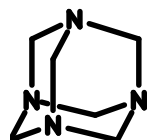


# Hexamethylene tetramine



## PRODUCT INFORMATION

**Appearance:** white crystals or powder

**Molecular Formula:** C<sub>6</sub>H<sub>12</sub>N<sub>4</sub>

**CAS-No.:** 100-97-0

<b>Commercial Product Name:</b>	Hexa coarse crystalline	Hexa ground free-flowing
	Hexa crystalline	Hexa K
	Hexa crystalline free flowing	Methenalink <sup>®</sup>
	Methenamine p.a.	Methenadur <sup>®</sup>

<b>Commercial Form:</b>	Methenamine p.a.	content > 99,5 %
	crystalline	content > 99 %
	coarse crystalline	content > 99 %
	crystalline free-flowing *	content > 97 %
	ground free-flowing *	content > 97 %
	Methenadur <sup>™</sup>	content > 96 %
	Hexa K **	content > 96 %
Methenalink <sup>®</sup> ***	content > 94 %	

\* free-flowing qualities contain approx. 1 % silicic acid

\*\* Hexa K contains approx. 3 % silicic acid

\*\*\* Methenalink<sup>®</sup> contains approx. 3 % silicic acid and approx. 1,5 - 2,5 % paraffine oil

### Physical and Chemical Properties:

Molecular weight:	140.19
Melting point:	sublimes at 280 °C
pH-value [10 % solution]:	7.5 - 9.0
Density [20 °C]:	1.33 g/cm <sup>3</sup>
Solubility [in water]:	at 20 °C 89,5 g/100 g
	at 40 °C 87,4 g/100 g
	at 60 °C 84,4 g/100 g
Ignition temperature:	390 °C
Bulk density:	crystalline form 700 - 800 kg/m <sup>3</sup>
	ground form 300 - 400 kg/m <sup>3</sup>

**Characteristics and Application:**

Weak basic action; hexamethylenetetramine crystals can agglomerate even with an extremely low moisture content; the finer grained these crystals are, the stronger is this tendency. The agglomeration is favored by pressure and heat as well as by high relative atmospheric humidity.

- In the plastics industry as ammonia and formaldehyde donor in the production of phenol and urea formaldehyde resins
- in the rubber industry as vulcanization accelerator (Hexa K / Methenadur®)
- in the textile industry to produce textile auxiliaries and as activator for chlorite bleaching
- in the explosives industry to produce hexogen or hexamine perchlorate
- in pharmaceuticals
- as ensilaging auxiliary for animal feedstuffs
- for production of fuel tablets
- in chemical analysis, etc.

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**Handling:**

Dusty hexamethylenetetramine, when mixed with air, tends to generate dust explosions. Be absolutely sure that static electricity is discharged and that the dust is completely removed by an exhaust system!

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**Storage:**

Although hexamethylenetetramine is moisture-sensitive, it is not hygroscopic. It should be stored in the driest possible atmosphere at relative humidities below 60 %; especially bags which have been opened should most expediently be sealed air-tight and stored without pressure applied to them.

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**Delivery Form:**

- 500 kg bulk bag
- paper bag, 3-ply, with PE lining, 25 kg net wt.

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**Reference on Hazards:**

Dangerous good.  
Hazard characteristics according to article 26 directive 67/548/EEC.  
"Highly flammable" "Harmful"  
Please refer to our Safety Data Sheet.

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M&S/Ru

replaces version: HEXA00E

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