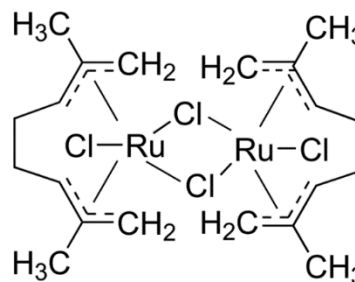




## Product Specification

|                          |  |
|--------------------------|--|
| <b>Chemical Name:</b>    | Dichlorobis( $\mu$ -chloro)bis[(1,2,3,6,7,8- $\eta$ )-2,7-dimethyl-2,6-octadien-1,8-diyl]diruthenium(IV) |
| <b>CMI Product Code:</b> | 8106   |
| <b>CAS Number:</b>       | 34801-97-3   |
| <b>Formula:</b>          | $C_{20}H_{32}Cl_4Ru_2$   |
| <b>Formula Weight:</b>   | 616.42 g/mol   |
| <b>Theoretical Ru:</b>   | 32.8%  |



| <b>PARAMETER</b>         | <b>SPECIFICATION</b>  |
|--------------------------|---|
| <b>Ru Assay</b>          | $32.8 \pm 0.3\%$  |
| <b>Chemical Purity</b>   | $\geq 98\%$ (based on carbon %)                             |
| <b>Microanalysis</b>     | Carbon: $39.0 \pm 0.8\%$<br>Hydrogen: $5.2 \pm 0.3\%$       |
| <b>Infrared Spectrum</b> | Conforms to structure                                       |
| <b>Appearance</b>        | Purple powder or crystals                                   |
| <b>Storage</b>           | Store in a tightly sealed container in a cool dry location. |

**Reviewing Chemist:** Dr. Bryan Frauhiger, Ph.D., Organometallic Technical Director: BEF

**Specification Approval:** Dr. Ernest Addo, Ph.D., Director of Quality & Analytical Testing: EA

**Specification Revision Date:** March 14<sup>th</sup>, 2016

**Revision Level:** 0

Colonial Metals warrants, that at the time of product release this product conformed to the information contained on this specification sheet. Purchaser must determine the suitability of the product for its particular use.

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