

Magellan by contract has 45 days to complete an additive request per your additive services contract. Each rate request requires a separate sheet. For example if you have another rate based on a different octane or season and it is the same chemical you will need another form filled out and submitted. We will advise you when the change is complete. This document will need to be emailed to: productservices@magellanlp.com Please attach a list of Magellan locations the additive will be deployed at and the product codes this change applies to. If you do not know this, then we can provide you your existing codes and locations. **Questions? Call: 918-574-7447**

Additive Name: _____ Manufactured by: _____

Submitted by: _____ Email: _____

Phone: _____ Date Submitted: _____

Does this rate change seasonally? Yes No If yes than what are the dates? _____

The required SDS sheet is attached? Yes No

Is the NFPA diamond stated on the MSDS? Yes No

Are GHS pictograms, signal words, and precautionary statements needed for tank labeling? Yes No

LAC or other minimum regulatory amount that can be injected into fuel in G/TG _____

Any maximum regulatory amount that can be injected into fuel in G/TG _____

Requested or target injection rate in 3 formats (if multiple rates by fuel qualities then specify each):

PPM _____ G/TG _____ ml/Gal _____

Vapor Pressure (mmHg) for the chemical @ 68°F _____ @100° F _____ psia @60° F _____

Relative Density @60°F _____ Lbs./gal Specific gravity@68°F (ASTM D891 or D4052) _____ g/cm³

Amount of Sulfur by mass added to the final volume of product at the specified injected rate _____ ppm

Total sulfur content of the additive in mg/kg _____ ppm Flash point _____ °F

At standard temperature 60° F, what is the volume correction factor in °F to convert it to standard volume? _____

Acid Number for additive (ASTM D1613) _____ mg KOH/g pH of 25% solution in water at 25°C _____

Oxidation Stability (ASTM D7545) _____ Shelf Life expected @125°F _____ days @30°F _____ days

Viscosity (cSt) of the Chemical @60°F _____ @-10°F _____ @-30°F _____

Attach a viscosity chart to this document. The goal is to show what temperatures the viscosity is below 375 cSt. Any particulate or crystallization observed at lower temperatures should be noted. State ASTM method used for cold flow properties. If there is an approved way to lower viscosity chemically, please note that as well.

Hazard Air Pollutants (HAP) in weight percent maximum needed below due to air permitting standards of storage

Chemical and its Constituent CAS Number as applicable	Weight %
Ethylbenzene 100-41-4	
Xylene, isomers 1330-20-7	
o-Xylene 95-47-6	
Cresol, Isomers 1319-77-3	
Cumene 98-82-8	
Toluene 108-88-3	
Napthalene 91-20-3	
Benzene 71-43-2	
Hexane 110-54-3	
2,2,4 Trimethylpentane 540-84-1	

As a condition of storage of the chemical outside it is recognized that water can be introduced into these chemicals because of the presence of humid air. With that in mind Magellan will be sampling these additives and checking for color, haze and pH. Please provide the following baseline information so that comparisons can be made and submit a picture of the additive in a clear glass container.

At manufacture is the chemical:

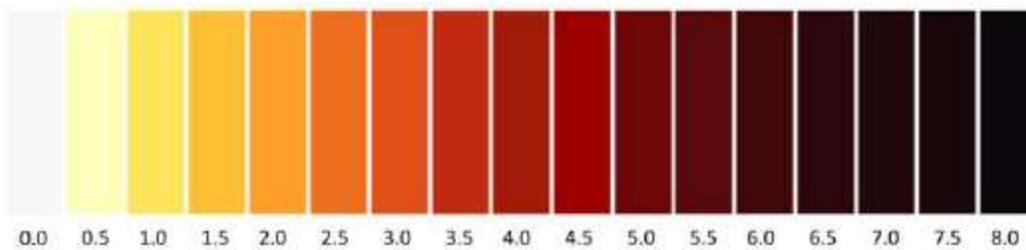
Bright and Clear? _____ Hazy? _____ Cloudy? _____

if no state what may be observed _____

Please rate the additive of the following color chart and attach a picture of the additive. Magellan will be sampling on delivery to see if it meets these below values.

Color? _____ At what color on the scale would the additive might not be effective? _____

Will the additive oxidize over time and reach a different color but still be effective? What is that color value? _____



Please mix the additive in a solution of 1-part water with 10-parts additive and shake vigorously for 1 minute then answer these questions about what is observed. Please attach a photo of additive in clear glass after shaking.

Is an emulsion formed? _____ Time elapsed for emulsion to separate _____

pH and appearance of separated water _____ color change on water or additive _____

is curdling or other debris formed (please specify if yes) _____

Magellan's additive systems use seals and coatings to protect from leaks. Understanding the compatibility of the additives with these materials is the basis of the following questions and some of those above.

Is the additive compatible with the following seal materials?

FFKM Yes _____ No _____

PTFE Yes _____ No _____

FKM Yes _____ No _____

If No, then what materials should be used? _____

Is the additive compatible with the following storage materials?

316 Stainless Steel Yes _____ No _____

Mild Carbon Steel Yes _____ No _____

If No, what coating materials should be used? _____

Magellan has a set of chemistries it does not allow into its fuel stream due to interactions. DDSA or derivatives will be prohibited. These are specified in our product specifications on the Magellan website. Please confirm that this additive does not contain Dodecenyl Succinic Anhydride or Dodecenyl Succinic Acid. Yes _____ No _____