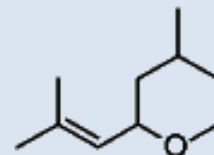


## PRODUCT SPECIFICATION

### ROSE OXIDE 70/30

|                           |                                   |
|---------------------------|-----------------------------------|
| <b>Code</b>               | 02154                             |
| <b>CAS</b>                | 16409-43-1                        |
| <b>EINECS</b>             | 240-457-5                         |
| <b>FEMA No</b>            | 3236                              |
| <b>Structural Formula</b> | C <sub>10</sub> H <sub>18</sub> O |
| <b>Molecular Weight</b>   | 154.25                            |
| <b>Tariff Number</b>      | 2932999099                        |



#### SENSORY DATA

|                   |                  |
|-------------------|------------------|
| <b>Appearance</b> | Colorless liquid |
| <b>Odor</b>       | Rose like odor   |

#### ANALYTICAL DATA

| Item                                 | Standard    |
|--------------------------------------|-------------|
| <b>Refractive Index (20°C)</b>       | 1.452-1.457 |
| <b>Refractive Index (25°C)</b>       | -           |
| <b>Relative Density(20°C)</b>        | -           |
| <b>Relative Density(25°C)</b>        | 0.867-0.872 |
| <b>Acid Value (KOH mg/g)</b>         | ≤1.0        |
| <b>Melting Point(°C)</b>             | ≤0.2        |
| <b>Water (%)</b>                     | -           |
| <b>Optical Rotation(20°C)</b>        | -           |
| <b>Cis Rose Oxide (%)</b>            | ≥70.0       |
| <b>Sum of Isomers(Cis+Trans) (%)</b> | ≥98.0       |
| <b>Solubility</b>                    | -           |

#### OTHER DATA

|                          |  |
|--------------------------|--|
| <b>Flash Point</b>       | 157.00 °F  |
| <b>Shelf Life</b>        | 12 months  |
| <b>Storage Condition</b> | Store in a cool, dry, well-ventilated area away from incompatible substances. A refrigerated room would be preferable. |
| <b>Issue Date</b>        | 8/1/2018   |

This specification applies to the recommended conditions for the duration of the shelf life.  
The above specification is subject to change upon further notice. Specification revisions may be required by various factors including changing regulations and individual product characteristics.