



Company: Heartland Energy Group, Ltd.

Product: Oil Safe AR®

### Green Frac Additive Scorecard

For all responses, Yes=1, No=0

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| 1  | Does the product contain any ingredient listed as an Extremely Hazardous Substance in Section 302 of the Emergency Planning and Community Right to Know Act (EPCRA)? (Please reference <a href="http://www.epa.gov/ceppo/pubs/title3.pdf">www.epa.gov/ceppo/pubs/title3.pdf</a> )                  | 0        |
| 2  | Does the product contain any ingredient listed as a Toxic Chemical in Section 313 of the Emergency Planning and Community Right To Know Act (EPCRA)? (Please use reference from #1 above)  | 0        |
| 3  | Does the product contain any ingredient listed as a Priority Pollutant under the Clean Water Act? (Please reference tab below labeled "Priority Pollutants")   | 0        |
| 4  | Does the product contain any ingredient listed by the EPA as a Persistent Bioaccumulative Toxin? (Please reference tab below labeled "PBT")  | 0        |
| 5  | Does the product contain any ingredient listed as a known carcinogen by the International Agency on the Research of Cancer, the US EPA (Group A and B1) or the National Toxicology Program? (Please reference tab below labeled "Carcinogens")   | 0        |
| 6  | Does either the primary or secondary DOT Hazard description include the word "Toxic" or the phrase "Environmentally Hazardous Substance"?  | 0        |
| 7  | Biodegradability - Is the product <20% biodegradable AND either <70% biodegradable in 28 days (OECD 301A or 301E) OR <60% biodegradable in 28 days (OECD 301B, 301C, 301D, 301F, 302B or 306)? (Note - Inorganic compounds will be excluded from this requirement and will be scored as a zero)    | 0        |
| 8  | Bioaccumulation - Does the product have a bioaccumulation value of log Pow >3?   | 0        |
| 9  | Toxicity - Does the product have an aquatic toxicity <10 mg/L (LC-50 or EC-50)? (Please reference species and note on tab below labeled "Aquatic Species")   | 0        |
| 10 | Does the product contain any ingredient in a concentration during use sufficient to cause it to be listed as a Contaminant under the Safe Drinking Water Act? (Please reference <a href="http://www.epa.gov/safewater/contaminants/index.html">www.epa.gov/safewater/contaminants/index.html</a> ) | 0        |
| 11 | Does the product contain any ingredient listed as a Hazardous Air Pollutant by the EPA? (Please reference <a href="http://www.epa.gov/ttn/atw/188polls.html">http://www.epa.gov/ttn/atw/188polls.html</a> )  | 0        |
| 12 | Does the product contain an ingredient that is listed as a confirmed endocrine disruptor by The Endocrine Society, the National Institute for Environmental Health or the International Programme on Chemical Safety? (Please reference tab below labeled "End. Disruptors")                       | 0        |
| 13 | Does the product contain an ingredient that is considered a developmental or reproductive toxin according to the State of California's Proposition 65? (Please reference tab below labeled "Devel. / Reprod.")   | 0        |
| 14 | Does the material safety data sheet for this product indicate that it is a Delayed (Chronic) Health Hazard?  | 0        |
|    | <b>Sum</b>   | <b>0</b> |