



**SDFCL**  
s d fine-chem limited  
Quality Control Dept.



Qu: Product Specification

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| E Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | QC2\DATAD\ID:\PS\24139\XPS.xls                                                   |                                                                                |                                                                                                |
| PRODUCT CODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 24139                                                                            |                                                                                |                                                                                                |
| PRODUCT NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | STANDARD SOLUTION "CERTISOL" AAS COPPER 1000 mg/L IN NITRIC ACID, NIST TRACEABLE |                                                                                |                                                                                                |
| SYNONYMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (AAS Standard solution Cu 1000 mg/L)                                             |                                                                                |                                                                                                |
| C.I. NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | --                                                                               |                                                                                |                                                                                                |
| CASR NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | --                                                                               |                                                                                |                                                                                                |
| ATOMIC OR MOLECULAR FORMULA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | --                                                                               |                                                                                |                                                                                                |
| ATOMIC OR MOLECULAR WEIGHT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | --                                                                               |                                                                                |                                                                                                |
| PROPERTIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | --                                                                               |                                                                                |                                                                                                |
| --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                  |                                                                                |                                                                                                |
| PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LIMIT                                                                            |                                                                                |                                                                                                |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Blue liquid.                                                                     |                                                                                |                                                                                                |
| Concentration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1000 ± 10 µg/ml                                                                  |                                                                                |                                                                                                |
| Wt. per ml (at 20°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ~ 1.010 g/ml                                                                     |                                                                                |                                                                                                |
| Matrix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | HNO <sub>3</sub> (As defined in the label.)                                      |                                                                                |                                                                                                |
| Traceability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NIST SRM3114                                                                     |                                                                                |                                                                                                |
| MAXIMUM LIMIT OF IMPURITIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                                |                                                                                                |
| --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | --                                                                               |                                                                                |                                                                                                |
| Note(s) : 1] Assay (if applicable) method mentioned.<br>2] Expiry date : 1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                  |                                                                                |                                                                                                |
| <b>DANGER</b><br><b>Hazard statements</b> : Toxic if inhaled.Causes skin irritation.Causes serious eye irritation.May be corrosive to metals.Harmful to aquatic life.Harmful to aquatic life with long lasting effects.<br><b>Precautionary statements</b><br><b>Prevention</b> : Keep only in original container. Avoid breathing dust/fume/gas/ mist/vapours/spray.Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves /protective clothing/eye protection/face protection.<br><b>Response</b> : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/ physician. If eye irritation persists: Get medical advice/attention. Absorb spillage to prevent material damage. |                                                                                  |                                                                                |                                                                                                |
| IMDG Code : 8/III<br>UN No. : 3264.<br>IATA : 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                  |                                                                                |                                                                                                |
| <b>Disposal</b> : The quantities greater than 10g should be dissolved in water and transferred to heavy metal waste drums for collection by specialist disposal company. Add in small quantities to large, stirred excess of water, keeping the final concentration less than 2% .Neutralize with 5% sodium hydroxide soln. and run to waste with large volumes of running water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                                                                                |                                                                                                |
| Hazard Pictogram(s) :--                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                  |                                                                                |                                                                                                |
| <div style="display: flex; justify-content: space-around; align-items: center;"><div style="text-align: center;"><br/><b>Acute toxicity</b></div><div style="text-align: center;"><br/><b>Corrosive to metals</b></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                  |                                                                                |                                                                                                |
| Prepared By :<br>Name/Dept. : Officer (Q.A.)<br>Sign. :<br>Date : 17.06.2014.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Checked By:<br>Name/Dept.:Incharge(Q.A.)<br>Sign. :<br>Date : 17.06.2014.        | Approved By:<br>Name/Dept. : Incharge (Tech.)<br>Sign. :<br>Date : 28.06.2014. | Issue Date : 07.12.2006<br>Revision No.: 02<br>Revision dt. : 28.06.2014.<br>AMEND NO. : 1649. |