

Technical Data Sheet

Biuron[®]

Empirical formula: CH₄N₂O

Molecular mass: 60.06 kg/kmol
CAS No.: 57-13-6
EINECS-No.: 200-315-5

Synonyms:

Urea feed grade for ruminants
Carbamide
Carbonyldiamide
Urea

Specification:

Inspection method:

Aspect:	White prills	
Nitrogen:	46.2 % N min.	108
Loss on drying:	0.6 % max.	105a
Free ammonia:	0.01 % max.	103
Ash:	0.01 % max.	107
Iron:	2 mg/kg max.	313
Heavy metals:	1 mg/kg max.	313
Biuret:	1,2 % max.	406

Physical properties:

Bulk density:	750 - 810 kg/m ³	
Melting point:	abt. 133°C	
Particle size distribution: (Typical values)	0.2 - 0.5 mm	3 %
	0.5 - 0.85 mm	51 %
	0.85 - 1.0 mm	20 %
	1.0 - 1.25 mm	20 %
	1.25 - 1.6 mm	6 %
	> 1.6 mm	< 0.5 %

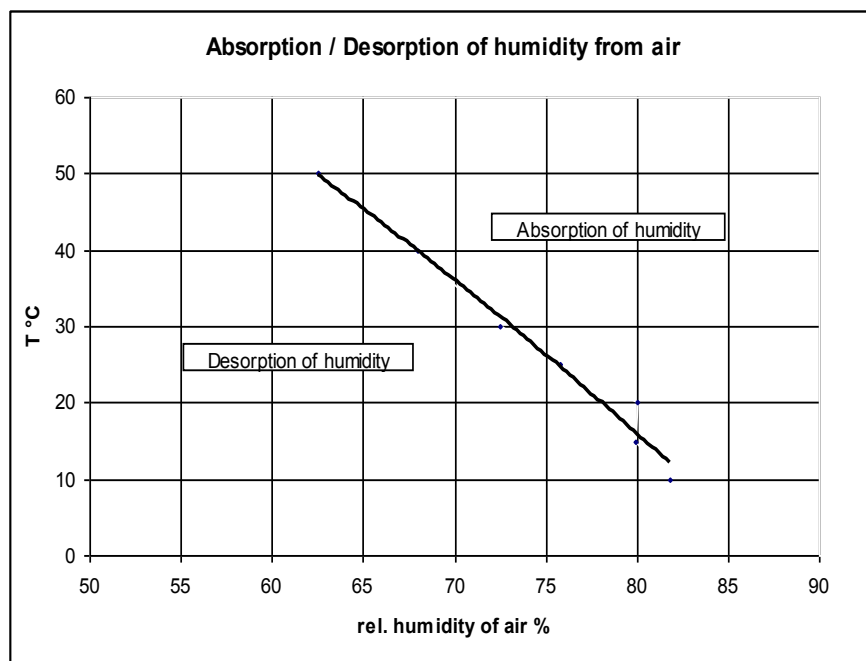
Packaging:

PE-bags of 25 kg net weight
Bigbags of 1000 kg net weight
Palettized on one-way palettes

Transport and storage:

Biuron® can be characterized as having low to medium flowability and shows the following characteristics: Freshly produced Biuron® is free flowing. Storage for more than two months may cause decrease of flowability because of blocking. Avoid storage for more than three months. Vibrate blocked material before use.

Biuron® tends to absorb humidity from air (see graph below).



To avoid affection of the quality of product during transport and storage, please, note the following rules:

Storage of bulk material:

Store Biuron® indoor on clean, dry floor protected from humidity.

Be careful in handling the product by using conveyor belts for transport into the box. In the case of pneumatic conveying use dried air of 0.8 bar max for transportation. Adjust the speed of air flow to the construction of the pneumatic tubes to avoid damage of Biuron® prills.

Avoid distribution by centrifugal force.

Storage of bags:

Store palettes on a plain floor. Store not more than one palette upon an other. Patch up demolished bags with adhesive tape immediately to avoid absorption of humidity and product loss.

Tariff-No.: 3102 1010
RID / ADR / IMO: Not classified, i.e. considered non hazardous material
Licence number: α AT 6035

Safety:

Store and transport Biuron[®] strictly separated from nitrites and nitrate containing materials.
Biuron[®] is harmless.
Use a filter mask during industrial handling if dust is formed.
You will find further information about safety and risks in the material safety data sheet of Biuron[®].

Application:

Nutritional additive – Urea feed grade for ruminants
Start feeding the animals only small amounts!
Slowly increase the daily dose of Biuron over a period of least 10 days to no more than 30g per 100 kg live weight.
Detailed instructions for feeding are provided by all supply outlets for Biuron as well as by local support points.

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