

Kalchem International

Chemicals & Compounding Supplies

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|-----------------|---|--------------------|---------------------------------------|
| Customer: | UNIVAR USA INC 2145 SKYLAND CT NORCROSS GA 30071-2960 | Product Number : | 55390816 |
| Attention: | US 770-447-1818 | Product Name : | Pluronic® F 127 Prill 91KG Fibre drum |
| FAX: | 770-447-1818 | Vehicle : | EMHU231322 MATE |
| Cust Prod: | | Batch/Lot : | WPEG553B |
| Cust Prod Name: | | Manuf. Date : | 08/11/2011 |
| Cust P.O.: | AL-641305 | Shipped Date : | 11/11/2011 |
| Cust P.O. Line: | 7 | Shipped Quantity : | 8 PCA |
| | | Delivery Date : | 11/11/2011 |
| | | Order Number : | 111244217 000070 |
| | | Delivery Note : | 121795351 900003 |

| Characteristic | Result | UOM | -----Specification----- | | Test Method |
|---------------------------|---------------------------|----------|-------------------------|---------|-------------|
| | | | Minimum | Maximum | |
| Cloud Point, 10% solution | Pass. Greater than 100 °C | | | | WQTM-132 |
| Color, APHA | 70 | | | 120 | WQTM-057 |
| pH, 2.5% aqueous | 6.8 | | 6.0 | 7.4 | WQTM-020 |
| Water | 0.13 | Weight % | | 0.75 | WQTM-062 |
| Ethylene Oxide | 0.05 | ppm | | 1.00 | WQTM-339 |
| Propylene Oxide | 0.250 | ppm | | | WQTM-339 |
| 1,4 Dioxane | 0.100 | ppm | | | WQTM-339 |
| Hydroxyl Number | 9.0 | mg KOH/g | | | WQTM-007 |
| Melting Point | 54.70 | °C | | | WQTM-128 |

The information contained herein is based either on analytical tests of samples or on statistical process data; it is intended solely for purposes of comparison with the established specifications for the product. Warranties of the product are exclusively as set forth in the applicable contract documents.

THIS CERTIFICATE OF ANALYSIS HAS BEEN PRODUCED ELECTRONICALLY AND IS VALID WITHOUT A SIGNATURE.

Kalchem International, Inc
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