

**(A) Excellent = Recommended**

**(C) Fair (limited life)**

**(B) Good = Recommended**

**(X) Not Recommended**

| Chemical   | Concentration (%) | Temp. |     | PVC | CPVC | PP | PVDF | TEFLON | VITON | EPDM | NITRILE | Chemical            | Concentration (%) | Temp.           |       | PVC | CPVC | PP  | PVDF | TEFLON | VITON | EPDM | NITRILE |   |   |   |   |   |   |
|--|-------------------|-------|-----|-----|------|----|------|--------|-------|------|---------|---------------------|-------------------|-----------------|-------|-----|------|-----|------|--------|-------|------|---------|---|---|---|---|---|---|
|  |                   | °C    | °F  |     |      |    |      |        |       |      |         |                     |                   | °C              | °F    |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
| Zinc Acetate<br>(CH <sub>3</sub> COO) <sub>2</sub><br>Zn·2H <sub>2</sub> O |                   | 20    | 68  | A   | A    | A  | A    | A      | A     | A    | A       | Hydrochloric Acid   | 25                | 20              | 68    | A   | A    | A   | A    | A      | A     | A    | A       | A | A |   |   |   |   |
|  |                   | 40    | 104 | A   | A    | A  | A    | A      | A     | A    | A       |                     |                   | Ferric Chloride | (1:1) | 40  | 104  | A   | A    | A      | A     | A    | A       | A | A | A | A |   |   |
|  |                   | 60    | 140 | A   | A    | A  | A    | A      | A     | A    | A       |                     |                   |                 |       | 28  |      | 60  | 140  | A      | A     | A    | A       | A | A | A | A | A | A |
|  |                   | 80    | 176 |     | A    | A  | A    | A      | A     | A    | A       |                     |                   |                 |       |     |      | 100 | 212  | 80     | 176   |      | A       | A | A | A | B | B |   |
|  |                   | 100   | 212 |     |      |    | A    | A      | A     |      |         |                     |                   |                 |       | 120 | 248  |     |      | 100    | 212   |      | B       | B | A | A | C |   |   |
| 120  | 248               |       |     |     | A    | A  |      |        |       |      | 120     | 248                 |                   |                 |       |     |      | B   | A    |        |       |      |         |   |   |   |   |   |   |
| Zinc Bromide<br>ZnBr <sub>2</sub>  | Satu              | 20    | 68  | A   | A    | A  | A    | A      | A     | A    | A       | Hydrochloric Acid   | 20                | 20              | 68    |     |      |     | A    | A      | A     | A    |         |   |   |   |   |   |   |
|  |                   | 40    | 104 | A   | A    | A  | A    | A      | A     | A    | A       |                     |                   | (1:1)           |       | 40  | 104  |     |      |        | A     | A    | A       | A |   |   |   |   |   |
|  |                   | 60    | 140 | A   | A    | A  | A    | A      | A     | A    | A       |                     |                   |                 |       | 28  |      | 60  | 140  |        |       |      | A       | A | A | A |   |   |   |
|  |                   | 80    | 176 |     |      |    | A    | A      |       |      |         |                     |                   |                 |       |     |      | 100 | 212  | 80     | 176   |      |         |   | A | A | B | B |   |
|  |                   | 100   | 212 |     |      |    |      |        |       |      |         |                     |                   |                 |       | 120 | 248  |     |      | 100    | 212   |      |         |   | A | A | C |   |   |
| 120  | 248               |       |     |     |      |    |      |        |       |      | 120     | 248                 |                   |                 |       |     |      | A   | A    |        |       |      |         |   |   |   |   |   |   |
| Zinc Chloride<br>ZnCl <sub>2</sub>   |                   | 20    | 68  | A   | A    | A  | A    | A      | A     | A    | A       | Hydrochloric Acid   | 25                | 20              | 68    |     |      |     | A    | A      |       |      |         |   | A |   |   |   |   |
|  |                   | 40    | 104 | A   | A    | A  | A    | A      | A     | A    | A       |                     |                   | (1:1)           |       | 40  | 104  |     |      |        | A     | A    |         |   |   |   | A |   |   |
|  |                   | 60    | 140 | A   | A    | A  | A    | A      | A     | A    | A       |                     |                   |                 |       | 28  |      | 60  | 140  |        |       |      | A       | A |   |   |   |   | A |
|  |                   | 80    | 176 |     | A    | A  | A    | A      | A     | A    |         |                     |                   |                 |       |     |      | 100 | 212  | 80     | 176   |      |         |   | A | A |   |   |   |
