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|--|---|--------------------------------|
|  <b>synerzine</b> <sup>TM</sup> | <b>Title:</b> W1800 Product Specification |                                |
|  | <b>Document #:</b> 02-1006                | <b>Rev #:</b> 000              |
|  | <b>Status:</b> ACTIVE                     | <b>Date Issued:</b> 06/21/2013 |

### Product Identifiers

|               |                  |
|---------------|------------------|
| Product Name: | MENTHYL VALERATE |
|---------------|------------------|

|                  |              |       |         |        |      |
|------------------|--------------|-------|---------|--------|------|
| Synerzine Item # | <b>W1800</b> | CAS # | 89-47-4 | FEMA # | 4156 |
|------------------|--------------|-------|---------|--------|------|

### Material Properties

|                   |          |                      |               |
|-------------------|----------|----------------------|---------------|
| Molecular Formula | C15H28O2 | Flash Point (°F, CC) | >230          |
| Molecular Weight  | 240.39   | Boiling Point        | 145°C/22mm Hg |
| Shelf Life (days) | 730      | Physical State       | Liquid        |

|                       |  |
|-----------------------|--|
| Solubility            | insoluble in water, soluble in alcohol   |
| Storage and Stability | Store in fully closed container in cool (~20°C) dry place. Shelf life: 24 months                               |
| 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                     | Water-white          | Slight amber |
| Odor              | Organoleptic Analysis   | None                     | Woody, fruity, sweet |              |
| Chemical Purity   | Gas Chromatography      | %                        | 99.0%                | 100.0%       |
| Density           | Density Analysis        | g/cm <sup>3</sup> @ 20°C | 0.899                | 0.919        |
| Refractive Index  | Refractometric Analysis | nD20                     | N/A                  | N/A          |

### Notes

*This specification was generated electronically, and is therefore unsigned.*

**Synerzine**

Quality Control Dept.

Date Printed: 6/26/2021