

**General Product Informationen**

Product Name	S <sub>ES</sub> 33 %
Trade Name	Brine of Magnesium chloride
Formula	MgCl <sub>2</sub>

**Chemical Composition**

	Average		Concentration range	
	[g/l]	[%]	[%]	[%]
Magnesium chloride (MgCl <sub>2</sub> )	448	33.0	32.0	
Potassium chloride (KCl)	2.00	0.15		
Sodium chloride (NaCl)	5.20	0.35		
Magnesium sulfate (MgSO <sub>4</sub> )	38.3	2.80		3.00
Calcium sulfate (CaSO <sub>4</sub> )	0.40	0.03		0.10

**Demands for Salt Solutions in Germany (DIN EN 16811-2)**

	Real Value	Limit Value		Real Value	Limit Value
	[mg/kg]	[mg/kg]		[mg/kg]	[mg/kg]
Arsenic (As)	< 0.10	≤ 2.50	Copper (Cu)	< 0.20	≤ 5.00
Lead (Pb)	< 0.40	≤ 5.00	Nickel (Ni)	< 0.20	≤ 5.00
Cadmium (Cd)	< 0.10	≤ 2.00	Mercury (Hg)	< 0.01	≤ 0.50
Chrome, total (Cr)	< 0.10	≤ 5.00	Zinc (Zn)	< 1.00	≤ 20.0
			Iron (Fe)	< 10.0	Not applicable

**Physical and Chemical Data**

Density at 20 °C	Corresponds to	pH-value	Specific Heat
1.36 g/cm <sup>3</sup>	38 °Be	4 - 7	3.35 MJ / m <sup>3</sup> · K

**Properties**

Additives	None
Colour	Clear, yellowish / brownish
Solubility	Brine with water in all ratios miscible

