not Provided

			Propargyl alcohol	107-19-7	5.00000	0.00013	Not Provided
			Substituted alcohol	Proprietary	5.00000	0.00013	Not Provided
			Heavy Aromatic Naphtha	64742-94-5	5.00000	0.00013	Not Provided
			Naphthalene	91-20-3	1.00000	0.00003	Not Provided
			Benzyl Chloride	100-44-7	1.00000	0.00003	Not Provided
SCW-5277	Baker Add-Frac	Scale Inhibitor					
			Phosphonate Salt	Proprietary	5.00000	0.00053	Not Provided
Ingredients show	n above are subject to 29 C	FR 1910.1200(i) and a	ppear on Material Safety Data She	eets (MSDS). Ingredie	ents shown below are	Non-MSDS.	
		Other Chemicals					
			Ammonium Sulfate	7783-20-2			
			Tetrasodium Eethelenediaminetetraacetate	64-02-8			
			Aliphatic Hydrocarbon	64742-47-8			
			Sodium Chloride	7647-14-5			
			Propietary Polymer	Proprietary			
			Sodium Sulfate	7757-82-6			
			Anionic Polymer	Proprietary			
			Potassium Hydroxide	1310-58-3			
			Oxyalkylated Alcohol	68002-97-1			
			Modified Carboxylic Acid Polymer Salt	Proprietary			
			Polyglycol Ester	Proprietary			
			Water	7732-18-5			
			Sodium Bisulfite	7631-90-5			
			Polyol Ester	Proprietary			
			Water	7732-18-5			

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

^{*} Total Water Volume sources may include fresh water, produced water, and/or recycled water ** Information is based on the maximum potential for concentration and thus the total may be over 100%