|  |                   | 100   | 212 |     |      |    | A    | A      | A     |      |         |                     |                   |                 |       | 120 | 248  |     |      | 100    | 212   |      |         |   | A | A |   |   |   |
| 120  | 248               |       |     |     | A    | A  |      |        |       |      | 120     | 248                 |                   |                 |       |     |      | A   | A    |        |       |      |         |   |   |   |   |   |   |
| Zinc Cyanide<br>Zn(CN) <sub>2</sub>  |                   | 20    | 68  | A   |      | A  | A    | A      | A     | A    | A       | Hydrochloric Acid   | 10                | 20              | 68    | A   | A    |     | A    | A      |       |      |         |   |   |   |   |   |   |
|  |                   | 40    | 104 |     |      |    | A    | A      |       |      |         |                     |                   | (1:1)           |       | 40  | 104  | B   | B    |        | A     | A    |         |   |   |   |   |   |   |
|  |                   | 60    | 140 |     |      |    | A    | A      |       |      |         |                     |                   |                 |       | 15  |      | 60  | 140  | B      | B     |      | A       | A |   |   |   |   |   |
|  |                   | 80    | 176 |     |      |    |      |        |       |      |         |                     |                   |                 |       |     |      | 100 | 212  | 80     | 176   | X    | X       |   | A | A |   |   |   |
|  |                   | 100   | 212 |     |      |    |      |        |       |      |         |                     |                   |                 |       | 120 | 248  |     |      | 100    | 212   |      |         |   | A | A |   |   |   |
| 120  | 248               |       |     |     |      |    |      |        |       |      | 120     | 248                 |                   |                 |       |     |      | A   | A    |        |       |      |         |   |   |   |   |   |   |
| Zinc Nitrate<br>Zn(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O       |                   | 20    | 68  | A   | A    | A  | A    | A      | A     | A    | A       | Hydrochloric Acid   | 18                | 20              | 68    | A   | A    |     | A    | A      |       |      |         |   |   |   |   |   |   |
|  |                   | 40    | 104 | A   | A    | A  | A    | A      | A     | A    | A       |                     |                   | (1:1)           |       | 40  | 104  | B   | B    |        | A     | A    |         |   |   |   |   |   |   |
|  |                   | 60    | 140 | A   | A    | A  | A    | A      | A     | A    | A       |                     |                   |                 |       | 20  |      | 60  | 140  | B      | B     |      | A       | A |   |   |   |   |   |
|  |                   | 80    | 176 |     | A    | A  | A    | A      | A     | A    | B       |                     |                   |                 |       |     |      | 100 | 212  | 80     | 176   |      | B       |   | A | A |   |   |   |
|  |                   | 100   | 212 |     |      |    | A    | A      | A     |      |         |                     |                   |                 |       | 120 | 248  |     |      | 100    | 212   |      |         |   | A | A |   |   |   |
| 120  | 248               |       |     |     | A    | A  |      |        |       |      | 120     | 248                 |                   |                 |       |     |      | B   | A    |        |       |      |         |   |   |   |   |   |   |
| Zinc Sulfate<br>ZnSO <sub>4</sub>  |                   | 20    | 68  | A   | A    | A  | A    | A      | A     | A    | A       | Hydrochloric Acid   | 20                | 20              | 68    | A   | A    | B   | A    | A      | A     | A    | B       |   |   |   |   |   |   |
|  |                   | 40    | 104 | A   | A    | A  | A    | A      | A     | A    | A       |                     |                   | 100g            |       | 40  | 104  | A   | A    | C      | A     | A    | A       | B |   |   |   |   |   |
|  |                   | 60    | 140 | A   | A    | A  | A    | A      | A     | A    | A       |                     |                   |                 |       | 50  | 5g   | 60  | 140  | B      | B     | X    | A       | A |   |   |   |   |   |
|  |                   | 80    | 176 |     | A    | A  | A    | A      | A     | A    | B       |                     |                   |                 |       |     |      | 100 | 212  | 80     | 176   |      | C       |   | A | A |   |   |   |
|  |                   | 100   | 212 |     |      |    | A    | A      | A     |      |         |                     |                   |                 |       | 120 | 248  |     |      | 100    | 212   |      |         |   | A | A |   |   |   |
