



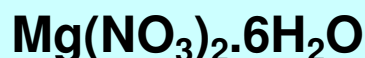
**SDFCL**  
s d fine-chem limited

Quality Control Dept.



Q Product Specification

|                             |                                                      |
|-----------------------------|------------------------------------------------------|
| E Control                   | QC2\DATAD\ID\PS\20816XPS.xls                         |
| PRODUCT CODE                | 20816                                                |
| PRODUCT NAME                | MAGNESIUM NITRATE HEXAHYDRATE AR,ACS                 |
| SYNONYMS                    | --                                                   |
| C.I. NO.                    | --                                                   |
| CASR NO.                    | (13446-18-9)                                         |
| ATOMIC OR MOLECULAR FORMULA | Mg(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O |
| ATOMIC OR MOLECULAR WEIGHT  | 256.41                                               |
| PROPERTIES                  | Melting point ~ 95°C.                                |



| PARAMETER                      | LIMIT                                                         |
|--------------------------------|---------------------------------------------------------------|
| Description                    | Colourless crystals or white deliquescent crystalline powder. |
| Solubility                     | 10% solution in water is clear and colourless.                |
| Minimum Assay (Complexometric) | 99.0%                                                         |
| pH (5% solution in water)      | 5.0 – 8.2                                                     |

#### MAXIMUM LIMIT OF IMPURITIES

|                              |         |
|------------------------------|---------|
| Insoluble matter             | 0.005%  |
| Ammonium (NH <sub>4</sub> )  | 0.003%  |
| Chloride (Cl)                | 0.001%  |
| Phosphate (PO <sub>4</sub> ) | 0.0005% |
| Sulphate (SO <sub>4</sub> )  | 0.002%  |
| Arsenic (As)                 | 0.0001% |
| Barium (Ba)                  | 0.005%  |
| Calcium (Ca)                 | 0.01%   |
| Iron (Fe)                    | 0.0005% |
| Heavy metals (as Pb)         | 0.0005% |
| Manganese (Mn)               | 0.0005% |
| Potassium (K)                | 0.005%  |
| Sodium (Na)                  | 0.005%  |
| Strontium (Sr)               | 0.005%  |

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

#### WARNING

**Hazard statements :** May cause respiratory irritation. May intensify fire; oxidizer. Causes mild skin irritation. Causes serious eye irritation

#### Precautionary statements

**Prevention :** Wash hands thoroughly after handling. Take any precaution to avoid mixing with combustible or incompatible materials. Keep away from heat.

**Response :** Wear eye/face protection. If eye irritation persists, get medical advice/attention. If skin irritation occurs, seek medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IMDG Code :5.1/III

UN No. :1474

IATA :5.1

#### Disposal: ----

Hazard Pictogram(s) :



Skin irritation



Oxidising

|                             |                           |                               |                          |
|-----------------------------|---------------------------|-------------------------------|--------------------------|
| 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.: 02         |
| Sign. :                     | Sign. :                   | Sign. :                       | Revision dt. :02.04.2010 |
| Date : 01.04.2010           | Date : 01.04.2010         | Date : 02.04.2010             | AMEND NO. :1554          |

