



SDFCL
s d fine-CHEM LIMITED

Quality Control Dept.



Q Product Specification

E Control	QC2\DATAD\D:\PS\20151XPS.xls
PRODUCT CODE	20151
PRODUCT NAME	MAGNESIUM SULPHATE HEPTAHYDRATE AR, ACS Meets Analytical Specification of IP, BP, USP, Ph. Eur
SYNONYMS	--
C.I. NO.	--
CASR NO.	(10034-99-8)
ATOMIC OR MOLECULAR FORMULA	MgSO ₄ .7H ₂ O
ATOMIC OR MOLECULAR WEIGHT	246.47
PROPERTIES	Loses 4H ₂ O at 70 -80 °C; loses 5 H ₂ O at 100 °C; loses 6 H ₂ O at 120 °C; loses last H ₂ O at 250 °C; Noncombustible.

MgSO₄.7H₂O

PARAMETER	LIMIT
Description	Colourless crystals or white crystalline powder.
Solubility	10% solution in water is clear and colourless.
Identification	Passes test.
Assay (Complexometric; Cal.on dried substance)	99.5 - 103.0%
pH (5% soln. in water)	5.0 – 8.2
Loss on drying(at 110 for 1hr,then ignite at 400 °C)	48 – 52%

MAXIMUM LIMIT OF IMPURITIES

Insoluble matter	0.003%
Acidity (H ₂ SO ₄)	0.0025%
Alkalinity (MgO)	0.004%
Ammonium (NH ₄)	0.002%
Chloride (Cl)	0.0005%
Nitrate (NO ₃)	0.001%
Phosphate (PO ₄)	0.001%
Arsenic (As)	0.00004%
Calcium (Ca)	0.005%
Copper (Cu)	0.0002%
Iron (Fe)	0.0005%
Heavy metals (as Pb)	0.001%
Manganese (Mn)	0.0005%
Potassium	0.005%
Selenium	0.003%
Sodium	0.005%
Strontium	0.005%
Zinc (Zn)	0.0005%
Organic volatile impurities	Meets the requirement

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

WARNING

Hazard statements : Causes eye irritation

Precautionary statements

Prevention : Wash hands thoroughly after handling.

Response : If eye irritation persists, get 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 :--

UN No. :--

IATA :--

Disposal :--

Hazard Pictogram(s) : ----

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
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