

Fracc Focus
Chemical Disclosure Registry
(e.g. XX-XXX-XXXXX-0000)

anga
America's
Natural Gas
Alliance

3.0. Schema

[illegible]

Total Slurry Mass (Lbs)

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
15% HCl	Basic Energy Services	Acid	Hydrochloric Acid	7647-01-0	15.00%	60,754	2.21349%	
15% HCl	Basic Energy Services	Acid	Water	7732-18-5	85.00%	344,272	12.54309%	
Ammonium Persulfate	Chemplex	Breaker	Ammonium Persulfate	7727-54-0	98.00%	1,833	0.06677%	
Fresh Water	Operator	Carrier Fluid	Water	7732-18-5	100.00%	311,185	11.33760%	
Proppant (Sand)	Basic Energy Services	Propping Agent	Crystalline Silica, quartz	14808-60-7	100.00%	1,898,695	69.17637%	
LGW-1	ACE	Gel	Distillates, Petroleum, Hydrotreated Light	6742-47-8	60.00%	35,338	1.30281%	
LGW-1	ACE	Gel	Gum Gum	9000-30-0	50.00%	29,799	1.08567%	
LGW-1	ACE	Gel	Surfactants	Proprietary	5.00%	2,980	0.10857%	
LGW-1	ACE	Gel	Organophilic Clay	Proprietary	5.00%	2,980	0.10857%	
SI-329	Colossal Chemical	Scale Inhibitor	Polycarboxylic acid, sodium salt	62601-60-9	26.00%	3,624	0.13202%	
SI-329	Colossal Chemical	Scale Inhibitor	Amino Tris(methylene phosphonic acid)	6419-19-8	52.00%	7,247	0.26404%	
Claybizer CSI	Colossal Chemical	Clay Stabilizer	Inorganic Salt	Proprietary	10.00%	1,611	0.05870%	
Claybizer CSI	Colossal Chemical	Clay Stabilizer	Inorganic Salt	Proprietary	5.00%	1,611	0.02935%	
Claybizer CSI	Colossal Chemical	Clay Stabilizer	Polysaccharide	Proprietary	Proprietary	VALUE!	VALUE!	
Claybizer CSI	Colossal Chemical	Clay Stabilizer	Water	7732-18-5	Proprietary	VALUE!	VALUE!	
BXL-4	ACE	Crosslinker	Sodium Metaborate	Proprietary	40.00%	7,423	0.27044%	
BXL-4	ACE	Crosslinker	Glycerol	56-81-5	30.00%	5,567	0.20283%	
BXL-4	ACE	Crosslinker	Water	7732-18-5	30.00%	5,567	0.20283%	
S-100	Colossal Chemical	Surfactant	Nonylphenol Ethoxlate	Proprietary	25.00%	3,128	0.11397%	
S-100	Colossal Chemical	Surfactant	Water	7732-18-5	100.00%	12,512	0.45588%	
S-100	Colossal Chemical	Surfactant	Methanol	67-56-1	10.00%	1,351	0.04539%	
Basic FR-EXTREME	Basic Energy Services	Friction Reducer	Distillates, Petroleum, Hydrotreated Light	64742-47-8	28.00%	661	0.02409%	
Basic FR-EXTREME	Basic Energy Services	Friction Reducer	Alcohols, C12-16, ethoxylated	68551-12-2	3.00%	71	0.00258%	
Basic FR-EXTREME	Basic Energy Services	Friction Reducer	C1-16 Alcohol Ethoxylated	68002-97-1	3.00%	71	0.00258%	
Basic FR-EXTREME	Basic Energy Services	Friction Reducer	Alcohols, C12-14, ethoxylated	68439-50-9	3.00%	71	0.00258%	
TAS-8	Rockwater Energy Solutions	Total Acidizing System	Glycolic acid	79-14-1	10.00%	222	0.00810%	
TAS-8	Rockwater Energy Solutions	Total Acidizing System	Choline chloride	000667-48-1	70.00%	1,556	0.05668%	
TAS-8	Rockwater Energy Solutions	Total Acidizing System	Surfactant blend	Proprietary	10.00%	222	0.00810%	
TAS-8	Rockwater Energy Solutions	Total Acidizing System	Alcohols	Proprietary	30.00%	667	0.02429%	
AI-150	Rockwater Energy Solutions	Acid Inhibitor	Isopropanol	67-63-0	5.00%	45	0.00165%	
AI-150	Rockwater Energy Solutions	Acid Inhibitor	Methanol	67-56-1	90.00%	815	0.02970%	
AI-150	Rockwater Energy Solutions	Acid Inhibitor	Propargyl Alcohol	107-19-7	5.00%	45	0.00165%	
AI-150	Rockwater Energy Solutions	Acid Inhibitor	Xylene	1330-20-7	5.00%	45	0.00165%	
AI-150	Rockwater Energy Solutions	Acid Inhibitor	Ethylbenzene	100-41-4	1.00%	9	0.00033%	
AI-150	Rockwater Energy Solutions	Acid Inhibitor	Imidazoles	61790-69-0	5.00%	45	0.00165%	
AI-150	Rockwater Energy Solutions	Acid Inhibitor	Alcohols, C7-9-ISO, C8-Rich	68526-83-0	5.00%	45	0.00165%	

** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary," "trade secret," and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(g) and Appendix D.

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ChemEOR	Patrick	Shuler	patrick.shuler@chemeor.com	909-632-8639
ChemPlex	Ed	Silano	ed.silano@solvay.com	325-207-2996
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