



**SDFCL**  
S d fine-CHEM limited  
Quality Control Dept.



Qu: Product Specification

|                             |                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------|
| E Control                   | QC2\DATAD\D\PS\20245XPS.xls                                                                          |
| PRODUCT CODE                | 20245                                                                                                |
| PRODUCT NAME                | SODIUM DIHYDROGEN ORTHOPHOSPHATE DIHYDRATE AR<br>Meets Analytical Specification of BP, USP, Ph. Eur. |
| SYNONYMS                    | (Sodium bi-phosphate dihydrate)                                                                      |
| C.I. NO.                    | --                                                                                                   |
| CASR NO.                    | (13472-35-0)                                                                                         |
| ATOMIC OR MOLECULAR FORMULA | NaH <sub>2</sub> PO <sub>4</sub> .2H <sub>2</sub> O                                                  |
| ATOMIC OR MOLECULAR WEIGHT  | 156.01                                                                                               |
| PROPERTIES                  | --                                                                                                   |



| PARAMETER                                                                 | LIMIT                                          |
|---------------------------------------------------------------------------|------------------------------------------------|
| Description                                                               | Colourless crystals/ white crystalline powder. |
| Solubility                                                                | 10% solution in water is clear and colourless. |
| Identification                                                            | Passes test.                                   |
| Assay (NaH <sub>2</sub> PO <sub>4</sub> )(Acidimetric; dried substance. ) | 98.0 - 100.5%                                  |
| pH of (5% aqueous soln)                                                   | 4.2 - 4.5                                      |
| Loss on drying (at 130 °C)                                                | 21.5 – 24.0%                                   |
| Reducing substances                                                       | Passes test.                                   |
| <b>MAXIMUM LIMIT OF IMPURITIES</b>                                        |                                                |
| Insoluble matter                                                          | 0.15%                                          |
| Chloride (Cl)                                                             | 0.001%                                         |
| Sulphate (SO <sub>4</sub> )                                               | 0.005%                                         |
| Arsenic (As)                                                              | 0.0002%                                        |
| Aluminium, calcium & related substances                                   | Passes test.                                   |
| Calcium (Ca)                                                              | 0.005%                                         |
| Copper (Cu)                                                               | 0.0005%                                        |
| Iron (Fe)                                                                 | 0.001%                                         |
| Lead (Pb)                                                                 | 0.0005%                                        |
| Heavy metal (as Pb)                                                       | 0.0005%                                        |
| Magnesium (Mg)                                                            | 0.005%                                         |
| Disodium phosphate                                                        | Passes test.                                   |
| Organic volatile impurities                                               | Meets the requirement.                         |

**Note(s) : Assay (if applicable) method mentioned.**

**WARNING**

**Hazard statements** : Not hazardous. No hazards.

**Precautionary statements**

**Prevention:** -----

**Response:** ---

IMDG Code :--

UN No. :--

IATA :--

**Disposal** : Dissolve the chemical to be disposed, in water and allow it to run to waste, diluting with large quantities of water.

**Hazard Pictogram(s) :** -----

|                                                                              |                                                                          |                                                                               |                                                                                              |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Prepared By :<br>Name/Dept. : Officer (Q.A.)<br>Sign. :<br>Date : 16.05.2011 | Checked By:<br>Name/Dept.:Incharge(Q.A.)<br>Sign. :<br>Date : 16.05.2011 | Approved By:<br>Name/Dept. : Incharge (Tech.)<br>Sign. :<br>Date : 30.05.2011 | Issue Date : 01.07.2002<br>Revision No.: 04<br>Revision dt. : 30.05.2011<br>AMEND NO. : 1587 |
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