| 120  | 248               |       |     |     | A    | A  |      |        |       |      | 120     | 248                 |                   |                 |       |     |      | B   | A    |        |       |      |         |   |   |   |   |   |   |
| <b>Mixed Chemicals</b>   |                   |       |     |     |      |    |      |        |       |      |         | Hydrochloric Acid   | 36 %              | 20              | 68    | B   | B    | B   | A    | A      | B     | B    |         |   |   |   |   |   |   |
|  |                   |       |     |     |      |    |      |        |       |      |         |                     |                   | 40              | 104   | B   | B    | B   | A    | A      | B     | B    |         |   |   |   |   |   |   |
|  |                   |       |     |     |      |    |      |        |       |      |         | Ortho-chloro-phenal | 170 PPM           | 60              | 140   | B   | B    | B   | A    | A      | B     | C    |         |   |   |   |   |   |   |
|  |                   |       |     |     |      |    |      |        |       |      |         |                     |                   | 80              | 176   |     |      |     | A    | A      | B     |      |         |   |   |   |   |   |   |
| Hydrochloric Acid  | 36%               | 20    | 68  | B   | B    | B  | A    | A      | B     | B    |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
|  |                   | 40    | 104 | B   | B    | B  | A    | A      | B     | B    |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
| Allyl Chloride   | 12 PPM            | 60    | 140 |     |      |    | B    | A      | C     |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
|  |                   | 80    | 176 |     |      |    | A    | A      | B     |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
| Hydrochloric Acid  | 36%               | 100   | 212 |     |      |    | B    | A      | C     |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
|  |                   | 120   | 248 |     |      |    | B    | A      |       |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
| Hydrochloric Acid  | 100g              | 20    | 68  | A   | A    | A  | A    | A      | A     | A    |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
|  |                   | 40    | 104 | A   | B    | A  | A    | A      | A     | A    | A       |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
| Benzene  | 54 PPM            | 60    | 140 | B   | B    | B  | A    | A      | B     | C    |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
|  |                   | 80    | 176 |     | B    | B  | A    | A      | B     |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
| Hydrochloric Acid  | 36%               | 100   | 212 |     |      |    | B    | A      | C     |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
|  |                   | 120   | 248 |     |      |    | B    | A      |       |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
| Hydrochloric Acid  | 18%               | 20    | 68  | A   | A    | A  | A    | A      | B     | B    |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
|  |                   | 40    | 104 | B   | B    | B  | A    | A      | B     | C    |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
| Chloro-benzene   | 490 PPM           | 60    | 140 | B   | B    | B  | A    | A      | B     |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
|  |                   | 80    | 176 |     | B    | B  | A    | A      | C     |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
| Hydrochloric Acid  | 36%               | 100   | 212 |     |      |    | A    | A      |       |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
|  |                   | 120   | 248 |     |      |    | B    | A      |       |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
| Hydrochloric Acid  | 250               | 20    | 68  | A   | A    | X  | A    | A      | X     | X    |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
|  |                   | 40    | 104 | A   | A    |    | A    | A      |       |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
| Chromic Acid   | 8 g/l             | 60    | 140 | B   | B    |    | A    | A      |       |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
|  |                   | 80    | 176 |     | C    |    | A    | A      |       |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
| Ammonium Fluoride  | 8 g/l             | 100   | 212 |     |      |    | A    | A      |       |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |
|  |                   | 120   | 248 |     |      |    | A    | A      |       |      |         |                     |                   |                 |       |     |      |     |      |        |       |      |         |   |   |   |   |   |   |