



# SDFCL

s d fine-CHEM LIMITED

Quality Control Dept.

Product Specification



|                             |                                                      |
|-----------------------------|------------------------------------------------------|
| E Control                   | QC2\DATAD\D:\PS\20064XPS.xls                         |
| PRODUCT CODE                | 20064                                                |
| PRODUCT NAME                | CADMIUM CHLORIDE HEMIPENTAHYDRATE AR, ACS            |
| SYNONYMS                    | --                                                   |
| C.I. NO.                    | --                                                   |
| CASR NO.                    | (7790-78-5)                                          |
| ATOMIC OR MOLECULAR FORMULA | $\text{CdCl}_2 \cdot 2\frac{1}{2}\text{H}_2\text{O}$ |
| ATOMIC OR MOLECULAR WEIGHT  | 228.35                                               |
| PROPERTIES                  | Soluble in water and acetone.                        |



| PARAMETER                                   | LIMIT                                                |
|---------------------------------------------|------------------------------------------------------|
| Description                                 | Colourless efflorescent crystals/crystalline powder. |
| Solubility                                  | 10% solution in water is clear and colourless.       |
| Assay (Complexometric)                      | 99.5 - 101.0%                                        |
| Assay (Complexometric; as $\text{CdCl}_2$ ) | 79.9 - 81.0%                                         |
| pH of 5% soln in water                      | 4.0 - 6.5                                            |
| <b>MAXIMUM LIMIT OF IMPURITIES</b>          |                                                      |
| Insoluble matter                            | 0.003%                                               |
| Nitrate & Nitrite (as $\text{NO}_3$ )       | 0.003%                                               |
| Ammonium ( $\text{NH}_4$ )                  | 0.005%                                               |
| Sulphate ( $\text{SO}_4$ )                  | 0.005%                                               |
| Arsenic (As)                                | 0.0001%                                              |
| Calcium (Ca)                                | 0.005%                                               |
| Copper (Cu)                                 | 0.0005%                                              |
| Iron (Fe)                                   | 0.0005%                                              |
| Lead (Pb)                                   | 0.002%                                               |
| Potassium (K)                               | 0.02%                                                |
| Sodium (Na)                                 | 0.05%                                                |
| Zinc (Zn)                                   | 0.005%                                               |

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

## DANGER

**Hazard statements:** Fatal if inhaled. Toxic if swallowed. Harmful in contact with skin May cause CANCER. May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Harmful to life if in soil

## Precautionary statements

**Prevention:** Wear respiratory protection. Wear protective gloves/clothing Obtain special instructions before use. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well ventilated area. Wash hands thoroughly after handling. 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.

**Response:** If exposed or concerned: Get medical attention advice. Wash contaminated clothing before reuse. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Keep container tightly closed. Specific treatment: refer to Label or MSDS. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Get medical advice/attention if you feel unwell IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.

**Disposal:** Dispose of contents and container in accordance with relevant legislation.

Hazard Pictogram(s) :



Acute toxicity



Aspiration hazard



Aquatic environment

|                                                                              |                                                                           |                                                                                |                                                                                              |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Prepared By :<br>Name/Dept. : Officer (Q.A.)<br>Sign. :<br>Date : 19.04.2012 | Checked By :<br>Name/Dept.:Incharge(Q.A.)<br>Sign. :<br>Date : 19.04.2012 | Approved By :<br>Name/Dept. : Incharge (Tech.)<br>Sign. :<br>Date : 28.04.2012 | Issue Date : 01.07.2002<br>Revision No.: 03<br>Revision dt. : 28.04.2012<br>AMEND NO. : 1611 |
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