

PRODUCT INFO  
& DATASHEET

11/2015

# UREA SR PRILLS

## Urea prills, special ruminants (SR) feedgrade

### Empirical formula:

Molecular mass:

CAS No:

EINECS-No:

**CH<sub>4</sub>N<sub>2</sub>O**

60.06 kg/kmol

57-13-6

200-315-5

### SYNONYMS

Urea feed grade for ruminants

Carbamide

Carbonyldiamide

Urea

### SPECIFICATIONS

Aspect:

Nitrogen:

Loss on drying:

Free ammonia:

Fe, Cd, As (each):

Pb:

Hg:

Biuret:

white prills

≥ 46.2% N

< 0.4%

≤ 0.02%

< 2 mg/kg

< 10 mg/kg

< 0.1 mg/kg

≤ 1.2%

Inspection method

99

108

105a

103

169

169

169

406

### PHYSICAL PROPERTIES

Bulk density:

Melting point:

Particle size distribution:

(typical values)

690 – 720 kg/m<sup>3</sup>

abt. 133° C

< 1 mm

1.0 – 1.25 mm

1.25 – 1.6 mm

1.6 – 2.0 mm

2.0 – 3.15 mm

> 3.15 mm

1% 164

2%

13%

54%

30%

< 0.3%

### PACKING

PE bags of 25 kg net on pallets, 24 MT/40ft container

Big bags of 1000 kg net

### TRANSPORT AND STORAGE

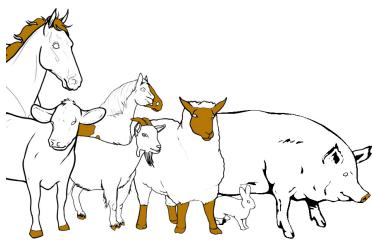
Urea SR can be characterised as having low medium flowability and shows the following characteristics:

- freshly produced Urea SR is free flowing
- storage for more than three months may cause decrease of flowability because of blocking and should be avoided. Feed safety is not affected by this behaviour
- the specified parameters can be guaranteed at least for 12 months
- vibrate blocked material before use

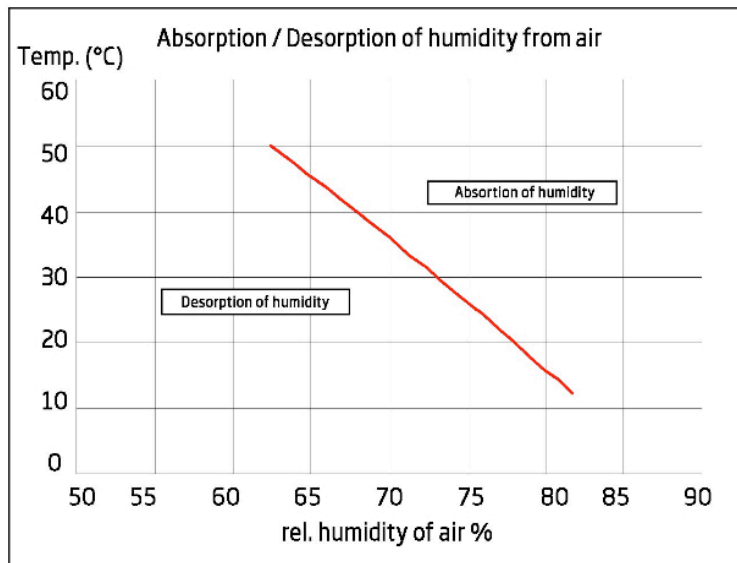
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SAP INTERNATIONAL CORPORATION bvba Krekelenberg 69, B-2980 Zoersel, Belgium  
Tel. +32-3-309.06.51 Fax. +32-3-309.19.31 Email : info@sico.be Website : www.sico.be

SICO FEEDS  
EVERY TIME THE *right* SOLUTION



Urea SR 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 Urea SR indoor on clean, dry floor protected from humidity.

Be careful in handling the product by using conveyor belts for transport into the box. In 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 Urea SR prills.

Avoid distribution by centrifugal force.

**Storage of bags:**

Store pallets indoor on a plain floor. Store not more than one pallet upon an other but then an intermediate pallet has to be used. The outside row is a single pallet for safety reasons.

Tariff-No: 3102 1010

RID/ADR/IMO: not classified, i.e. considered non hazardous material

**SAFETY**

Store and transport Urea SR strictly separated from nitrates and nitrate containing materials.

Urea SR is harmless.

Use a filter mask during industrial handling if dust is formed.

You will find further information about safety and risks in the product safety information sheet of Urea SR.

**APPLICATION**

Urea for ruminants with a functional rumen.

Urea SR shall only be fed to animals with a functional rumen. Feeding Urea to the maximum level dose should be done gradually. The maximum content of Urea should be only fed as part of diets rich in easily digestible carbohydrates and low in soluble nitrogen. A maximum 30% of total nitrogen in the daily ration should come from Urea-N.

Detailed instructions for feeding are provided by all supply outlets for Urea SR as well as by local support points.

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