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|  synerzine TM | Title: | W0121 Product Specification | | |
| | Document #: | 02-1006 | Rev #: | 002 |
| | Status: | ACTIVE | Date Issued: | 11/04/2018 |

Product Identifiers

| | |
|---------------|-----------------------|
| Product Name: | ALPHA-ANGELICALACTONE |
|---------------|-----------------------|

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|------------------|--------------|-------|----------|--------|------|
| Synerzine Item # | W0121 | CAS # | 591-12-8 | FEMA # | 3293 |
|------------------|--------------|-------|----------|--------|------|

Material Properties

| | | | |
|-------------------|--------|----------------------|--------|
| Molecular Formula | C5H6O2 | Flash Point (°F, CC) | 155 |
| Molecular Weight | 98.1 | Boiling Point | 168°C |
| Shelf Life (days) | 730 | Physical State | Liquid |

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|-----------------------|--|
| Solubility | soluble in alcohols slightly soluble in water |
| Storage and Stability | Store in fully closed container in cool (~20°C) dry place. Stable for years, with slight development of discoloration. |
| Handling Precautions | Avoid contact of eyes and skin. In case of contact, flush copiously with water. Keep away from heat and flame. |

Specified Critical Limits

| Critical Property | Test Method | UOM | Lower Limit | Upper Limit |
|-------------------|-------------------------|--------------------------|-------------------|-------------|
| Color | Visual Analysis | None | Yellow | Yellow |
| Odor | Organoleptic Analysis | None | Sweet, herbaceous | |
| Chemical Purity | Gas Chromatography | % Isomeric Sum | 98.0% | 100.0% |
| Density | Density Analysis | g/cm ³ @ 20°C | 1.085 | 1.105 |
| Refractive Index | Refractometric Analysis | nD20 | 1.447 | 1.465 |

Notes

*isomeric sum of alpha- and beta- angelica lactones

This specification was generated electronically, and is therefore unsigned.