

## **Ethanol SOF 663 200**

Product Specification - Version 6a

| <b>Formulation</b>               | <b>Amount</b> | <b>Lbs</b> | <b>Wt%</b> |
|----------------------------------|---------------|------------|------------|
| Ethanol 200pf                    | 80.95 usg     | 535.07 lbs | 80.92      |
| IPA                              | 4.05 usg      | 26.62 lbs  | 4.03       |
| IPA                              | 14.00 usg     | 92.08 lbs  | 13.93      |
| n-Propyl Acetate                 | 1.00 usg      | 7.43 lbs   | 1.12       |
| Resultant Volume @ 60F per 27CFR | 100.00 usg    | 661.20 lbs | 100.00     |

| <b>Specifications</b>                                    | <b>Target</b> | <b>Minimum</b>           | <b>Maximum</b> | <b>Test Method</b> |
|--|---------------|--------------------------|----------------|--------------------|
| Density @ 60F (lbs/gal)                                  | 6.612         | 6.599                    | 6.629          | ASTM D4052         |
| Specific Gravity @ 60/60F                                | 0.7938        | 0.7924                   | 0.7960         | ASTM D891          |
| Suspended Matter (visual)                                |               | Free of suspended matter |                | ASTM D3741         |
| Color (Pt-Co)  |               |                          | 5              | ASTM D5386/D1209   |
| Odor   |               | Characteristic           |                | ASTM E769          |
| Acidity as Acetic Acid (wt%)                             |               |                          | 0.005          | ASTM D1613         |
| Non-Volatile Matter (g/100ml)                            |               |                          | 0.005          | ASTM D1353         |
| Water Content (wt%)                                      |               |                          | 0.1            | ASTM D1364         |
| <b>Gas Chromatography Analysis (wt% Anhydrous Basis)</b> |               |                          |                |                    |
| Ethanol  | 80.92         | 79.56                    | 82.20          | ASTM E1100         |
| IPA  | 17.95         | 16.78                    | 19.21          | ASTM E1100         |
| n-Propyl Acetate   | 1.12          | 1.02                     | 1.24           | ASTM E1100         |

Notes: None

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Reason for revision:

Version 2a dated 7/1/06 GAT – New format.

Version 4a dated 12/25/06 GAT – Specification layout revised for posting on website.

Version 5a dated 11/5/13 GAT – Color D5386/D1209

Version 6a dated 7/31/14 GAT – Sasol Chemicals (USA) LLC

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