

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Last Fracture Date	01/01/2012
State:	California
County:	Los Angeles
API Number:	403727124
Operator Name:	OXY USA Inc
Well Name and Number:	DOM-1
Longitude:	-118.243164
Latitude:	33.863524
Long/Lat Projection:	NAD27
Production Type:	Oil
True Vertical Depth (TVD):	10,885
Total Water Volume (gal)*:	143,892

### 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	Operator	Carrier	Water	7732-18-5	100.00%	81.00754%	
X-Cide 207	Baker Hughes	Biocide	2-Methyl-4-Isothiazolin-3-One	2682-20-4	5.00%	0.00008%	
			5-Chloro-2-Methyl-4-Isothiazolin-3-One	26172-55-4	10.00%	0.00016%	
			Crystalline Silica: Cristobalite	14464-46-1	1.00%	0.00002%	
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1.00%	0.00002%	
			Diatomaceous Earth, Calcined	91053-39-3	60.00%	0.00097%	
			Magnesium Chloride	7786-30-3	5.00%	0.00008%	
			Magnesium Nitrate	10377-60-3	10.00%	0.00016%	
Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3.00%	0.00451%	SmartCare Product
			Water	7732-18-5	97.00%	0.14580%	
High Perm CRB	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	60.00%	0.00162%	SmartCare Product
			Crystalline Silica Quartz	14808-60-7	30.00%	0.00081%	
Caustic Liquid, 25% Solution	Baker Hughes	Buffer	Sodium Hydroxide	1310-73-2	25.00%	0.02347%	
			Water	7732-18-5	75.00%	0.07041%	
BF-7L, Tote	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60.00%	0.69307%	SmartCare Product
			Potassium Hydroxide	1310-58-3	1.00%	0.01155%	
			Water	7732-18-5	60.00%	0.69307%	
XLW-56, 330 gal	Baker	Crosslinker	D-Glucitol	50-70-4	10.00%	0.06736%	

tote	Hughes						
			Glyoxal	107-22-2	30.00%	0.20208%	
			Sodium Hydroxide	1310-73-2	5.00%	0.03368%	
			Sodium Tetraborate	1330-43-4	10.00%	0.06736%	
GS-1L	Baker Hughes	Gel Stabilizer	Non-Hazardous Ingredient	Trade Secret	100.00%	0.47548%	
GLFC-1B	Baker Hughes	Gelling Agent	Alkanes / Alkenes	Multiple	45.00%	0.37717%	
			Guar Gum	9000-30-0	50.00%	0.41908%	
Mg Light, 30/50	Baker Hughes	Proppant	Magnesium Iron Silicate	1317-71-1	10.00%	1.33772%	
			Magnesium Silicate	1343-88-0	60.00%	8.02633%	
			Silicon Dioxide (Amorphous As Glass)	7631-86-9	40.00%	5.35089%	
SinterBlast Bauxite, 40/120, 3300#	Baker Hughes	Proppant	Alfa-Alumina	1344-28-1	100.00%	0.66846%	
			Hematite	1317-60-8	15.00%	0.10027%	
			Maghemite	1309-38-2	2.00%	0.01337%	
InFlo 75M, 330 gl tote	Baker Hughes	Surfactant	Citrus Terpenes	94266-47-4	30.00%	0.03646%	
			Isopropanol	67-63-0	30.00%	0.03646%	
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
			Crystalline Silica	14808-60-7			
			Cured Acrylic Resin	Trade Secret		0.0008102491%	
			Ether	Trade Secret		0.0243064610%	
			Ethylene Glycol Monobutyl Ether	111-76-2			
			Glycols	Trade Secret		0.0121532305%	
			Iron	7439-89-6			
			Poly (oxy-1,2-ethanediyl)	24938-91-8			
			Quaternary Ammonium Compounds bis[Hydrogenated Tallow Alkyl] Dimethyl Salts With Bentonite	68953-58-2			
			Sodium Bicarbonate	144-55-8			
			Sodium Chloride	7647-14-5			
			Sodium Sulfate	7757-82-6			
			Sodium Sulfite	7757-83-7			
			Sodium Thiosulfate	7772-98-7			
			Surfactant	Trade Secret		0.0607661525%	
			Water	7732-18-5		0.0364596915%	

\* 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%

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)