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|--|--------------------|-----------------------------|---------------------|------------|
|  <b>synerzine</b> <sup>TM</sup> | <b>Title:</b>      | 623CA 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: | PYRAZINE 2,3-DICARBOXYLIC ACID |
|---------------|--------------------------------|

|                  |              |       |         |        |    |
|------------------|--------------|-------|---------|--------|----|
| Synerzine Item # | <b>623CA</b> | CAS # | 89-01-0 | FEMA # | NA |
|------------------|--------------|-------|---------|--------|----|

**Material Properties**

|                   |          |                      |             |
|-------------------|----------|----------------------|-------------|
| Molecular Formula | C6H4N2O4 | Flash Point (°F, CC) | UPDATE SPEC |
| Molecular Weight  | 168.11   | Boiling Point        | NA          |
| Shelf Life (days) | 730      | Physical State       | Solid       |

|                       |  |
|-----------------------|--|
| Solubility            | Insoluble in water; soluble in organic solvents.   |
| 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                     | White       | White       |
| Odor              | Organoleptic Analysis   | None                     | Little odor |             |
| Chemical Purity   | Gas Chromatography      | %                        | 97.0%       | 100.0%      |
| Density           | Density Analysis        | g/cm <sup>3</sup> @ 20°C | N/A         | N/A         |
| Refractive Index  | Refractometric Analysis | nD20                     | N/A         | N/A         |

**Notes**

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