

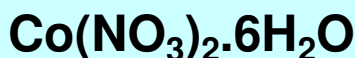


**SDFCL**  
S d fine-CHEM LIMITED  
Quality Control Dept.



Product Specification

|                             |                                                             |
|-----------------------------|-------------------------------------------------------------|
| E Control                   | QC2\DATAD\IPS\20083XPS.xls                                  |
| PRODUCT CODE                | 20083                                                       |
| PRODUCT NAME                | COBALTOUS NITRATE HEXAHYDRATE AR                            |
| SYNONYMS                    | [Cobalt (II) nitrate hexahydrate]                           |
| C.I. NO.                    | --                                                          |
| CASR NO.                    | (10026-22-9)                                                |
| ATOMIC OR MOLECULAR FORMULA | Co(NO <sub>3</sub> ) <sub>2</sub> .6H <sub>2</sub> O        |
| ATOMIC OR MOLECULAR WEIGHT  | 291.03                                                      |
| PROPERTIES                  | Deliquescent in moist air, soluble in most organic solvent. |



| PARAMETER                      | LIMIT                                      |
|--------------------------------|--------------------------------------------|
| Description                    | Red deliquescent crystals.                 |
| Solubility                     | 10% solution in water is bright and clear. |
| Minimum Assay (Complexometric) | 99.0%                                      |
| Reaction (pH)                  | Not less than 2.5                          |
| MAXIMUM LIMIT OF IMPURITIES    |                                            |
| Insoluble matter               | 0.003%                                     |
| Ammonium (NH <sub>4</sub> )    | 0.1%                                       |
| Chloride (Cl)                  | 0.001%                                     |
| Sulphate (SO <sub>4</sub> )    | 0.005%                                     |
| Calcium (Ca)                   | 0.005%                                     |
| Copper (Cu)                    | 0.001%                                     |
| Iron (Fe)                      | 0.002%                                     |
| Lead (Pb)                      | 0.001%                                     |
| Manganese (Mn)                 | 0.002%                                     |
| Nickel (Ni)                    | 0.01%                                      |
| Zinc (Zn)                      | 0.005%                                     |

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

**DANGER**

**Hazard statements:** May cause respiratory irritation. May intensify fire; oxidizer. Harmful if inhaled. Harmful if swallowed. Causes mild skin irritation. Causes serious eye irritation. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. May cause cancer by inhalation. May damage fertility. Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention:** Avoid breathing dust/fume/gas/mist/vapours/spray. In case of inadequate ventilation wear respiratory protection. Use only outdoors or in a well ventilated area. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Contaminated clothing should not be allowed out of the workplace. Obtain special instructions before use. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Take any precaution to avoid mixing with combustible or incompatible materials. Keep away from heat.

**Response:** If exposed or concerned: Get medical attention advice. If eye irritation persists, get medical advice/attention. Wear eye/face protection. If skin irritation or rash occurs, seek medical advice/attention. IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms call a POISON CENTER or doctor/physician. If skin irritation occurs, seek medical advice/attention. IF ON SKIN: Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment: refer to Label or MSDS. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Hazard Pictogram(s) :



IMDG Code : 5.1/II  
UN No. : 1477  
IATA : 5.1



**Skin irritation**



**Oxidising**



**Aspiration hazard**



**Aquatic environment**

|                             |                           |                               |                           |
|-----------------------------|---------------------------|-------------------------------|---------------------------|
| 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           |

