

| <div style="display: flex; justify-content: space-between; align-items: center;">  <div style="text-align: center;"> <h1>SDFCL</h1> <p>s d fine-CHEM LIMITED</p> <p>Quality Control Dept.</p> </div>  </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                       |                                                   |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------|---------------------------|
| QI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                       | Product Specification                             |                           |
| E Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | QC2\DATAD\ID:IPS\38224\XPS.xls                                        |                                                   |                           |
| PRODUCT CODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 38224                                                                 |                                                   |                           |
| PRODUCT NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | m-DINITROBENZENE LR                                                   |                                                   |                           |
| SYNONYMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (1,3-Dinitrobenzene)                                                  |                                                   |                           |
| C.I. NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | --                                                                    |                                                   |                           |
| CASR NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (99-65-0)                                                             |                                                   |                           |
| ATOMIC OR MOLECULAR FORMULA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | C <sub>6</sub> H <sub>4</sub> N <sub>2</sub> O <sub>4</sub>           |                                                   |                           |
| ATOMIC OR MOLECULAR WEIGHT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 168.11                                                                |                                                   |                           |
| PROPERTIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sparingly soluble in benzene,slightly soluble in water.               |                                                   |                           |
| <h2>C<sub>6</sub>H<sub>4</sub>N<sub>2</sub>O<sub>4</sub></h2>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                       |                                                   |                           |
| PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LIMIT                                                                 |                                                   |                           |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pale yellow or yellow needles/ crystals / crystalline powder / Flakes |                                                   |                           |
| Solubility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2% solution in Ethanol is clear .                                     |                                                   |                           |
| Minimum Assay (HPLC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 98.0%                                                                 |                                                   |                           |
| Melting point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | About. 90°C                                                           |                                                   |                           |
| Residue on ignition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Max.0.5%                                                              |                                                   |                           |
| MAXIMUM LIMIT OF IMPURITIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                       |                                                   |                           |
| ----                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -----                                                                 |                                                   |                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                       |                                                   |                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                       |                                                   |                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                       |                                                   |                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                       |                                                   |                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                       |                                                   |                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                       |                                                   |                           |
| <b>Note(s) : Assay (if applicable) method mentioned.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                       |                                                   |                           |
| <b>HAZARD</b><br><b>DANGER</b><br>Fatal in contact with skin.Fatal if inhaled.Fatal if swallowed.Suspected of damaging fertility.May cause damage to organs through prolonged or repeated exposure.Very toxic to aquatic life with long lasting effects.<br><b>PRECAUTIONARY STATEMENTS</b><br><b>Prevention</b> :Wear protective gloves/clothing.Do not get in eyes, on skin or on clothing.Obtain special instructions before use..Wear respiratory protection.Do not breathe dust/fume/gas/mist/vapours/spray..Use only outdoors or in a well ventilated area.Do not eat, drink or smoke when using this product.Use personal protective equipment as required.Do not handle until all safety precautions have been read and understood.Wash hands thoroughly after handling.<br><b>Response</b> :If exposed or concerned: Get medical attention advice.IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.Keep container tightly closed.Immediately call a POISON CENTER or doctor/physician.Get medical advice/attention if you feel unwell.Specific treatment: refer to Label or MSDS.IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.Remove/Take off immediately all contaminated clothing IF ON SKIN: Gently wash with plenty of soap and water.Wash if contaminated and clothing before reuse. |                                                                       | IMDG Code : 6.1/II<br>UN No. : 3443<br>IATA : 6.1 |                           |
| <b>Disposal:</b> The waste chemical should be buried on a stage approved site .The liquids should be absorbed on sand. The chemical waste should be collected by specialized disposal company.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                       |                                                   |                           |
| Hazard Pictogram(s) : <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;">  <p>Acute toxicity</p> </div> <div style="text-align: center;">  <p>Aspiration hazard</p> </div> <div style="text-align: center;">  <p>Aquatic environment</p> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                       |                                                   |                           |
| Prepared By :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Checked By:                                                           | Approved By:                                      | Issue Date : 01.07.2002   |
| Name/Dept. : Officer (Q.A.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Name/Dept.:Incharge(Q.A.)                                             | Name/Dept. : Incharge (Tech.)                     | Revision No.: 03          |
| Sign. :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sign. :                                                               | Sign. :                                           | Revision dt. : 25.03.2015 |
| Date : 14.03.2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Date : 14.03.2015                                                     | Date : 25.03.2015                                 | AMEND NO. :1673           |